

Magnitude and Frequency of Floods in the United States

Part 2-A. South Atlantic Slope Basins, James River to
Savannah River

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MAGNITUDE AND FREQUENCY OF FLOODS IN THE UNITED STATES

PART 2-A. SOUTH ATLANTIC SLOPE BASINS, JAMES RIVER TO SAVANNAH RIVER

By PAUL R. SPEER and CHARLES R. GAMBLE

ABSTRACT

This report describes a method of determining the probable magnitude and frequency of floods of any recurrence interval from 1.1 to 50 years on streams in the South Atlantic slope basins from the James River to the Savannah River.

Curves were defined which show the relation between the drainage area and the mean annual flood in five hydrologic areas, and a composite frequency curve defines the relation of a flood of any recurrence interval from 1.1 to 50 years to the mean annual flood.

These two relationships are based upon gaging-station records having 10 or more years of record not materially affected by storage or diversion, and the results obtainable from them will represent the magnitude and frequency of natural floods within the range and recurrence intervals defined by the base data.

The report also contains a compilation of flood records for all sites in the area at which five or more consecutive years of record have been collected. As far as was possible at each location for which discharge has been determined, the tabulations include all floods above a selected base. Where only gage heights have been obtained or where the data did not warrant computation of peak discharges above a selected base, only annual peaks are given.

INTRODUCTION

PURPOSE AND SCOPE

This report is one of a series that presents (1) the results of the flood-frequency analysis, which can be used to estimate magnitude and frequency of floods for most sites on streams within the area, and (2) the accumulation of flood data that have been collected at gaging stations within the area.

The area covered by this report (fig. 1) includes the South Atlantic slope basins from the James River to the Savannah River and is designated part 2-A in the annual reports entitled "Surface Water Supply of the United States," published by the U.S. Geological Survey.

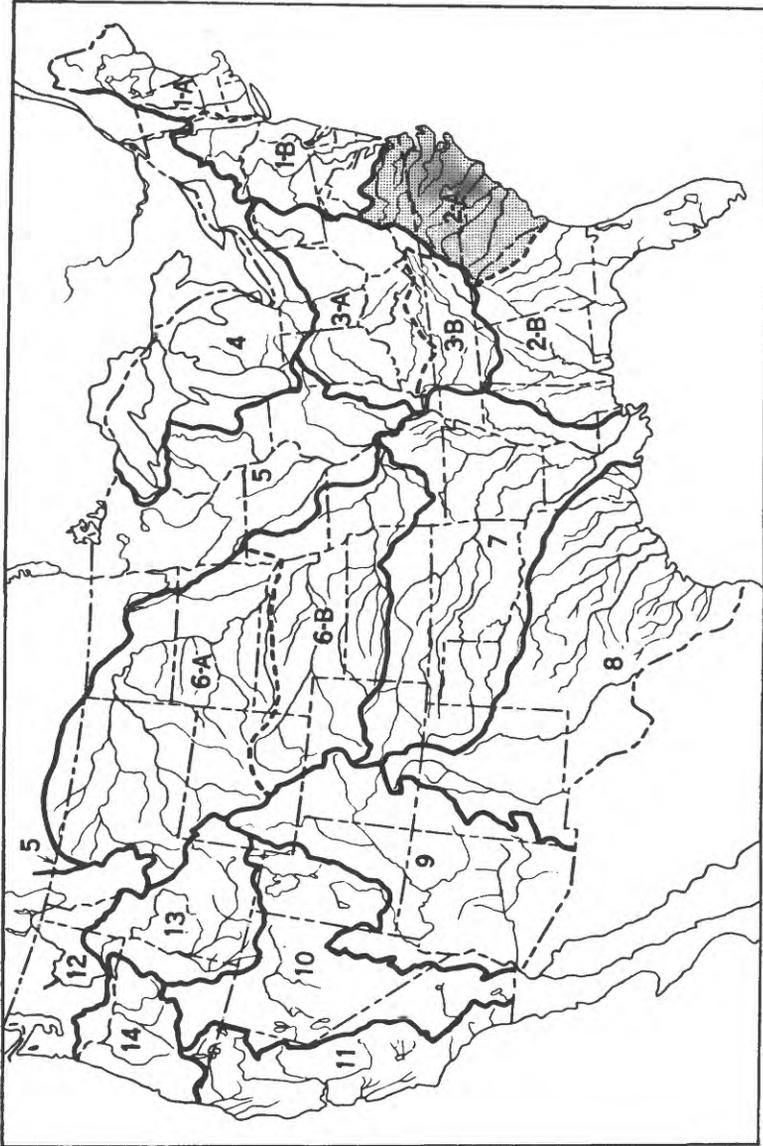


FIGURE 1.—Map of the conterminous United States showing area covered by this report.

The results present a method for determining the most probable flood magnitude for any recurrence interval between 1.1 and 50 years for any stream, gaged or ungaged, within the scope of the data and are based on a comprehensive study of all flood data available in the area. The equations and curves presented apply to all unregulated streams within the designated areas and are within the limits of probable accuracy as discussed later in the report (p. 36).

The recurrence interval of a flood of given magnitude does not imply any regularity of recurrence. For example, two 50-year floods may occur as consecutive floods or at intervals much longer than 50 years.

Although many of the flood records given in this report have been published from time to time in various reports of the U.S. Geological Survey, U.S. Army Corps of Engineers, or U.S. Weather Bureau, there is need for a summary compilation in a single volume. The report gives flood records at all sites where five or more consecutive years of record have been collected.

The report was prepared under the direction of Tate Dalrymple, chief, Floods Section. Technical guidance on analytical procedure was provided by A. Rice Green and was based on the general procedure (Dalrymple, 1960) used in flood-frequency studies. These flood records were compiled under the immediate supervision of the following district engineers: J. W. Gambrell, Charlottesville, Va., A. E. Johnson, Columbia, S.C., E. B. Rice, Raleigh, N.C., and M. T. Thomson, Atlanta, Ga.

ACKNOWLEDGMENTS

Unless otherwise noted in the individual station descriptions, the station data were collected by the U.S. Geological Survey with the assistance of many other Federal and State agencies, municipalities, corporations, and private individuals, credit for which is given in the annual series of water-supply papers entitled "Surface Water Supply of the United States."

APPLICATION OF THE METHOD

The method of computing the discharge of a flood of a selected frequency at a point on a stream is based on the two following basic relationships: (1) a curve of mean annual flood expressed as a function of size of drainage area and (2) a dimensionless curve showing the ratio of flood discharges to the mean annual flood, related to recurrence interval, in years.

MAGNITUDE OF FLOOD OF SELECTED FREQUENCY

To define the first of these relationships used to compute the discharge of a flood of a selected frequency at a point on a stream, part 2-A was divided into hydrologic areas as outlined in plate 1. The individual areas were determined by trial grouping of records having similar flood-producing characteristics, as indicated by the relation of the mean annual flood to the drainage area for stations in each of the areas. Relation curves for the five area groupings are shown on plate 2. These hydrologic-area curves do not apply to streams subject to regulation and diversions or to the main stems of streams for which individual relationships have been defined (p. 6).

The second of these basic relationships is the regional flood-frequency curve shown in figure 2.

The ratio of a flood of any selected recurrence interval to the mean annual flood can be determined from this curve, and the product of the ratio and the discharge of the mean annual flood for the point on the stream gives the expected discharge for the selected recurrence interval.

To compute the discharge of a flood of a selected frequency at a point on a stream in part 2-A:

1. Determine if the point at which the information is to be computed is on one of the main stems listed on page 6, and if so follow the procedure outlined for main-stem streams (p. 10).

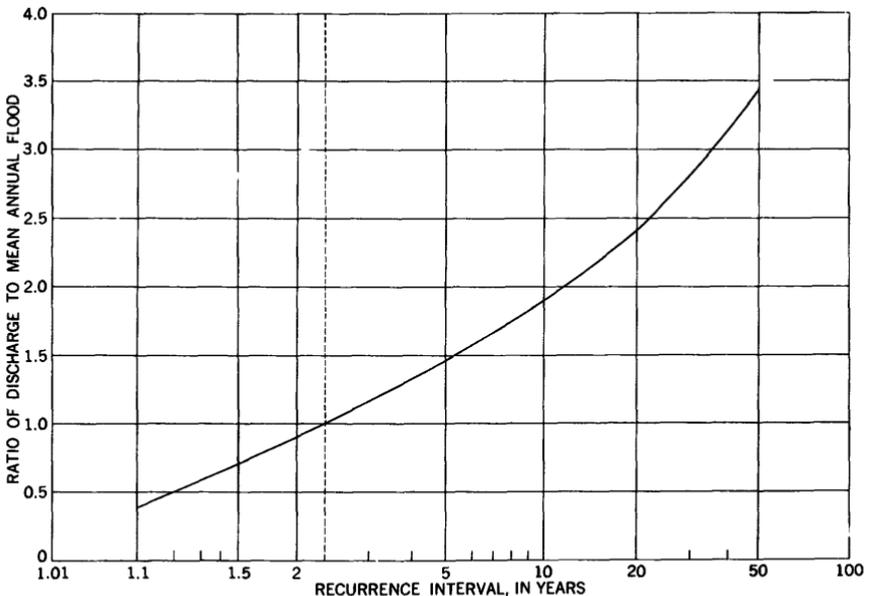


FIGURE 2.—Frequency of annual floods, 1896-1959.

2. If not listed as one of the main stems, determine the drainage area above the point for which the flood is to be computed.
3. From plate 1 obtain the number of the hydrologic area in which the point is located.
4. From plate 2 determine the discharge of the mean annual flood for the site from the appropriate hydrologic-area curve.
5. From figure 2 determine the ratio to the mean annual flood for the flood of the selected recurrence interval.
6. Multiply the discharge of the mean annual flood (step 4) by the ratio (step 5) to obtain the discharge of the flood of the selected frequency.

Owing to sparsity of basic data for drainage areas of less than 30 square miles, this method is not recommended for these smaller areas.

ILLUSTRATIVE PROBLEM

It is proposed to build a bridge across the Dan River at Pine Hall, N.C., lat $36^{\circ}19'$, long $80^{\circ}03'$, that will allow a flood of 25-year frequency to pass. How much discharge should the opening be designed to pass?

Given: Recurrence interval, 25 years.

1. From examination of the main-stem listings on page 6, Dan River is not a main stem for which an exception is listed.
2. From the best available maps, the drainage area is 481 square miles.
3. From plate 1, the point is in hydrologic area 2.
4. From plate 2, curve 2, the discharge of the mean annual flood for 481 square miles is 11,600 cfs (cubic feet per second).
5. From figure 2, the ratio of a flood of 25-year frequency to the mean annual flood is 2.62.
6. Multiplying 11,600 cfs by 2.62, the flood of 25-year recurrence interval is 30,400 cfs, the discharge for which the opening should be designed.

MAIN-STEM STREAMS

Main stems of streams may receive their flood runoff from more than one hydrologic area. Smaller tributaries generally crest earlier than larger tributaries and the main stem. The main-stem crest is the maximum summation of the main-stem flow plus the flow of the tributaries, all attenuated by channel storage. It is necessary, therefore, to develop individual relationships for main stems. These relationships may be based upon drainage area or upon miles along the stream.

In this report the mean annual flood for the following main stems is related to miles above the mouth or other point near the mouth:

James River below mouth of Cowpasture River (fig. 3), Roanoke River below mouth of Goose Creek (fig. 4), Neuse River below mouth of Little River (fig. 5), Cape Fear River below confluence of Haw and Deep Rivers (fig. 6), Pee Dee River below mouth of Pocky River (fig. 7), Catawba River below Catawba Dam (fig. 8), Wateree River throughout (fig. 8), Broad River below mouth of Pacolet River (fig. 8), Congaree River throughout (fig. 8), Santee River below confluence of Congaree and Wateree Rivers (fig. 8), and Savannah River below confluence of Tugaloo and Seneca Rivers (fig. 9).

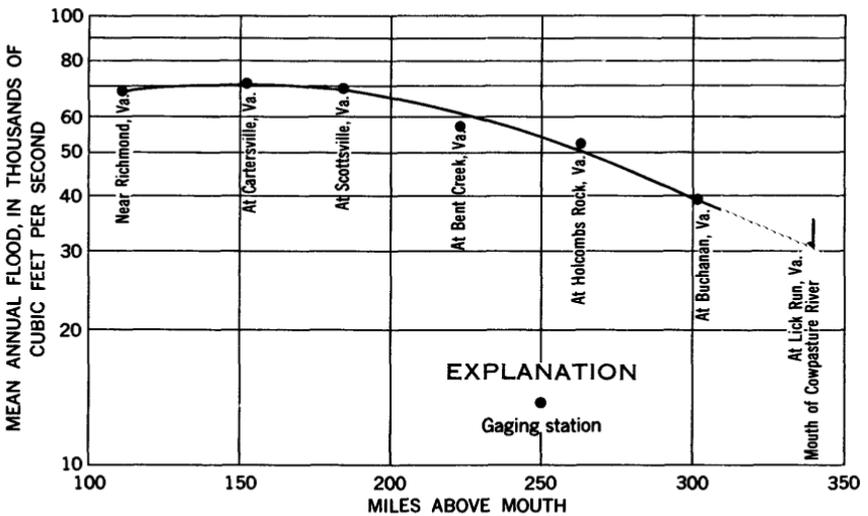


FIGURE 3.—James River, variation of mean annual flood with distance above mouth.

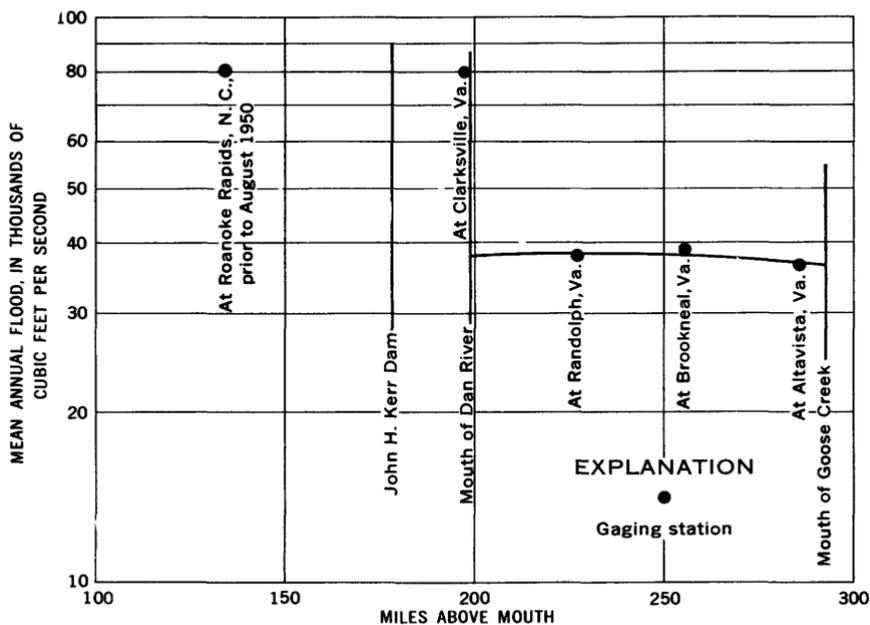


FIGURE 4.—Roanoke River, variation of mean annual flood with distance above mouth.

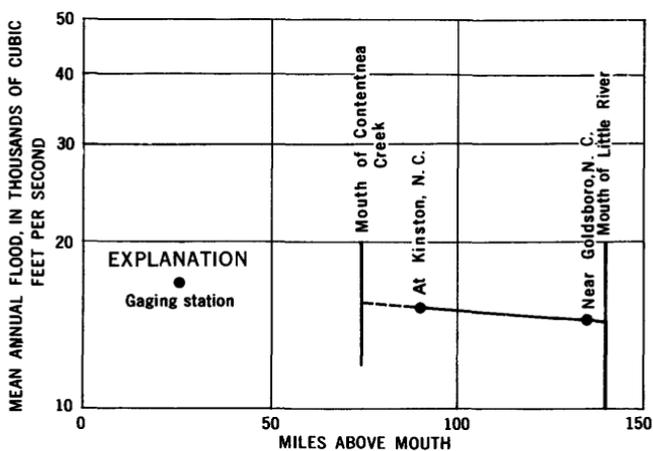


FIGURE 5.—Neuse River, variation of mean annual flood with distance above mouth.

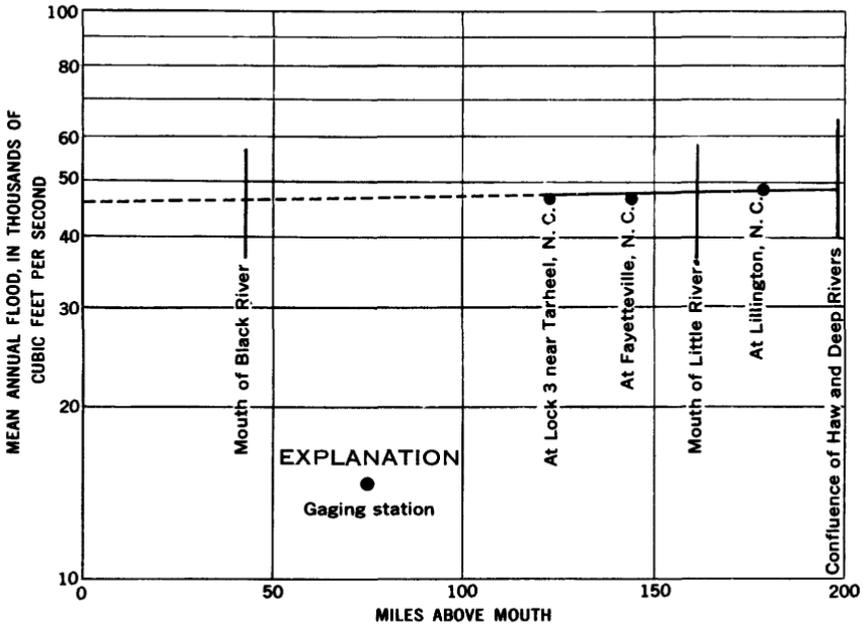


FIGURE 6.—Cape Fear River, variation of mean annual flood with distance above mouth.

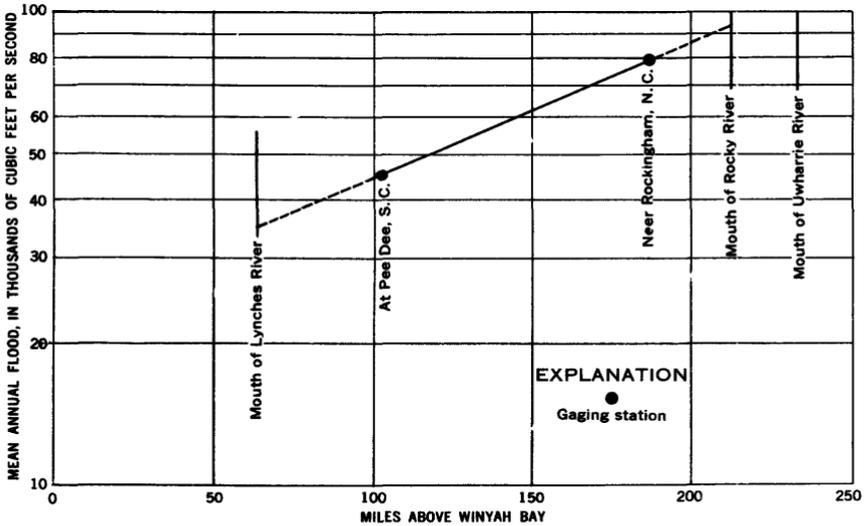


FIGURE 7.—Pee Dee River, variation of mean annual flood with distance above mouth at Winyah Bay.

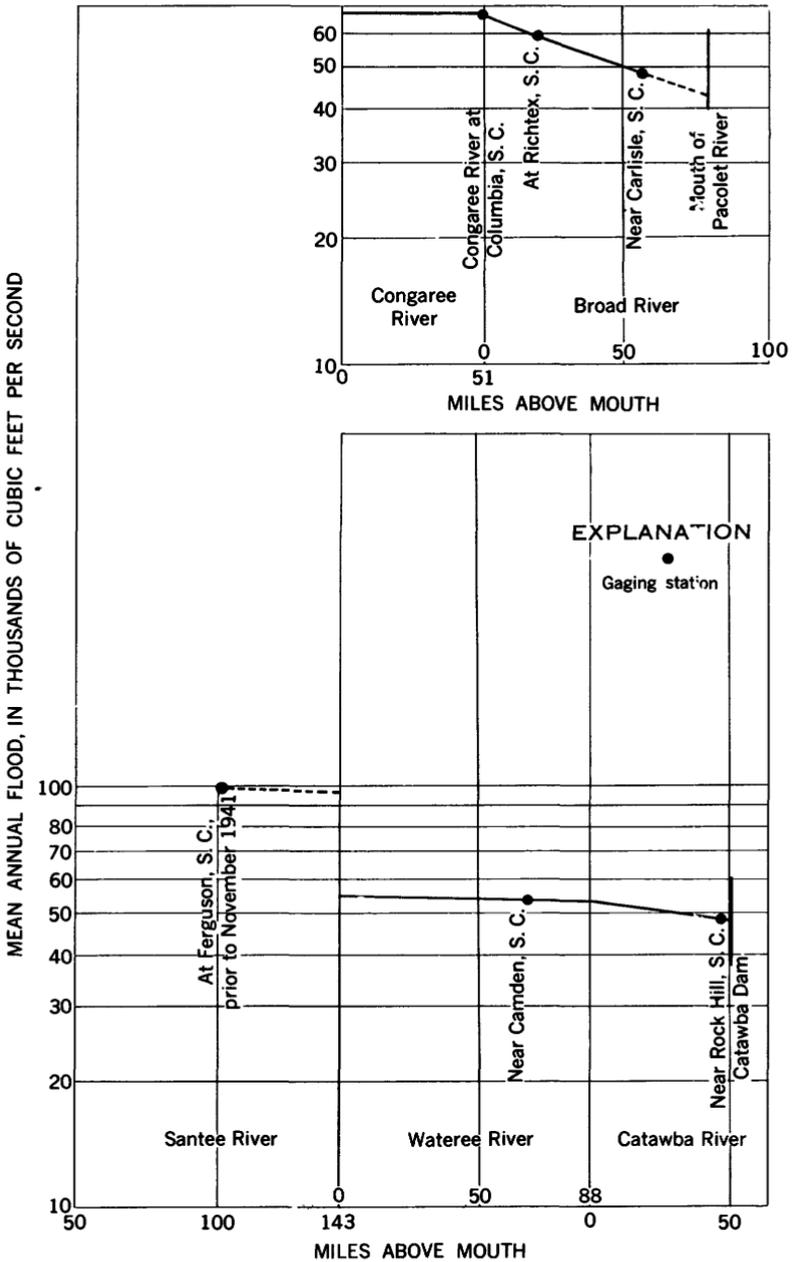


FIGURE 8.—Broad, Congaree, Catawba, Wateree and Santee Rivers, variation of mean annual flood with distance above mouth.

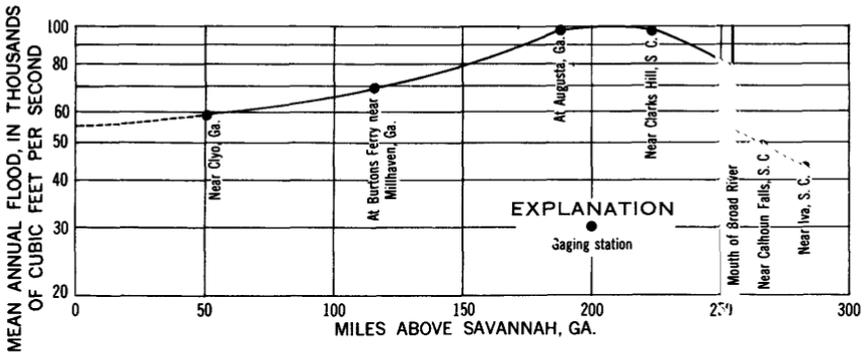


FIGURE 9.—Savannah River, variation of mean annual flood with distance above Savannah, Ga.

To determine the discharge of a flood of a selected frequency for a point on a main stem that is listed in the exceptions on page 6:

1. Determine the river mileage of the point above the mouth or other initial point shown for the appropriate main stem in figures 3-9.
2. From figures 3-9, whichever one is appropriate, determine the discharge of the mean annual flood corresponding to the river mile.
3. From figure 2, determine the ratio of the flood of the selected recurrence interval to the mean annual flood.
4. Multiply the discharge of the mean annual flood (step 2) by the ratio (step 3) to obtain the discharge of the flood of the selected frequency.

SITE FLOOD-FREQUENCY CURVE

A flood-frequency curve for a site, gaged or ungaged, covering any range of recurrence intervals between 1.1 and 50 years may be drawn by repeating steps 5 and 6 (steps 3 and 4 for main stems) for various recurrence intervals. The resulting frequency curve may not define past occurrences at the site exactly, but it does furnish a more reliable guide to what might be expected to occur in the future than a frequency curve based only on records for that one site.

If the magnitude of a flood at the site on the stream is known, the approximate recurrence interval of the flood may be estimated from the flood-frequency curve constructed for the site, as explained above.

MAXIMUM KNOWN FLOODS

A summary of maximum stages and discharges and other pertinent data for flood records in part 2-A is given in table 1. All available flood records for each station listed in the table are compiled later in this report. The stations are listed in downstream order, which corresponds to the order used in the annual reports of the Geological Survey on the surface-water supply beginning with the 1951 series. The station number consists of the essential digits of a complete number permanently assigned to the respective station by the Geological Survey. The prefix "2-A" denoting the "part" has been omitted as all stations listed are in part 2-A. In the column headed "Period of known floods" the years shown are water years beginning October 1 of the preceding calendar year.

The station number is the permanent nationwide identification number assigned to the station and is used throughout this report. The period of known floods shows the period during which the peak is known to be the maximum and does not necessarily indicate that all annual floods or floods above a selected base are known for the period. The areal mean annual flood is computed from the appropriate curve in plate 2 corresponding to the number of the hydrologic area (pl. 1) in which the station is located. The letters "MS" in the hydrologic-area column indicate that the station is on a main stem. Maximum discharges are listed in cubic feet per second, cubic feet per second per square mile, and as a ratio to the areal mean annual flood. The maximum stage known is listed as a separate entry for sites where a reasonably accurate discharge figure could not be computed for this stage.

MISCELLANEOUS FLOOD DATA

In addition to records at gaging stations, the discharge of major floods has been determined at other sites. Where other data are not available, information on isolated floods may be useful in evaluating the flood potential of an ungaged area or in estimating the approximate frequency of a known major flood. A list of peak-flow determinations at miscellaneous sites is shown in table 2. Most of these observations were made because of the occurrence of some outstanding flood event. The flood may have been extremely local in scope or may have extended over a large area, encompassing many streams. As an aid in use of the data, the hydrologic area in which the miscellaneous site occurs is given in the last column of the table.

Table 1.--Maximum stages and discharges of streams in Part 2-A

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods†	Hydro-logic area	Areal Q _{2.33} (cfs)	Date	Maximum stage and discharge		Ratio to areal Q _{2.33}
							Gage height (feet)	Discharge Cfs	
James River basin									
115	Back Creek near Mountain Grove, Va.....	131	1913,1915-59	2	4,600	March 1913	17	8,750	1.9
125	Jackson River at Falling Springs, Va.....	409	1951-59	2	10,100	Oct. 15, 1954	9.35	50,000	5.0
129	Jackson River at Covington, Va.....	440	1913,1925-59	2	10,100	March 1913	20	122	-
130	Dunlap Creek near Covington, Va.....	166	1909,1913, 1936,1950, 1952-59	2	5,450	March 1913	22	-	-
140	Potts Creek near Covington, Va.....	158	1913,1928-59	2	5,300	March 1913	18	8,370	1.5
145	Smith Creek above old dam, near Clifton Forge, Va.....	12.4	1928-59	2	5,300	Mar. 17, 1956	10.52	61.5	1.8
156	Compasture River near Headwaters, Va.....	11.3	1877,1913, 1928-56	2	-	March 1913	12.5	1,200	-
160	Compasture River near Clifton Forge, Va.....	456	1928-56	2	-	Dec. 7, 1950	7.30	500	-
165	James River at Lick Run, Va.....	1,569	1949-59	2	11,100	June 19, 1949	6.5	45,000	4.1
168	Meadow Creek near Newcastle, Va.....	3.74	1907-9,1913, 1925-59	MS	30,800	November 1977	33	120,000	3.9
170	Meadow Creek at Newcastle, Va.....	13.8	1924-59	2	-	Mar. 31, 1951	-	280	-
175	Yonns Creek at Newcastle, Va.....	106	1950-57	2	-	Aug. 1952	3.64	700	-
180	Craig Creek at Parr, Va.....	331	1926-59	2	4,000	Jan. 23, 1935	4.80	8,000	2.0
185	Catawba Creek near Catawba, Va.....	591	1955-59	2	9,900	Jan. 23, 1935	10.80	13,100	2.1
190	Catawba Creek near Pincastle, Va.....	104	1943,1949	2	1,780	August 1, 1954	13.26	5,670	3.2
194	Looney Mill Creek near Buchanan, Va.....	23.6	1913-59	2	3,950	August 1, 1928	6.59	7,700	1.9
195	James River at Buchanan, Va.....	2,084	1928-37	2	-	August 1928	14	7,200	3.2
202	Calpasture River near West Augusta, Va.....	12.8	1923,1950-59	2	38,900	Oct. 15, 1954	10.82	125,000	80.0
205	Calpasture River above Mill Creek, at Goshen, Va.....	147	1877,1885, 1889,1896-1959	MS	-	November 1877	34.9	4,800	375
210	Calpasture River at Goshen, Va.....	190	1939-59	1	6,950	June 17, 1949	6.6	14,800	2.1
215	Mauzy River at Rockbridges Baths, Va.....	329	1926-38	1	8,500	June 18, 1949	12.14	20,000	105
220	Kerrs Creek near Lexington, Va.....	54	1928-59	2	8,850	Mar. 17, 1936	11.71	33,000	3.7
225	Mauzy River near Lexington, Va.....	487	1927-59	1	2,610	Sept. 10, 1950	13.07	25,000	676
230	St. Marys River near Steels Tavern, Va.....	15.7	1925-59	2	11,700	Mar. 18, 1936	23.58	40,000	82.1
235	South River near Riverside, Va.....	111	1950-59	2	4,120	Aug. 18, 1955	6.52	2,770	176
235	South River near Riverside, Va.....	111	1956,1949-56, 1957-59	2	-	March 1936	13.7	-	-
235	South River near Riverside, Va.....	111	1949-56, 1957-59	2	-	Oct. 15, 1954	9.44	4,890	44.0

MAXIMUM KNOWN FLOODS

240	Maury River near Buena Vista, Va.....	649	1936,1938-59	2	14,200	Mar. 18, 1936	22	28,400	34.5	1.6
242	Maury River at Buena Vista, Va.....	670	1938-59		-	Sept. 10, 1950	16.2	-	-	-
243	Maury River near Glasgow, Va.....	831	1936,1938-59	2	17,000	Mar. 18, 1936	10.5	-	50.6	2.5
246	James River at Balcony Falls, Va.....	2,975	1886-1905 1936,1938, 1940,1944, 1947-59	-	-	Dec. 29, 1901	16.0	42,000	-	-
250	Pedlar River near Pedlar Mills, Va.....	91	1947-59	2	3,580	Aug. 8, 1942 ^M	14.1	11,200	123	3.1
255	James River at Holcombs Rock, Va.....	3,280	1900-1917, 1926-30, 1978,1986	MS	50,000	Mar. 28, 1915	31.3	116,000	363	2.4
257	James River at Lynchburg, Va.....	3,305	1889,1943-1959	-	-	May 26, 1771	30	-	-	-
260	James River at Bent Creek, Va.....	3,671	1870,1878, 1886,1889, 1924-59	MS	61,000	Sept. 30, 1870	27	150,000	40.9	2.5
265	Tye River at Roseland, Va.....	68	1927-38	1	4,190	Sept. 16, 1934	10.02	6,000	88.2	1.4
270	Tye River near Livingston, Va.....	92	1934,1938-59	1	2,190	Sept. 16, 1934	-	7,500	81.5	1.5
275	Piney River at Piney River, Va.....	48	1949-59	2	2,290	June 18, 1949	9.9	4,930	103	2.2
280	Buffalo River near Norwood, Va.....	360	1949-59	1	12,600	Aug. 18, 1955	18.1	33,500	93.1	2.7
285	Rockfish River near Greenfield, Va.....	96	1942-59	1	5,250	Oct. 15, 1942	23.4	30,000	313	5.7
287	Cove Creek near Covesville, Va.....	4.0	1944,1950-59	1	-	Sept. 19, 1944	9.1	2,000	500	-
290	James River at Scottsville, Va.....	4,571	1870,1877 1913,1924-59	MS	69,300	October, 1870	30.7	-	-	-
292	North Fork Hardware River at Red Hill, Va.....	11.0	1924-59	2	-	Sept. 19, 1944	26.0	133,000	29.1	1.9
294	South Branch of North Fork Hardware River near North Garden, Va.....	6.59	1950-59	2	-	Sept. 30, 1959	10.00	4,030	366	-
295	Hardware River near Scottsville, Va.....	104	1926-38	2	3,950	Sept. 30, 1959	8.86	3,050	463	-
300	Hardware River below Briery Run, near Scottsville, Va.....	116	1938-59	2	4,240	Apr. 25, 26, 1937	20.1	6,440	61.9	1.6
305	Slate River near Arwonia, Va.....	235	1926-59	3	4,900	Sept. 19, 1944	23.8	23,000	198	5.4
307	James River at Brems Bluff, Va.....	5,040	1848,1870,1878 1886,1889,1894, 1901,1915,1924, 1935,1946,1959	3	-	Sept. 6, 1935	22.18	13,600	57.9	2.8
310	Mechum River near Ivy, Va.....	97	1842,1951-59	2	3,750	September, 1870	37.4	-	-	-
315	North Fork Roanoke River near Whiteshall, Va.....	11	1942,1951-59	2	6,600	Oct. 15, 1942	30.3	20,000	208	5.3
325	South Fork Roanoke River near Whiteshall, Va.....	216	1942,1951-59	2	6,600	Oct. 15, 1942	11.7	7,250	668	-
327	Schenks Branch at Charlottesville, Va.....	1.34	1950-59	2	-	Oct. 18, 1942	33	30,200	140	4.6
335	Rivanna River below Moores Creek, near Charlottesville, Va.....	507	1926-34,1943	2	12,000	Aug. 18, 1956	26.1	63,000	516	-
340	Rivanna River at Palmyra, Va.....	675	1933-59	2	14,700	July 20, 1956	8.60	63,000	124	5.2
341	James River at Columbia, Va.....	5,744	1870,1893, 1904-59	-	-	October, 1942	-	78,000	116	5.3
342	Willis River at Curdsville, Va.....	42.3	1950-59	4	770	Oct. 16, 1942	36.5	-	-	-

† Period in water years for which the listed flood is the maximum.
a Probably exceeded by flood of May, 1942.

Table 1.--Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods†	Hydro-logic area	Areal Q _{2.33} (cfs)	Maximum stage and discharge			Ratio to areal Q _{2.33}
						Date	Gage height (feet)	Discharge Cfs		Cfs per sq mi
James River basin--Continued									
343	Little Mills River at Curdsville, Va.....	7.07	1951-59	3	-	Aug. 18, 1955	6.26	583	79.6
345	Mills River at Fingan Mills, Va.....	247	1926-59	4	3,180	Apr. 27, 1937	23.86	9,580	36.6
350	James River at Cartersville, Va.....	6,282	1877, 1896-1899	MS	71,000	November 1877	50.4	-	-
358	James River at State Farm, Va.....	-	1893-1959	-	-	Sept. 20, 1944	29.6	180,000	26.6
365	Fine Creek at State Farm, Va.....	-	1924-50,	-	-	Sept. 20, 1944	26.4	-	-
365	Fine Creek at Fine Creek Mills, Va.....	23	1944-59	4	-	Aug. 18, 1955	7.00	2,010	87.4
375	James River near Richmond, Va.....	6,757	1934-59	MS	66,000	Aug. 4, 1948	7.00	-	-
377	James River at Richmond, Va.....	-	1771, 1870, 1877	-	-	Max. 19, 1936	23.42	175,000	25.9
			1686, 1889,			May 27, 1771	29.0	-	-
			1893-95,						
			1897-1959						
378	Falling Creek near Middlethian, Va.....	18.1	1951-59	4	-	Aug. 18, 1955	7.50	943	52.1
380	Falling Creek near Chesterfield, Va.....	32.8	1955-59	4	630	Aug. 18, 1955	-	2,000	61.0
			1955-59			Aug. 4, 1958	10.07	855	26.1
385	Falling Creek near Drewrys Bluff, Va.....	54	1942-59	4	940	July 18, 1945	10.1	7,270	135
388	Appomattox River near Appomattox, Va.....	5.79	1955-59	3	-	Sept. 30, 1959	5.84	670	116
390	Buffalo Creek near Hampden Sydney, Va.....	70	1940, 1946-59	2	2,980	August 1940	15	-	-
395	Appomattox River at Fattsville, Va.....	506	1946-59	3	6,000	Aug. 18, 1955	9.00	6,440	92.0
400	Appomattox River at Mattoax, Va.....	729	1900-59	4	7,600	Aug. 15, 1940	23.60	21,000	68.6
			1926-59			Aug. 18, 1940	35.3	35,000	48.0
405	Flat Creek near Amelia, Va.....	73	1947, 1954-59	3	2,020	Aug. 18, 1955	9.13	3,200	43.8
410	Deep Creek near Mannboro, Va.....	156	1940, 1946-59	3	3,600	August 1940	14.8	10,000	64.1
415	Appomattox River near Petersburg, Va.....	1,335	1926-59	5	7,000	Aug. 20, 1940	18.15	28,000	21.0
420	Swift Creek near Chester, Va.....	1.83	1940, 1944-49	5	1,030	July 18, 1945	29.0	13,200	92.3
422	Glebe Creek tributary near Charles City, Va.....	249.7	1948, 1951-59	5	-	May 26, 1948	4.64	555	79.5
425	Chickahominy River near Providence Forge, Va.....	2.64	1942-59	5	1,650	Aug. 15, 1955	11.67	7,710	50.9
427	Collins Run near Providence Forge, Va.....	2.84	1946, 1950-59	5	-	May 26, 1948	7.4	1,630	574
Dismal Swamp basin									
430	Lake Drummond in Dismal Swamp, Va.....	-	1926-59	-	-	Feb. 9, 1957	6.20	-	-
435	Cypress Swamp at Cypress Chapel, Va.....	23	1940, 1953-59	5	-	August 1940	10.2	-	-
			1953-59			Sept. 20, 1955	6.65	1,190	51.7
435.5	Folly Swamp near Stunbury, N. C.....	3.43	1953-58	5	-	Sept. 20, 1955	24.69	340	99.1
Chowan River basin									
440	Nottoway River near Burkeville, Va.....	38	1940-59	2	1,930	August 1940	27.4	-	-
445	Nottoway River near Rawlings, Va.....	323	1946-59	4	3,950	Aug. 18, 1955	19.06	3,320	87.4
			1940, 1950-59			August 1940	20.8	19,000	58.8

MAXIMUM KNOWN FLOODS

450	Nottoway River near McKenney, Va.....	362	1940, 1945-50	4	4,320	August 1940	32.1	20,000	55.3
455	Nottoway River near Stony Creek, Va.....	586	1949-50	4	6,350	Feb. 15, 1948	16.8	25,320	14.9
460	Stony Creek near Dinwiddie, Va.....	111	1940, 1946-59	4	1,660	Aug. 17, 1940	23.66	5,200	4.0
465	Anderson Branch at Sussex, Va.....	5.4	1949-56	5	-	August 1950	6.12	8,000	4.8
470	Nottoway River near Seabell, Va.....	1,451	1940, 1941-59	5	7,400	Sept. 12, 1950	29.7	228	72.1
475	Blackwater River near Dendron, Va.....	285	1940, 1942-59	5	1,860	August 1940	13.1	48,000	33.1
480	Blackwater River at Zuni, Va.....	448	1940, 1943-59	5	2,720	August 1940	23.2	10,000	5.4
484	Seacock Creek near Ivor, Va.....	27.4	1950-59	5	-	May 6, 1958	6.33	16,000	35.7
485	Seacock Creek at Unify, Va.....	102	1943-49	5	780	July 23, 1945	89.44	7,000	24.5
495	Blackwater River near Franklin, Va.....	613	1940, 1942-59	5	3,580	Sept. 19, 1945	22	1,180	11.6
497	Cypress Swamp near Bardette, Va.....	8.55	1950-59	5	-	August 6, 1940	6.17	21,000	34.2
505	North Meherrin River near Keyville, Va.....	9.2	1940, 1946-59	2	-	August 10, 1940	10.3	197	23.0
510	North Meherrin River near Lunsenburg, Va.....	60	1947-59	2	2,680	Apr. 14, 1945	7.28	1,320	143
515	Moherrin River near Lawrenceville, Va.....	553	1873-1959	4	6,100	Sept. 17, 1957	48	4,160	69.3
517	Rocky Run at Lawsville, Va.....	6.16	1954-59	4	-	Oct. 17, 1940	20.80	36,000	68.8
520	Moherrin River at Emporia, Va.....	749.6	1873-1959	4	7,750	Oct. 29, 1956	46.0	40,000	53.4
525	Fontaine Creek near Brink, Va.....	68.6	1940, 1953-59	4	1,130	August 1940	18.5	2,720	39.7
530	Fontaine Creek near Emporia, Va.....	96.7	1944-53	4	1,430	July 19, 1945	10.58	3,500	36.5
531.1	Wildcat Swamp near Jackson, N. C.....	11.8	1952-59	5	-	May 7, 1958	25.97	700	397
531.7	Catawawickie Creek near Woodland, N. C.....	64.3	1940, 1950-59	5	525	Sept. 5, 1955	22.61	700	59.3
535	Ahoskie Creek at Ahoskie, N. C.....	8.89	1950-59	5	-	August 1940	11.1	1,420	22.1
535.3	Chinlepin Swamp near Colerain, N. C.....	8.89	1952-59	5	-	Sept. 22, 1955	8.77	1,420	22.1
						Sept. 20, 1955	23.17	7,770	86.6

Roanoke River basin

545	Roanoke River at Lafayette, Va.....	257	1940, 1945-59	2	7,450	August 1940	12.2	19,000	74.0
550	Roanoke River at Roanoke, Va.....	398	1877, 1897-1959	2	10,000	Aug. 14, 1940	18.25	26,400	68.0
560	Roanoke River at Niagara, Va.....	511	1926-59	2	12,000	Aug. 14, 1940	17.5	35,000	69.5
570	Blackwater River near Union Hall, Va.....	208	1924-59	2	6,400	Aug. 14, 1940	18.52	19,700	94.7
575	Roanoke (Staunton) River near Toches, Va.....	1,020	1935-44	2	19,700	Aug. 14, 1940	27.36	70,000	68.6
580	Snow Creek at Sago, Va.....	60	1955-59	2	12,660	Aug. 14, 1940	22.96	32,000	200
585	Pegg River near Toches, Va.....	384	1924, 1926-59	2	10,100	Aug. 14, 1940	32.5	34,500	27.1
590	Roanoke (Staunton) River near Gretna, Va.....	1,450	1924, 1926-59	2	25,000	Aug. 14, 1940	29.2	35,700	1.4
595	Goose Creek near Huddleston, Va.....	187	1929-59	2	5,950	August 1928	35.3	20,300	10.8
605	Roanoke (Staunton) River at Altavista, Va.....	1,802	1930-59	MS	37,000	Oct. 19, 1937	25.75	20,300	3.4
610	Otter River near Bedford, Va.....	1,116	1937 or 1939	2	4,240	Aug. 15, 1940	40.08	105,000	58.3
613	Mininger Creek near Bedford, Va.....	4.77	1940, 1943-59	2	-	1937 or 1939	21.8	-	-
615	Otter River near Edwington, Va.....	325	1943-59	2	8,800	Mar. 23, 1949	17.3	12,100	104
620	Otter River near Altavista, Va.....	372	1949-59	2	9,650	Mar. 23, 1949	7.7	2,200	461
625	Roanoke (Staunton) River at Brookneal, Va.....	2,420	1936-59	2	38,000	Oct. 19, 1937	23.12	27,500	84.6
†	Period in water years for which the listed flood is the maximum.		1929-38	2	9,650	Aug. 19, 1937	26.8	28,000	75.3
‡	Affected by backwater from Blackwater River.		1878-1959	MS	38,000	Oct. 19, 1937	46.5	130,000	53.7

Table 1.--Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and face of determination	Drainage area (sq mi)	Period of known floods†	Hydro-logic area	Areal Q _{2.33} (cfs)	Date	Maximum stage and discharge		Ratio to areal Q _{2.33}
							Gage height (feet)	Discharge Cfs	
Roanoke River basin--Continued									
635	Falling River at Spring Mills, Va.....	52.2	1940,1954-59	2	2,420	August 1940	19.2	9,500	3.9
640	Falling River near Naruna, Va.....	172	1929-34, 1940-59	2	5,600	August 1940	26.5	22,000	3.9
645	Little Falling River at Hat Creek, Va.....	43	1929-34	2	2,100	Mar. 6, 1932	18.0	2,300	1.1
650	Falling River near Brookneal, Va.....	228	1934-41	2	6,800	Aug. 15, 1940	29.35	23,000	3.4
655	Cub Creek at Phenix, Va.....	102	1940,1946-59	3	2,610	August 1940	17.5	4,000	1.5
660	Roanoke (Staunton) River at Randolph, Va.....	3,000	1877,1900-1959	MS	39,500	Aug. 16, 1940	41.6	150,000	3.9
665	Roanoke Creek at Saxe, Va.....	162	1940,1946-59	3	3,700	Aug. 16, 1940	25.7	150,000	1.3
670	Roanoke (Staunton) River near Clover, Va.....	3,120	1929-52	MS	39,500	Aug. 18, 1955	13.58	4,710	4.2
685	Dan River near Francisco, N. C.....	124	1916,1924-59	2	4,490	Aug. 16, 1940	37.15	160,000	2.8
686.1	Vade Mecum Creek tributary near Moores Springs, N. C.	.31	1924-59	2	-	Oct. 19, 1937	15.4	12,400	100
686.6	Little Snow Creek near Lawsonville, N. C.....	5.44	1953-59	2	-	Apr. 14, 1955	20.28	1,66	536
680.3	Belews Creek near Kernersville, N. C.....	14.9	1953-59	2	-	July 1955	22.01	810	149
700	North Mayo River near Spencer, Va.....	108	1928-59	2	4,020	Oct. 15, 1955	23.98	1,760	118
705	Mayo River near Price, N. C.....	260	1929-59	2	7,500	Oct. 9, 1947	15.80	17,200	189
708.1	Jacobs Creek near Wentworth, N. C.....	16.2	1953-59	2	-	Oct. 19, 1937	18.00	30,000	115
710	Dan River near Wentworth, N. C.....	1,050	1908,1937, 1939-59	2	20,000	Oct. 15, 1954	28.94	5,290	326
718	Nicholas Creek near Ferrum, Va.....	14	1939-59	1	-	Sept. 18, 1945	27.78	56,800	54.1
720	Smith River near Rialto, Va.....	212	1942-59	1	8,900	June 28, 1949	23.7	1,800	845
725	Smith River at Martinsville, Va.....	233	1942-59	1	10,000	June 28, 1949	22.9	1,800	118
730	Smith River at Martinsville, Va.....	374	1929-59	1	13,000	Oct. 19, 1937	22.9	36,200	191.2
735	Leatherwood Creek near Old Liberty, Va.....	66	1925-34	1	4,190	Oct. 19, 1937	21.50	39,000	104
740	Sandy River at Spray, N. C.....	113	1929-59	2	16,400	Aug. 11, 1928	14.37	2,970	43.7
745	Dan River at Danville, Va.....	2,050	1892-1959	2	32,000	Aug. 15, 1940	19.23	45,600	84.8
750	South Country Lane Creeks near Hightowers, N. C.....	7.13	1953-59	2	1,620	Aug. 14, 1940	17.38	23,000	204.8
751.6	South Country Lane Creeks near Hightowers, N. C.....	29.9	1953-59	2	-	Aug. 15, 1940	20.98	75,000	36.6
752.3	South Country Lane Creeks near Hightowers, N. C.....	2,650	1953-59	2	-	July 12, 1955	22.12	3,050	102
755	Dan River at Faces, Va.....	2,650	1940,1950-59	3	28,800	July 12, 1955	22.12	2,380	337
759	Lawsons Creek at Turbeville, Va.....	8.7	1950-59	3	-	Aug. 16, 1940	32.3	-	-
760	Dan River at South Boston, Va.....	2,730	1951-59	3	-	Oct. 17, 1954	25.40	34,000	13.3
765	Georges Creek near Gretna, Va.....	9.2	1900-1908, 1924-52	3	-	Sept. 17, 1957	11.56	1,200	138
770	Banister River at Halifax, Va.....	552	1949-59	3	440	Aug. 16, 1940	31.8	81,000	29.7
772.1	Cobbs Creek tributary near Leesburg, N. C.....	1	1953-59	4	-	Sept. 15, 1950	6.48	1,100	120
773.1	Storys Creek near Roxboro, N. C.....	2.04	1953-59	4	-	Sept. 20, 1944	40.8	50,000	90.6
						March 1957	20.55	88	88
						Sept. 30, 1955	20.95	350	171

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775	Hyco River near Denniston, Va.....	289	1928, 1930-33, 1945, 1950-59	4	3,600	August	1928	26.4	-	-	
780	Hyco River near Omega, Va.....	413	1934-50	4	4,800	Sept. 20, 1945	1945	28.44	11,900	28.8	
790	Roanoke (Staunton) River at Clarksville, Va.....	7,520	1877, 1892-1952	MS	80,000	Aug. 17, 1940	1940	36.66	280,000	36.8	
795	Roanoke River at Buggs Island, Va.....	7,780	1840, 1941-59	MS	-	August, 1940	1940	33.9	76,000	9.77	
796	Jolly Holly Branch at Boydton, Va.....	3.60	1954-59	4	-	June 2, 1956	1956	14.77	-	-	
805	Roanoke River at Roanoke Rapids, N. C.....	8,410	1877, 1889, 1911-59	MS	80,000	Aug. 16, 1940	1940	39.10	261,000	31.0	
810	Roanoke River near Scotland Neck, N. C.....	8,700	1877, 1912, 1919, 1924-25, 1936, 1940-59	MS	80,000	Aug. 19, 1940	1940	41.88	260,000	29.9	
810.54	Roanoke River at Williamston, N. C.....	9,070	1877, 1912, 1919, 1923-24, 1928,	-	-	Aug. 22, 1940	1940	20.5	-	-	
810.6	Smithwick Creek tributary near Williamston, N.C.	.92	1930-59	-	-	Sept. 20, 1955	1955	23.86	250	272	
811.1	White Oak Swamp near Windsor, N. C.....	17.1	1952-59	5	-	Sept. 20, 1955	1955	20.68	1,450	84.8	
			1952-59	5	-						
Pamlico River basin											
812.1	Shelton Creek near Oxford, N. C.....	22.6	1953-59	2	-	Aug. 17, 1955	1955	21.39	13,100	-	
815	Tar River near Kitter, N. C.....	16	1939-59	2	5,450	Aug. 10, 1952	1952	19.05	2,050	78.4	
817.1	Long Creek at Kitter, N. C.....	3.26	1952-59	2	-	May 26, 1958	1958	18.05	2,240	32.2	
818	Tar Creek near Lewisburg, N. C.....	47.8	1952-59	2	2,270	May 2, 1958	1958	16.96	16,900	46.8	
820	Tar River near Nashville, N. C.....	701.8	1928-59	4	7,500	Dec. 3, 1934	1934	20.8	16,900	24.1	
825	Sapony Creek near Nashville, N. C.....	64.8	1950-59	4	1,080	Jan. 24, 1958	1958	14.34	2,200	53.9	
825.26	Tar River at Rocky Mount, N. C.....	803	1908, 1910-59	4	-	August, 1908	1908	19.0	-	2.0	
825.4	Wildcat Branch near Mapleville, N. C.....	.35	1953-59	4	-	July, 1953	1953	25.00	175	500	
828.3	Harts Mill Run near Tarboro, N. C.....	8.59	1953-59	4	-	Sept. 3, 1955	1955	21.94	460	53.7	
828.5	Fishing Creek near Warrenton, N. C.....	44.7	1953-59	4	810	Sept. 3, 1955	1955	23.17	5,300	118	
830	Fishing Creek near Enfield, N. C.....	521	1910-59	4	5,800	Apr. 19, 1910	1910	20.1	-	6.5	
830.9	Beaverdam Swamp near Heathsville, N. C.....	9.44	1952-59	4	-	May 6, 1958	1958	23.14	1,520	161	
834.1	Deep Creek near Scotland Neck, N. C.....	11.7	1952-59	4	-	Sept. 5, 1955	1955	19.25	2,300	197	
835	Tar River at Tarboro, N. C.....	2,140	1896-1959	4	18,000	July 27, 1919	1919	34.0	52,800	24.7	
840	Tar River at Greenville, N. C.....	2,620	1887, 1905-59	4	-	July 28, 1919	1919	24.5	46,500	17.7	
842.4	Collie Swamp near Everetts, N. C.....	29.0	1952-59	5	-	Sept. 20, 1955	1955	23.02	1,900	65.5	
845	Herring Run near Washington, N. C.....	15	1946, 1950-59	5	-	Sept. 19, 1946	1946	17.0	-	-	
845.2	Upper Goose Creek near Yatesville, N. C.....	1.49	1952-59	5	-	Sept. 19, 1955	1955	14.77	548	36.5	
845.7	Acres Swamp near Pinetown, N. C.....	32.3	1952-59	5	292	Sept. 20, 1955	1955	24.00	300	201	
			1952-59	5	-	Sept. 21, 1955	1955	24.46	2,950	91.6	
Neuse River basin											
850	Enc River at Hillsboro, N. C.....	66.5	1927-59	2	2,870	Sept. 18, 1945	1945	20.01	11,000	165	
850.2	Stony Creek tributary near Hillsboro, N. C.....	1.12	1952-59	2	-	March	1953	23.6	230	205	
851.9	North Fork Little River tributary near Rousemont, N. C.	1.43	1952-59	2	-	June 5, 1957	1957	22.36	207	145	
855	wiat River at Pahaama, N. C.....	150	1925-59	2	5,100	July 26, 1938	1938	-	20,000	133	
860	Dial Creek near Bahama, N. C.....	4.71	1925-59	2	-	May 24, 1940	1940	7.60	-	-	
865	Flat River at dam near Bahama, N. C.....	171	1927-59	2	5,600	July 26, 1938	1938	19.50	19,700	115	
870	Neuse River near Northside, N. C.....	526	1927-59	2	12,300	Sept. 18, 1945	1945	31.02	36,600	69.6	
870.3	Lick Creek near Durham, N. C.....	13.6	1953-59	2	-	Aug. 17, 1955	1955	21.14	1,040	76.5	
871.4	Lower Barton Creek tributary near Raleigh, N. C.	.63	1953-59	2	-	May 11, 1957	1957	23.08	248	394	

† Period in water years for which the listed flood is the maximum.

Table 1.-Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods ^a	Hydro-logic area	Areal Q _{2.33} (cfs)	Date	Maximum stage and discharge			Ratio to areal Q _{2.33}
							Gage height (feet)	Cfs	Cfs per sq mi	
Neuse River basin--Continued										
871.91	Neuse River near Neuse, N. C.	790	1908, 1911-59	2	-	Sept. 21, 1945	26.0	-	-	-
872.4	Stirrups Iron Creek tributary near Nelson, N. C.	.25	1952-59	4	10,800	Aug. 31, 1952	50.5	172	688	-
875	Neuse River near Clayton, N. C.	1,140	1919, 1927-59	4	-	Sept. 19, 1945	22.12	22,900	20.1	2.1
875.68	Neuse River at Smithfield, N. C.	1,200	1908, 1911-59	4	-	Oct. 5, 1929	26.5	-	-	-
875.8	Swift Creek near Apex, N. C.	19.5	1953-59	4	-	May 11, 1957	24.02	3,150	162	-
879.1	Middle Creek near Holly Springs, N. C.	8.23	1953-59	4	-	Sept. 3, 1955	24.81	1,070	130	-
						Sept. 26, 1956				
880	Middle Creek near Clayton, N. C.	80.7	1939-59	4	1,300	Sept. 4, 1955	13.14	5,400	66.9	4.2
881.4	Stone Creek near Newton Grove, N. C.	27.9	1952-59	5	-	Aug. 17, 1955	22.50	1,150	41.2	-
882.1	Hannah Creek near Benson, N. C.	2.59	1952-59	5	-	June 5, 1959	23.17	808	312	-
884.2	Long Creek near Selma, N. C.	6.87	1952-59	4	-	January 1954	22.86	1,650	240	-
885	Little River near Princeton, N. C.	229	1919, 1924, 1928-59	4	2,990	September 1924	14.90	9,500	41.5	3.2
890	Neuse River near Goldsboro, N. C.	2,390	1923-59	MS	14,400	Oct. 5, 1929	27.3	38,600	16.2	2.7
895	Neuse River at Kinston, N. C.	2,690	1919-59	MS	15,300	July 1929	25.0	39,000	14.5	2.5
905	Contentnea Creek near Wilson, N. C.	236	1924, 1930-54	4	3,060	September, 1924	22.2	-	-	-
			1930-54			Aug. 27, 1940	13.80	-	-	-
905.6	Lee Swamp tributary near Lucama, N. C.	2.83	1952-59	4	-	Sept. 15, 1954	23.49	4,940	20.9	1.6
907.6	Whitetail Swamp tributary near Wilson, N. C.	2.80	1952-59	4	-	Sept. 14, 1955	22.38	3,320	113	-
909.6	Nanuta Swamp near Pileville, N. C.	19.0	1953-59	5	-	Sept. 19, 1955	19.42	500	192	-
914	Shepherd Run near Snow Hill, N. C.	77.6	1954-59	5	615	Sept. 20, 1955	12.37	420	22.6	-
914.3	Contentnea Creek at Hookerton, N. C.	1.47	1952-59	5	-	Sept. 19, 1955	20.81	2,050	26.4	3.3
915	Contentnea Creek near Fort Barmwell, N. C.	729	1924, 1923-59	5	4,140	September 1928	23.3	148	101	-
918.1	Halfmoon Creek near Fort Barmwell, N. C.	4.87	1928-59	5	-	Oct. 6, 1929	18.9	11,100	15.2	2.7
920	Swift Creek near Vanceboro, N. C.	182	1909, 1928, 1950-59	5	1,270	Sept. 19, 1955	21.67	1,600	328	-
920.2	Palmetto Swamp near Vanceboro, N. C.	24.2	1950-59	5	-	Sept. 22, 1955	13.67	6,060	33.3	4.8
921.2	Batchelders Creek near New Bern, N. C.	33.6	1952-59	5	303	Sept. 20, 1955	26.14	3,700	153	-
922.9	Rattlesnake Branch (formerly Tuckahoe Swamp tributary) near Comfort, N. C.	3.35	1952-59	5	-	Sept. 20, 1955	23.58	7,000	208	23.1
925	Trent River near Trenton, N. C.	168	1929, 1951-59	5	1,180	Sept. 19, 1955	25.50	630	188	-
925.2	Vine Swamp near Kinston, N. C.	5.64	1952-59	5	-	Sept. 21, 1955	17.84	9,100	54.2	7.7
926.2	Upper Broad Creek tributary near Grantsboro, N. C.	3.31	1952-59	5	-	Sept. 19, 1955	25.71	840	149	-
						Sept. 20, 1955	22.99	800	242	-
White Oak River basin										
927.2	White Oak River at Beigrade, N. C.	53.3	1952-59	5	450	Sept. 20, 1955	23.49	8,900	167	19.8
927.8	Bell Swamp (formerly Queens Creek tributary) near Hubert, N. C.	4.95	1952-59	5	-	Sept. 20, 1955	25.70	1,320	267	-

MAXIMUM KNOWN FLOODS

New River basin

930	New River near Gum Branch, N. C.	74.5	1909, 1949-59	5	595	Sept. 20, 1955	19.99	7,900	106	13.3
930.4	Southwest Creek tributary near Jacksonville, N. C.	1.00	1952-59	5	-	Sept. 19, 1955	22.50	282	282	-
930.7	Southwest Creek near Jacksonville, N. C.	26.9	1952-59	5	-	Sept. 20, 1955	26.9	5,500	204	-
Cape Fear River basin										
932.9	Haw River near Summerfield, N. C.	26.3	1953-59	4	-	Oct. 15, 1954	24.20	1,310	49.8	-
935	Haw River near Benita, N. C.	169.9	1916, 1929-59	4	2,320	Sept. 25, 1947	19.22	12,300	73.2	5.3
940	Horsepen Creek at Battle Ground, N. C.	15.9	1925-30, 1934-59	3	-	Sept. 24, 1947	10.36	6,400	402	-
945	Reedy Fork near Gibsonville, N. C.	133	1916, 1929-59	3	3,200	Sept. 25, 1947	20.77	11,600	87.2	3.6
950	North Buffalo Creek near Greensboro, N. C.	33.6	1928-59	2	1,760	July 15, 1949	11.54	10,000	299	5.7
955	South Buffalo Creek near Greensboro, N. C.	37.0	1928-59	2	1,900	Sept. 25, 1947	15.96	6,000	162	3.2
960	Stony Creek near Burlington, N. C.	44.2	1952-59	4	800	Oct. 16, 1954	15.26	-	-	-
965	Haw River at Haw River, N. C.	59.9	1928-59	4	13,500	Sept. 18, 1945	31.20	37,000	61.8	2.7
966.6	Rock Creek near Whiteset, N. C.	14.4	1953-59	2	-	Oct. 15, 1954	24.04	5,860	407	-
967.4	Gun Branch near Alamance, N. C.	5.02	1953-59	2	-	Oct. 15, 1954	19.15	1,590	317	-
970	Haw River near Pittsboro, N. C.	1,310	1865, 1908, 1928-59	2	23,300	August, 1908	32.1	98,000	74.8	4.2
970.1	Robeson Creek near Pittsboro, N. C.	1.13	1953-59	2	-	Oct. 15, 1954	24.60	400	354	-
975	Morgan Creek near Chapel Hill, N. C.	29.1	1922-52	3	-	Aug. 4, 1924	25.0	30,000	1031	-
979.1	White Oak Creek near Wilsonville, N. C.	23.6	1952-59	3	5,600	Feb. 7, 1954	24.00	1,620	68.7	-
980	New Hope River near Pittsboro, N. C.	285	1908, 1929, 1945 1949-59	3	-	September 1945	27.65	-	-	-
981.87	Haw River at Moncure, N. C.	1,700	1899, 1904-45	1	-	Mar. 5, 1952	19.74	7,900	27.7	1.4
985	West Fork Deep River near High Point, N. C.	32.1	1923-59	1	2,510	Sept. 18, 1945	38.0	8,450	283	3.4
990	East Fork Deep River near High Point, N. C.	14.7	1928-59	1	6,230	Sept. 24, 1947	10.87	6,300	428	-
995	Deep River nearandleman, N. C.	124	1928-59	1	-	Sept. 25, 1947	32.2	20,000	151	5.2
1000	Muddy Creek near Archdale, N. C.	16.2	1934-41	1	12,200	June 28, 1938	10.46	2,180	134	-
1005	Deep River at Rameur, N. C.	346	1901, 1922-59	1	6,960	Sept. 18, 1945	34.04	43,000	124	5.5
1010	Bear Creek at Robbins, N. C.	194	1939-59	1	-	July 20, 1956	34.57	43,600	323	6.7
1010.3	Salis Creek near Bennett, N. C.	2.97	1953-59	1	-	Sept. 15, 1954	25.79	1,410	475	-
1014.8	Sugar Creek near Framway, N. C.	43.85	1953-59	1	2,110	Sept. 3, 1955	30.7	10,400	470	4.7
1018.9	Deep River near Goldsboro, N. C.	3,140	1920-59	2	24,700	Aug. 13, 1925	27.50	80,500	27.0	3.2
1020.82	Cape Fear River at Moncure, N. C.	1,430	1930-59	2	46,000	Sept. 19, 1945	35.16	-	-	-
1025.82	Cape Fear River at Lillington, N. C.	3,440	1943-59	MS	-	Sept. 19, 1945	53.19	-	-	-
1029.1	Dunhams Creek tributary near Carthage, N. C.	2.19	1953-59	4	625	Apr. 22, 1959	24.52	410	187	4.2
1029.3	Crane Creek near Vass, N. C.	32.4	1953-59	4	4,190	Sept. 18 or 19, 1945	25.95	2,650	81.8	-
1030	Little River at Manchester, N. C.	349	1938-50	4	-	Sept. 18 or 19, 1945	29.0	-	-	-
1033.9	South Prong Anderson Creek (formerly Anderson Creek tributary) near Lillington, N. C.	7.20	1952-59	4	-	December 1953	21.85	-	-	-
1035	Little River at Linden, N. C.	460	1927-59	4	5,250	April 1959	-	180	25.0	-
1040	Cape Fear River at Fayetteville, N. C.	4,370	1889-1959	MS	47,500	Sept. 18, 1945 Sept. 19 or 20, 1945	41.47	13,500	29.3	2.6
						Sept. 20, 1945	68.8	122,000	27.9	2.6

† Period in water years for which the listed flood is the maximum.

Table 1.-Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods†	Hydro-logic area (ofs)	Maximum stage and discharge			Ratio to areal Q _{2.33}
					Date	Gage height (feet)	Discharge Cfs per sq mi	
Cape Fear River basin--Continued								
1040.8	Rees Creek near Fayetteville, N. C.	8.05	1952-59	4	-	22.56	550	68.3
1045	Rockfish Creek near Hope Mills, N. C.	284	1936-59	4	3,550	51.75	8,000	28.2
1055	Cape Fear River at lock 3, near Tabor City, N. C.	4,810	1937-59	MS	47,000	43.84	-	-
1055.4	Cape Fear River at lock 2, near Elizabethtown, N. C.	4,980	1908, 1910-13, 1914-59	-	-	43.2	-	-
1055.7	Browns Creek near Elizabethtown, N. C.	14.1	1953-59	5	575	20.93	2,000	142
1056.3	Turbull Creek near Elizabethtown, N. C.	71.6	1949, 1952-59	5	575	27.59	3,500	48.9
1059	Hood Creek near Ireland, N. C.	21.6	1952-59	5	745	10.39	2,050	94.9
1060	Little Coharie Creek near Roseboro, N. C.	96.4	1924, 1950-59	5	-	11.6	-	-
1062.4	Turkey Creek near Turkey, N. C.	15.7	1950-59	5	-	9.00	1,860	19.3
1064.1	Stewart's Creek tributary near Warsaw, N. C.	.64	1952-59	5	-	22.60	1,190	75.3
1065	Black River near Tomahawk, N. C.	680	1928, 1945, 1948, 1951-59	5	3,900	24.20	1,42	222
1069.1	Big Swamp near Roseboro, N. C.	32.3	1952-59	5	294	47.0	11,400	16.8
1070	South River near Parkersburg, N. C.	382	1918 or 1928, 1951-59	5	2,400	20.75	730	22.6
1075	Colly Creek near Kelly, N. C.	-	1908, 1928, 1945, 1950-59	5	780	65.88	-	-
1075.9	Northeast Cape Fear River tributary near Mt. Olive, N. C.	.63	1950-59	5	-	11.1	5,000	13.1
1076.2	Mathews Creek near Pink Hill, N. C.	9.29	1952-59	5	-	64.20	-	-
1079.3	Limestone Creek near Beaufort, N. C.	49.7	1952-59	5	420	7.20	910	8.84
1080	Northeast Cape Fear River near Chinquapin, N. C.	600	1908, 1928, 1940-59	5	3,500	21.83	118	187
1085	Rockfish Creek near Wallace, N. C.	63.8	1940-59	5	520	21.86	809	87.1
1086.1	Pike Creek near Burgaw, N. C.	10.55	1952-59	5	-	24.50	3,300	66.4
1086.3	Turkey Creek near Gaston Hayne, N. C.	10.2	1952-59	5	-	22.6	-	-
Waccamaw River basin								
1089.6	Backhead Branch near Bolton, N. C.	15.3	1952-59	5	-	17.97	15,200	25.3
1095	Waccamaw River at Freeland, N. C.	706	1939-59	5	4,000	16.93	2,900	43.9
1096.4	Wet Ash Swamp near Ash, N. C.	19.7	1952-59	5	-	22.97	700	1270
1100.2	Mill Branch near Tabor City, N. C.	3.85	1952-59	5	-	26.00	4,000	592
1105	Waccamaw River near Longs, S. C.	1,110	1950-59	5	5,950	23.19	1,570	103
1106.9	Waccamaw River at Conway, S. C.	1,350	1894-1959	5	-	16.83	10,200	14.5
						21.89	1,270	64.5
						23.2	1,575	149
						13.82	10,300	9.28
						13.4	-	-

MAXIMUM KNOWN FLOODS

Fee Dee River basin

1110	Yadkin River at Patterson, N. C.	28.8	1939-59	2	-	Aug. 13, 1940	12.70	16,200	563	-
1113.4	South Frong Lewis Fork Creek near North Wilkesboro, N. C.	15	1954-59	2	-	Apr. 14, 1955	13.25	-	-	-
1115	Reddies River at North Wilkesboro, N. C.	93.9	1939-59	2	3,650	Aug. 14, 1940	22.02	27,000	287	77.4
1120	Yadkin River at Wilkesboro, N. C.	495	1905-37, 1916, 1929-59	2	11,800	Aug. 14, 1940	37.6	160,000	325	13.6
1124.1	Fisher River near Bottom, N. C.	44.7	1929-59	2	2,150	Aug. 31, 1959	15.92	2,750	61.5	1.3
1125	Fisher River near Dobson, N. C.	109	1929-59	2	4,070	Oct. 1, 1929	12.7	6,700	76.1	2.0
1130	Fisher River near Copeland, N. C.	129	1931-55	2	4,350	Aug. 14, 1940	15.1	27,300	226	6.3
1140.1	Arava River at dam, near Pilot Mountain, N. C.	287	1938, 1940, 1947, 1952-59	2	8,000	June 14, 1947	106.5	640,000	139	5.0
1155	Forbush Creek near Yadkinville, N. C.	21.7	1939-59	2	-	Sept. 30, 1944	-	2,450	113	-
1155.2	Logan Creek near Smithtown, N. C.	1.08	1953-59	2	-	Aug. 3, 1958	11.08	496	459	-
1155.4	South Deep Creek near Yadkinville, N. C.	19.5	1953-59	2	-	June 22, 1957	23.08	2,920	150	-
1158.4	Kerners Mill Creek (Fishers Branch) near Kernersville, N. C.	2.21	1953-59	2	-	Apr. 28, 1958	23.29	2,550	249	-
1165	Yadkin River at Yadkin College, N. C.	2,280	1916-59	2	34,500	July 1916	36.3	94,300	41.4	2.7
1174.1	McClelland Creek near Statesville, N. C.	1.6	1953-59	3	2,610	Sept. 17, 1957	20.10	8,700	272	-
1175	Rocky Creek at Turnersburg, N. C.	102	1936-38, 1940-59	3	-	1926-58 d/	18.0	-	85.3	3.3
1180	South Yadkin River near Mocksville, N. C.	313	1929-59	3	6,050	Oct. 3, 1929	22.6	-	-	-
1185	Hunting Creek near Harmony, N. C.	153	1938-59	3	5,550	Jan. 23, 1954	16.73	9,240	29.5	1.5
1190	South Yadkin River at Coolemees, N. C.	569	1951-59	3	9,400	Apr. 28, 1958	18.80	6,210	40.6	1.7
1205	Third Creek at Cleveland, N. C.	87.4	1916, 1927-59	3	2,320	Oct. 3, 1929	32.25	24,800	43.6	2.6
1208.2	Deal Branch near Salisbury, N. C.	3.88	1939-59	2	-	Sept. 19, 1945	15.76	3,080	35.3	1.3
1210	Yadkin River near Salisbury, N. C.	3,470	1953-59, 1911-27	2	46,000	November 1957	25.10	1,980	510	2.6
1215	Abbotts Creek at Lexington, N. C.	174	1939-57	2	5,650	Sept. 25, 1947	22.12	14,800	85.1	2.6
1219.4	Fiat Swamp Creek near Lexington, N. C.	6.56	1953-59	2	-	Apr. 5, 1957	24.91	1,020	185	-
1225	Yadkin River at High Rock, N. C.	4,000	1916-59	2	51,000	July 1916	22.1	85,000	21.2	1.7
1225.6	Cabin Creek near Jackson Hill, N. C.	13.7	1941-59	2	-	Oct. 1, 1955	22.79	960	88.8	-
1227.2	Beaverdam Creek tributary near Denton, N. C.	2.90	1953-59	2	-	Oct. 1, 1955	22.00	2,130	194	-
1230	Unnarrie River near Trinity, N. C.	11.5	1932-59	2	-	July 17, 1945	26.22	25,300	67.2	2.5
1235	Unnarrie River near Eldorado, N. C.	34.1	1928, 1929-59	2	9,200	Sept. 18, 1945	26.22	25,300	67.2	2.5
1240.6	North Frong Clarke Creek near Huntersville, N. C.	3.61	1953-59	1	-	Aug. 9, 1959	22.25	2,450	679	-
1241.3	Walland Creek near Charlotte, N. C.	20.7	1953-59	1	-	Apr. 14, 1955	22.58	3,060	148	-
1250	Big Bear Creek near Richfield, N. C.	55.7	1954-59	1	3,650	July 9, 1959	14.55	9,700	174	2.6
1254.1	Chickapin Creek near Monroe, N. C.	8.49	1952-59	1	-	May 1956	23.48	-	-	-
1260	Rocky River near Norwood, N. C.	1,370	1908, 1929-59	1	30,900	Sept. 18, 1945	46.37	105,000	76.6	3.4
1265	Little Brown Creek near Polkton, N. C.	13.5	1935-40	3	-	July 21, 1939	7.04	2,200	163	-

t Period in water years for which the listed flood is the maximum.

c Affected by failure of dam upstream.

d Sometime during period 1936 to 1938, from information by local residents.

Table 1.--Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floodst	Hydro-logic area (cfs)	Areal cfs	Date	Maximum stage and discharge			
							Gage height (feet)	Discharge		Ratio to areal sq. mi
								Cfs	per sq mi	
Pee Dee River basin--Continued										
1270	Brown Creek near Polkton, N. C.	110	1908, 1916, 1928, 1935-59	3	2,770	Sept. 18, 1945	17.68	17,300	157	6.2
1273.9	Palmetto Branch at Ansonville, N. C.	.86	1952-59	3	-	July 8, 1958	23.92	296	344	-
1275	Pee Dee River near Ansonville, N. C.	6,830	1908, 1928-29, 1938-45	-	-	August	41.3	-	-	-
1280	Little River near Star, N. C.	105	1938-45	MS	90,000	Aug. 16, 1940	20	76,700	12.4	.9
1280.4	Cheek Creek near Pekin, N. C.	15.4	1945, 1954-59	3	2,700	September 1945	16.46	10,400	99.1	3.9
1290	Pee Dee River near Rockingham, N. C.	6,870	1953-59	3	-	Oct. 15, 1954	24.20	6,230	404	-
1294.4	South Fork Jones Creek near Morven, N. C.	17.3	1906-11, 1927-59	MS	79,000	July 19, 1956	31.28	276,000	40.2	3.5
1295	North Fork Jones Creek near Wadesboro, N. C.	9.43	1953-59	5	-	Aug. 27, 1908	-	-	-	-
1295.3	Little Creek tributary near Pee Dee, N. C.	.14	1935-41	5	-	May 11, 1957	18.13	1,650	94.2	-
1300	Pee Dee River at Cheraw, S. C.	7,320	1954-59	5	-	June 4, 1957	-	2,410	256	-
1305	Jupiter Creek near Cheraw, S. C.	8.64	1875, 1891-1959	5	-	June 4, 1957	6.49	-	22	157
1310	Pee Dee River at Feddes, S. C.	8,650	1907-59	5	595	August 19, 1958	51.92	-	-	-
1312.2	Pee Dee River near Poston, S. C.	9,440	1907-59	MS	45,400	Sept. 18, 1945	30.4	3,910	61.1	7.4
1315	Lynches River near Bishopville, S. C.	675	1916, 1928-43, 1942-59	4	-	Sept. 22, 1945	33.3	220,000	24.9	4.8
1320	Lynches River at Effingham, S. C.	1,030	1891-1969	5	5,600	September 1945	30.0	-	-	-
1321	Pee Dee River at Smith Mills, S. C.	11,000	1893, 1898-1910, 1913-16	-	-	Sept. 19, 1945	22.35	29,400	43.6	4.1
1322.3	Bridge Creek tributary at Johns, N. C.	6.23	1952-59	5	-	Sept. 22, 1945	24.0	25,000	24.3	4.5
1325	Little Pee Dee River near Dillon, S. C.	524	1939-59	5	3,120	Sept. 3, 4, 1908	-	-	-	-
1335	Drowning Creek near Hoffman, N. C.	178	1939-59	5	1,250	December 1952	20.60	230	36.9	3.1
1335.9	Beaverdam Creek (formerly Lumber River tributary) near Aberdeen, N. C.	4.66	1952-59	5	-	Sept. 20, 1945	14.64	9,810	18.7	-
1339.6	Raft Swamp (formerly Big Raft Swamp) near Red Springs, N. C.	39.8	1952-59	5	350	Sept. 18, 1945	10.29	10,900	61.2	8.7
1343.8	Terminle Swamp near Lumberton, N. C.	16.1	1952-59	5	-	Oct. 15, 1954	21.37	165	35.4	-
1345	Lumber River at Boardman, N. C.	1,220	1896-1913, 1928-59	5	6,400	June 19, 1957	20.80	-	-	-
1350	Little Pee Dee River at Gallivants Ferry, S. C.	2,790	1928-59	5	12,900	Mar. 6, 1959	20.75	260	16.1	-
1355	Black River near Gable, S. C.	401	1941-59	5	2,500	August	11.8	25,000	20.5	3.9
1360	Black River at Kingstree, S. C.	1,260	1951-59, 1893-1959	5	6,600	September 1928	16.0	26,800	9.61	2.1
						Sept. 23, 1945	13.23	4,150	10.4	1.7
						Sept. 3, 1952	5.22	4,500	33.0	6.3
						Sept. 21, 1928	18.0	41,600	33.0	6.3

MAXIMUM KNOWN FLOODS

Santee River basin

1380	Catawba River near Marion, N. C.	171	63	1840-59	1	7,700	Aug. 13, 1940	19.34	71,400	418	9.3
1381.8	Catawba Branch tributary near Marion, N. C.	67.2	63	1854-59	1	4,120	June 4, 1937	20.75	1,147	233	-
1385	Linville River at Branch, N. C.	67.2	63	1907-8, 1916, 1922-59	1	-	Aug. 13, 1940	11.4	39,500	588	9.6
1409.8	Carnol Creek near Collettsville, N. C.	2.38		1954-59	1	-	Sept. 7, 1959	21.36	430	181	-
1418.9	Duck Creek near Taylorsville, N. C.	18.6		1953-59	1	-	Apr. 28, 1958	16.43	1,430	76.8	-
1420	Lower Little River near All Healing Springs, N. C.	31.2		1952-59	1	2,500	Apr. 28, 1958	13.94	2,550	81.7	1.0
1424.8	Hagan Creek near Catawba, N. C.	7.80		1953-59	1	-	Nov. 20, 1957	25.00	2,060	264	-
1425	Catawba River at Catawba, N. C.	1,535		1896-1959, 1898-1901, 1934-59	1	33,000	July 16, 1916	44.1	177,000	115	5.4
1430	Henry Fork near Henry River, N. C.	80	1.01	1916-59	1	4,650	Aug. 13, 1940	29.2	31,300	391	6.7
1433.1	South Fork Catawba River tributary near Lincolnton, N. C.	68.4		1916-59	1	4,200	May	22.48	51	585	-
1435	Indian Creek near Laboratory, N. C.	31.4		1952-59	1	2,500	October 1929	-	9,920	145	2.4
1440	Long Creek near Bessemer City, N. C.	830		1940-59	1	18,300	Nov. 19, 1957	8.26	5,290	168	2.1
1450	South Fork Catawba River at Lowell, N. C.	3,050		1895-1903, 1942-59	MS	48,600	August	21.83	34,000	54.0	1.9
1460	Little Sugar Creek near Charlotte, N. C.	40.5		1924-59	1	2,950	May 23, 1901	24.15	151,000	49.5	3.1
1468.9	East Fork Twelve Mile Creek near Waxhaw, N. C.	42.3		1953-59	2	2,100	Apr. 6, 1956	16.2	8,370	207	2.8
1469.9	Catawba River near Catawba, S. C.	5,530		1901.1903-5, 1906-49, 1958-59	-	-	Sept. 7, 1959	25.5	-	-	-
1475	Rocky Creek at Great Falls, S. C.	194		1951-59	2	6,100	July 16, 1916	40.4	-	-	-
1480	Waterce River near Camden, S. C.	5,070		1886, 1891-1959, 1903-10, 1929-59	MS	54,000	Sept. 30, 1959	10.23	10,800	55.7	1.8
1483.2	Waterce River at Waite, S. C.	5,514		1929-59, 1916, 1927-51, 1951-59	-	-	July 16, 1916	40.4	400,000	78.9	7.4
1485	Broad River near Chimney Rock N. C.	77.0		1916, 1951-59	2	3,750	Aug. 15, 1928	16.8	26,000	268	6.9
1490	Cove Creek near Lake Lure, N. C.	174		1916-59	2	5,180	June 5, 1916	18.53	7,050	91.6	2.2
1500	Green River near Mill Springs, N. C.	113.1		1925-59	2	6,500	June 4, 1957	20.25	-	-	-
1504.2	Came Creek near Rutledge, N. C.	211		1954-59	2	17,400	Aug. 14, 1940	17.93	15,000	71.1	2.3
1510	Second Broad River at Cliffside, N. C.	864		1925-59	2	-	Aug. 16, 1928	24.3	73,300	84.8	4.2
1515	Broad River near Bolling Springs, N. C.	16.4		1953-59	1	-	Sept. 30, 1959	10.42	1,170	71.3	-
1524.2	Big Knob Creek near Fallston, N. C.	198		1916, 1939-59	1	8,500	July 19, 1916	37.8	32,500	164	3.8
1525	First Broad River near Lawndale, N. C.	1,490		1953-59	1	32,300	Aug. 14, 1940	25.19	902	635	3.7
1526.1	Sugar Branch near Bolling Springs, N. C.	116		1896-99, 1938-59	1	4,240	Nov. 17, 1957	19.78	119,000	79.9	3.7
1535	Faccolet River near Gaffney, S. C.	212		1930-59	2	6,500	Aug. 14, 1940	27.13	12,500	108	2.9
1545	North Faccolet River at Fingerville, S. C.	320		1930-59	2	8,700	June	46	-	-	-
1555	Faccolet River near Fingerville, S. C.	320		1930-59	2	-	Aug. 14, 1940	22.43	22,800	108	3.5
1560	Faccolet River near Clifton, S. C.	320		1939-59	2	-	Aug. 14, 1940	21.19	26,800	93.8	3.1

† Period in water years for which the listed flood is the maximum.

c Affected by failure of dam upstream.

Table 1.--Maximum stages and discharges of streams in Part 2-A--Continued

No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods†	Hydro-logic area	Area of Q _{2.33} (cfs)	Date	Maximum stage and discharge			Ratio to areal Q _{2.33}
							Stage height (feet)	Discharge cfs	Cfs per sq mi	
Santee River basin--Continued										
1565	Broad River near Carlisle, S. C.	2,790	1939-59	MS	49,600	Aug. 15, 1940	29.41	103,000	36.9	2.1
1570	North Tyger River near Raimont, S. C.	44	1950-59	2	2,150	May 26, 1959	13.58	5,610	82.0	1.7
1575	Middle Tyger River at Lyman, S. C.	68.3	1939-59	2	2,920	Aug. 14, 1940	16.16	4,800	70.3	1.6
1580	North Tyger River near Moore, S. C.	162	1933-59	3	3,700	Aug. 14, 1940	7.15	12,300	75.9	3.3
1585	South Tyger River near Reidville, S. C.	106	1934-59	3	2,700	Oct. 7, 1949	14.23	6,420	60.6	2.4
1590	South Tyger River near Woodruff, S. C.	174	1934-59	3	3,900	Apr. 6, 1936	9.78	9,510	54.6	2.4
1595	Tyger River near Woodruff, S. C.	351	1905, 1928-56	5	6,600	June 6, 1905	20.4	-	-	-
1600	Farforest Creek near Union, S. C.	183	1929-56	2	5,900	Oct. 2, 1929	7.61	28,000	79.8	4.2
1605	Enoree River near Enoree, S. C.	457	1940-59	2	8,400	Nov. 29, 1948	10.5	8,890	47.5	1.5
1608	Broad River at Blair, S. C.	4,750	1886, 1905-59	2	8,400	Oct. 17, 1928	30.02	30,000	97.7	3.6
1610	Broad River at Blakes, S. C.	4,750	1886, 1905-59	MS	59,000	June 3, 1928	33.7	140,000	29.2	2.4
1615	Broad River at Blakes, S. C.	4,750	1886, 1905-59	MS	59,000	June 3, 1928	33.7	223,000	47.0	3.4
1620	Saluda River near Greer, S. C.	293	1941-59	3	5,750	Oct. 7, 1949	19.38	11,000	37.5	1.9
1625	Saluda River near Pelzer, S. C.	403	1929-59	3	7,300	Oct. 7, 1949	19.53	13,600	33.6	1.9
1630.2	Saluda River at Pelzer, S. C.	415	1906-59	-	-	Aug. 25, 1908	25.6	-	-	-
1635	Saluda River near Ware Shoals, S. C.	569	1938-59	3	9,400	Aug. 13, 1940	20.48	20,600	36.2	2.2
1640	Reedy River near Greenville, S. C.	49.6	1942-59	2	2,500	Oct. 7, 1949	7.88	3,590	73.9	1.6
1650	Reedy River near Ware Shoals, S. C.	228	1939-59	3	4,750	Aug. 14, 1940	13.32	9,410	41.3	2.0
1655	Saluda River near Waterloo, S. C.	1,056	1896-1905	-	-	Feb. 2, 1902	25.2	-	-	-
1670	Saluda River at Chappells, S. C.	1,550	1888, 1905-59	-	-	Aug. 26, 1908	34.7	-	-	-
1675	Saluda River near Silverstreet, S. C.	1,620	1928-59	-	-	Oct. 2, 1929	31.5	63,700	47.2	-
1690	Saluda River near Columbia, S. C.	2,510	1928-59	-	-	Oct. 3, 1929	33.97	83,800	51.7	-
1695	Congaree River at Columbia, S. C.	7,850	1852-1892-1959	MS	67,100	Oct. 2, 1929	15.22	67,000	26.7	-
1698	Santee River near Fort Motte, S. C.	14,100	1952-59	-	-	Aug. 27, 1908	39.8	364,000	46.4	5.4
1699	Santee River near Rmini, S. C.	14,194	1865, 1905,	-	-	Jan. 27, 1954	16.58	-	-	-
			1906-41	-	-	July 20, 1916	35.6	-	-	-
1700	Santee River at Ferguson, S. C.	14,600	1907-41	MS	99,000	July 21, 1916	24.74	374,000	25.6	3.8
1715	Santee River near Pineville, S. C.	14,700	1942-59	MS	99,000	Sept. 23, 1945	31.1	185,000	10.5	1.6
1716	Santee River near St. Stephens, S. C.	14,900	1888, 1892-1907	MS	99,000	Sept. 18, 1888	20.2	-	-	-
Edisto River basin										
1725	South Fork Edisto River near Montmorenci, S. C.	198	1939-59	5	1,370	Aug. 15, 1940	8.61	2,460	12.4	1.8
1730	South Fork Edisto River near Denmark, S. C.	720	1893-1959	5	4,100	July 19, 1941	11.7	17,100	23.8	4.2
1735	North Fork Edisto River at Orangeburg, S. C.	683	1893-1959	5	3,900	October 1929	14.7	10,000	14.6	-
1736	Edisto River at Edisto, S. C.	1,640	1869, 1894-1907, 1912-20, 1925, 1928, 1930, 1936, 1940	-	-	July 1869, September 1928, September 1928, October 1929	8.5	-	-	-

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1740	Edisto River near Branchville, S. C.	1,720	1928, 1945-59	5	8,600	September 1928	13.5	25,700	14.9	3.0
1750	Edisto River near Givhans, S. C.	2,750	1904-59	5	12,700	February 1925	17.5	24,900	9.12	2.0
Combahee River basin										
1755	Salkehatchie River near Miley, S. C.	341	1951-59	5	2,160	Mar. 7, 1959	4.61	1,600	4.69	0.7
1760	Combahee River near Yemassee, S. C.	1,100	1951-59	5	5,900	Mar. 7, 1959	10.16	9,850	8.95	1.7
Broad River basin										
1765	Coosawatchie River near Hampton, S. C.	203	1951-59	5	1,400	Mar. 6, 1959	5.87	2,950	14.5	2.1
Savannah River basin										
1770	Chattooga River near Clayton, Ga.	207	1907-8, 1914-15	1	8,700	Aug. 30, 1940	13.8	29,000	140	3.3
1780	Chattooga River near Tallulah Falls, Ga.	256	1927-31, 1939-59	1	10,100	Aug. 15, 1928	16.4	22,400	87.5	2.2
1820	Panther Creek near Toccoa, Ga.	521.5	1916-29	1	2,550	June 16, 1949	18.0	15,100	465	5.9
1830	Tugaloo River near Madison, S. C.	595	1926-30, 1937-59	-	-	July 1, 1905	26.2	-	-	-
1840	Tugaloo River near Hartwell, Ga.	909	1925-27, 1939-59	1	23,200	Aug. 31, 1940	10.8	28,600	31.5	1.2
1845	Whitewater River at Joazepe, S. C.	47.3	1951-59	1	3,280	Mar. 11, 1952	11.17	7,120	150	2.2
1850	Keowee River near Joazepe, S. C.	149.3	1949-59	1	7,000	Mar. 11, 1952	16.23	18,400	124	2.6
1855	Keowee River near Newry, S. C.	455	1939-59	1	14,800	Aug. 11, 1940	26.6	25,200	27.6	1.7
1860	Twelvemile Creek near Liberty, S. C.	106	1954-59	1	5,600	Apr. 5, 1957	9.80	2,930	55.54	1.5
1870	Seneca River near Anderson, S. C.	1,026	1928-59	1	25,200	Aug. 13, 1928	25.73	81,100	79.0	3.2
1875	Savannah River near Iva, S. C.	2,121	1949-59	MS	42,900	Mar. 12, 1952	12.74	54,400	24.4	1.3
1880	Rocky River near Calhoun Falls, S. C.	2,267	1950-59	2	7,600	Mar. 25, 1952	9.44	9,450	35.4	1.2
1885	South Beavertdam Creek at Dewy Rose, Ga.	35.6	1852, 1908, 1928, 1942-59	2	1,850	Aug. 25, 1852	23.6	-	-	-
1890	Savannah River near Calhoun Falls, S. C.	2,876	1942-59	MS	49,000	Jan. 18, 1943	13.4	2,600	72.6	1.4
1912	Hudson River at Homer, Ga.	46	1950-59	2	2,200	Aug. 17, 1928	13.76	130,000	45.2	2.7
1913	Broad River above Carlton, Ga.	760	1898-1959	2	16,000	Mar. 4, 1952	35.0	79,400	92.1	4.4
1920	Broad River near Bell, Ga.	1,430	1926-32, 1937-59	2	25,000	Oct. 2, 1929	34.8	70,000	55.5	3.2
1925	Little River near Mount Carmel, S. C.	217	1939-59	2	6,600	Aug. 14, 1940	29.60	20,800	95.9	3.2
1935	Little River near Washington, Ga.	291	1949-59	2	8,100	Mar. 4, 1952	27.6	15,100	45.0	1.6
1940	Little River near Lenoir, Ga.	574	1929, 1943-51	2	15,100	Sept. 28, 1929	44.5	54,000	94.1	4.1
1950	Savannah River near Clarks Hill, S. C.	6,150	1940-54	MS	98,000	Aug. 14, 1940	29.34	196,000	31.9	2.0
1955	Savannah River at Woodlawn, S. C.	6,370	1905-10	MS	-	Aug. 26, 1908	37.6	304,000	47.7	2.8
1960	Stevens Creek near Mocco, S. C.	545	1929-31, 1940-59	2	12,600	Aug. 14, 1940	41.08	35,100	64.4	2.8
1970	Savannah River at Augusta, Ga.	7,508	1786-1959	MS	97,000	1796	40	360,000	47.9	3.7
1973	Savannah River near Jackson, S. C.	6,160	1929-37, 1939-50	-	-	Oct. 4, 1929	37.82	-	-	-
1975	Savannah River at Burtons Ferry Bridge, near Milliken, Ga.	8,650	1929-30, 1939-50	MS	69,000	October 1929	50.8	220,000	25.4	3.2
1975.5	Little River Creek near Thomson, Ga.	24	1959-60	5	-	Mar. 4, 1952	8.53	950	40.0	-
1980	Brier Creek at Millhaven, Ga.	646	1961-1959	5	3,720	October 1929	25.1	64,000	29.1	17.2
1985	Savannah River near Clio, Ga.	9,850	1925-59	MS	58,000	Oct. 6, 1929	25.7	270,000	27.4	4.6

† Period in water years for which the listed flood is the maximum.

Table 2.--Peak discharges at miscellaneous sites

Stream and place of determination	Tributary to	Drainage area (sq mi)	Date	Maximum discharge		Hydro-logic area
				Cfs	Cfs per sq mi	
Bailey Fork at mouth, near Morgantown, N. C.	Silver Creek.....	8.0	Aug. 13, 1940	9,700	1,210	1
Bear Creek, 4.9 miles southwest of Jug Town, N. C.	Deep River.....	25.9	July 13, 20, 1956	8,540	349	1
Beaverdam Swamp at Lebanon, N. C.	Neven Swamp.....	21.5	Mar. 8, 1941	545	25.6	5
Blackwater River near Burdette, Va.	Northway River.....	57.6	August 1, 1940	20,000	34.7	5
Braker Creek near Clegg, N. C.	Cabursee Creek.....	22.3	Aug. 31, 1952	593	27.6	1
Buck Creek at Lake Rahona, near Marion, N. C.	Yadkin River.....	52.9	Aug. 13, 1940	17,000	521	1
Buffalo Creek at Patterson School Dam, near Patterson, N. C.	Maury River.....	55.6	Aug. 14, 1940	17,800	363	1
Buffalo Creek below Seaboard Air Line Railroad, at Stubbs, N. C.	Buffalo River.....	117	Sept. 10, 1950	39,700	339	1
Buffalo Creek near 3 mile west of Leaksville, N. C.	Dan River.....	16.7	Oct. 15, 1954	4,190	251	2
Catawba River at Bridgewater Dam, N. C.	Watersee River.....	380	Aug. 14, 1940	843,700	-	2
Catawba River at Lookout Shoals Dam, N. C.	.....do.....	1,449	Aug. 14, 1940	1177,000	-	-
Catawba River at Mountain Island Dam, N. C.	.....do.....	1,860	Aug. 15, 1940	8177,000	-	-
Catawba River at Oxford Dam, N. C.	.....do.....	1,510	Aug. 14, 1940	8158,000	-	-
Cedar Creek at Toocooa Water Works Dam, 3 miles northwest of Toocooa, Ga.	Little Toocooa Creek.....	2.4	June 16, 1949	850	270	1
Colliers Creek near Collierstown, Va.	Buffalo Creek.....	29	Sept. 10, 1950	7,960	274	2
Coleman River at Coleman River Road, 2½ miles above mouth, 8 miles northwest of Clayton, Ga.	Tallulah River.....	5.6	June 16, 1949	830	148	1
Compasture River near Headwaters, Va.	James River.....	6.5	June 17, 1949	5,500	870	2
Compasture River near Williamsville, Va.	.....do.....	61	June 17, 1949	25,300	415	2
Dan River at Leaksville, N. C.	Roanoke River.....	1,150	Sept. 18, 1945	54,200	47.1	2
Deep River at High Point Dam, N. C.	Cape Fear River.....	61.4	Sept. 24, 1947	16,300	275	1
Dicks Creek at State Highway 13, 4½ miles west of Toocooa, Ga.	Middle Fork Broad River.....	.7	June 16, 1949	318	440	1
Drowning Creek, 2 miles south of Jackson Springs, N. C.	Lumber River.....	35.1	July 19 or 20, 1956	7,280	207	5
East Fork Falling River near Appomattox, Va.	Falling River.....	5.13	Aug. 17, 1955	338	65.9	2
East Prong Drowning Creek, 2 miles south of Eagle Springs, N. C.	Drowning Creek.....	3.25	July 19, 1956	3,810	1,170	5
Elk Creek at Elkville, N. C.	Yadkin River.....	50.9	Aug. 13, 1940	71,500	1,400	2
Falling Creek near Stewartville, Va.	Roanoke River.....	5.1	July 15, 1949	5,480	1,075	2
Falling Creek tributary near Stewartville, Va.	Falling Creek.....	.45	July 15, 1949	1,400	3,110	2
First Broad River near Gambles Store, N. C.	Broad River.....	26.5	Aug. 13, 1940	14,000	528	2
Four Hole Swamp near Ridgeville, S. C.	Edisto River.....	600	July 29, 1916	18,400	22.3	5
Green River at Turner Shoals Dam, N. C.	Drow River.....	135	Aug. 13, 1940	9,490	70.3	5
Gunpowder Creek at Duke Power Co. Dam No. 2, near Granite Falls, N. C.	Catawba River.....	36.2	Aug. 29, 1948	12,000	329.9	1
Hunting Creek at Southern Railway crossing, near Morgantown, N. C.	.....do.....	21.4	Aug. 13, 1940	14,000	654	1
Hunting Creek near Spurgeon, N. C.	South Yadkin River.....	15.0	Aug. 14, 1940	12,000	800	3
Johns Creek at Collettsville, N. C.	Catawba River.....	67.9	Aug. 13, 1940	31,000	457	1
Kerry Creek at Denmark, Va.	Maury River.....	12.3	Sept. 10, 1950	10,500	854	1
Lacey Creek tributary near Windsor Shades, Va.	Lacey Creek.....	12.9	May 26, 1948	17,760	844	1
Little Mulberry Creek near Collettsville, N. C.	Mulberry Creek.....	25.9	Aug. 13, 1940	14,000	541	1
Long Branch, 1.5 miles southwest of Capelsite, N. C.	Little River.....	1.73	July 19, 1956	663	383	1

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Lower Creek at Lenoir, N. C.	31.8	Aug. 15, 1940	20,000	629	1
Lower Little River at Lilestown Mills, near Taylorsville, N. C.	69.6	Aug. 14, 1940	23,000	330	2
Middle Creek at State Highway 49, near Roxboro, N. C.	2.05	June 15, 1953	1,460	712	4
White Marsh near Elktion, N. C.	6.02	Mar. 8, 1941	179	29.7	5
Mill Creek at Old Fort, N. C.	20.7	Aug. 15, 1940	7,900	582	1
Mill Creek tributary near Samarcand, N. C.	1.90	July 19 or 20, 1956	1,480	778	1
Mill Creek near Robbins, N. C.	9.60	July 19 or 20, 1956	8,230	857	1
Moormans River near Whitehall, Va.	18	October 1942	10,000	556	2
Mulberry Creek (River) below Hay Meadow Creek, near Mulberry, N. C.	31.8	Aug. 14, 1940	16,000	503	2
Naked Creek, 1½ miles east of Norman, N. C.	8.94	July 19 or 20, 1956	1,570	176	5
North Fork Broad River, 3 miles southwest of Toccoa, Ga.	7.71	Feb. 6, 1955	442	57.3	2
North Fork Broad River, 5½ miles west of Martin, Ga.	37.4	Feb. 7, 1955	744	19.9	2
North Fork Catawba River above Sevier, near Woodlawn, N. C.	41.4	Aug. 15, 1940	55,000	1,350	1
North Fork Catawba River at Linville Caverns, near Ashefort, N. C.	4.48	Aug. 15, 1940	15,000	3,350	1
North Prong Lewis Fork Creek near Pulear, N. C. (formerly Lewis Fork above Coal Creek, near Pulear)	25.4	Aug. 15, 1940	7,400	291	2
Panther Creek tributary at U.S. Highway 25, 1½ miles southwest of Tallulah Falls, Ga.	3.9	June 16, 1949	710	182	1
Panther Creek tributary at U.S. Highway 23, 2½ miles southwest of Tallulah Falls, Ga.	4.8	June 16, 1949	1,400	292	1
Pee Dee River at Elewest Falls Dam, near Rockingham, N. C.	6,830	Aug. 17, 1940	82,800	12.1	MS
Pee Dee River at Norwood Dam, N. C.	4,600	Aug. 16, 1940	83,800	-	1
Persimmon Creek, 1.0 mile southwest of Robbins, N. C.	1.24	July 19 or 20, 1956	267	215	1
Persimmon Creek, 1¼ miles above mouth and 6½ miles northwest of Clayton, Ga.	14	June 16, 1949	1,900	135	1
Poteoasi Creek near Union, N. C.	191	August 1940	7,000	36.6	5
Reedy Fork at Lake Brandt Dam, N. C.	70.1	Sept. 18, 1945	8,100	116	3
Reedy Fork at U.S. Highway 29, near Rudd, N. C.	110	Sept. 18, 1945	8,450	76.8	3
Reedy Fork near Summerfield, N. C.	34.1	Sept. 24 or 25, 1947	11,000	323	3
Reedy River at Blankinton Mills dam at Conestee, S. C.	65	Oct. 7, 1949	6,000	32.3	3
Reedy River near Princeton, S. C.	207	August 1908	29,000	135	2
Roaring River at Gordon Cotton Mill, near Roaring River, N. C.	135	Aug. 14, 1940	17,000	126	3
Rocky River at Robertson's Mills, near Jennings, N. C.	50.6	Aug. 14, 1940	3,000	59.3	2
Rocky River near Coalglan, N. C.	237	Sept. 18, 1945	40,000	169	2
Routany Creek near Stony Creek, Va.	120	Aug. 19, 1955	2,790	23.3	4
Saluda River near Chapin, S. C.	2,380	Mar. 5, 1929	64,400	27.1	4
Saluda River near Chapin, S. C.	509	July 19, 1916	31,900	62.7	1
South Fork Catawba River at High Shoals, N. C.	27.9	Aug. 15, 1940	22,000	43.2	2
South Prong Lewis Fork Creek near Pulear, N. C. (formerly West Fork Lewis Fork near Champion)	1.13	Aug. 15, 1940	27,000	968	2
Southeast Prong Beaverdam Creek at Raleigh, N. C.		Aug. 31, 1952	242	205	3

a. Furnished by Duke Power Co.

b. Furnished by Carolina Power & Light Co.

Table 2.--Peak discharges at miscellaneous sites--Continued

Stream and place of determination	Tributary to	Drainage area (sq mi)	Date	Maximum discharge		Hydro-logic area
				Cfs	Gfs per sq mi	
Southwest Frong Beaverdam Creek at Lake Boone, at Raleigh, N. C.	Beaverdam Creek.....	1.80	Aug. 31, 1952	417	213	2
Southwest Frong Beaverdam Creek at Raleigh, N. C.	.....do.....	1.86	Aug. 31, 1952	400	215	2
Steely Creek near Tablerock, N. C.	Upper Creek.....	17.1	Aug. 13, 1940	24,000	1,400	1
Stony Fork near Mt., near Hadrix, N. C.	Yadkin River.....	26.9	Aug. 29, 1949	56,000	1,800	2
Stoney Creek near Adson, Va.	Pigeon River.....	12.45	Aug. 29, 1949	8,000	653	2
Tallulah River at Crossroad, N. C.	Crossroads Creek.....	177	Aug. 27, 1952	19,300	108	1
Tallulah River at Mathis, Ga.	Tallaloo River.....	2,740	July 9, 1916	23,700	8.65	5
Tar River at Grimesland, N. C.	Famlico River.....	2,420	May 15, 1958	22,200	9.17	5
Tar River at Old Sparta, N. C.	.....do.....	7.01	May 14, 1958	1,510	844	3
Thickety Creek, 1 1/2 miles southeast of Onvil, N. C.	.....do.....	5.8	July 19, 1956	2,630	575	3
Timpson Creek, 3 1/2 miles southeast of Onvil, N. C.	.....do.....	7.20	July 19, 1956	890	154	1
Updam Brook at U. S. Highway 76, 4 1/2 miles west of Clayton, Ga.	Tallulah River.....	17.0	June 16, 1949	4,860	675	5
Upper Brook at State Highway 161, Richmond, Va.	Chickahominy River.....	19.7	Aug. 8, 1959	6,330	372	5
Warrior Creek above Steels Creek, near Tablerock, N. C.	.....do.....	79.3	Aug. 13, 1940	25,000	1,270	1
Warrior Fork below Worry, near Morganton, N. C.	Warrior Fork.....	79.3	Aug. 13, 1940	38,000	479	1
Westhampton Lake Outlet at University of Richmond, Va.	James River & Kanawha Canal.	2.55	Aug. 8, 1959	3,600	1,420	4
Wet Creek, 4 1/2 miles southwest of Robbins, N. C.	Cabin Creek.....	15.7	July 19 or 20, 1956	8,580	547	1
Whistle Creek near Lexington, Va.	Maury River.....	6.4	Sept. 10, 1950	11,500	1,800	1
Wilson Creek near Adako, N. C.	Johns River.....	65.0	July 13, 1916	52,500	808	1
Yadkin River at Badin Dam (Marrows Reservoir), near Badin, N. C.	Fee Dee River.....	4,180	Aug. 13, 1940	99,000	1,520	2
c Furnished by Aluminum Co. of America.			Oct. 3, 1929	113,000	27.0	2

FLOOD-FREQUENCY ANALYSIS

There are many factors that can affect the magnitude and frequency of floods. These may be divided into two classes, physiographic and meteorologic. The physiographic factors include size of drainage area, channel storage, slope of streams, topography, stream density and pattern, orientation of the stream with the storm pattern, underlying geology, soil cover, land use, and others. The meteorologic factors include climate, storm direction and pattern, rainfall volumes, precipitation intensities, snow accumulation, and others. Some of these factors are simple and lend themselves to rational interpretation, but others are interdependent, nebulous, and difficult to evaluate. The following description of the area summarizes some of the less tangible of these factors that can aid engineering interpretation in application of the method.

DESCRIPTION OF THE AREA

The area covered by this report lies in four well-defined physiographic provinces (pl. 1). A belt along the northwest side lies in the mountainous Valley and Ridge and Blue Ridge provinces; the southeastern part of the area is in the Coastal Plain; and the part of the area between the Blue Ridge and Coastal Plain lies in the Piedmont.

The stream pattern of the area is oriented generally northwestward. Of the major drainage basins, the headwaters of the James and Roanoke Rivers rise in the Valley and Ridge province and flow through the Blue Ridge, Piedmont, and Coastal Plain provinces to the Atlantic Ocean; the headwaters of the Pee Dee, Santee, and Savannah Rivers rise either on the crest or the eastern slopes of the Blue Ridge; and the headwaters of the Tar, Neuse, and Cape Fear Rivers rise in the Piedmont.

Although the delineation of the hydrologic areas is not based on the physical divisions, it will be observed that there is a general relationship between the hydrologic areas and the physical divisions.

The streams fall very rapidly in the mountains and break sharply to more gentle slopes through the rolling hills and low ridges of the Piedmont. The contact between the Piedmont and the Coastal Plain is known as the Fall Line and is in reality a zone many miles wide through which the streams break sharply into steep slopes as they emerge from the Piedmont. Southeast of the Fall Line the topography flattens, and the streams become flat and sluggish.

The climate of the area is warm and humid. Precipitation varies with the altitude and the barrier effect of the bordering Appalachians fronted by the Blue Ridge. Major atmospheric disturbances of the

hurricane type that range the Atlantic Coast subject the area to periods of very intense precipitation.

CHARACTERISTICS OF FLOOD RUNOFF

Floods may occur during any month. The average annual runoff is high, and the streamflow is well sustained throughout the year. The streams commonly have two high-water periods. The first, or major, period is from December to April, and the floods are caused by the winter and early spring rainstorms. The second period of high water is from August to October, and the floods are generally caused by the hurricane-type storms that come up the Atlantic Coast.

The great amount of precipitation along the mountainous area causes floods of higher unit runoff along the western boundary of part 2-A; the unit runoff generally decreases toward the coast.

METHOD OF ANALYSIS

The statistical and hydrologic bases for methods used in this analysis are given by (Dalrymple, 1960). The method consists of:

1. Tabulating flood data for all gaging stations in the area having a record of 10 or more years and not materially affected by regulation or diversion.
2. Selecting the base periods to be used in the study and adjusting all flood records to the base periods.
3. Determining the order of magnitude of each annual flood beginning with the greatest flood as number 1.
4. Computing the recurrence interval in years for each annual flood using the formula $T = (n + 1) / m$, where T is recurrence interval in years, n is number of years of record, and m is the order of magnitude of flood, the highest being 1.
5. Preparing flood-frequency curve or curves for each station.
6. Testing the flood data for homogeneity.
7. Computing the median flood ratios.
8. Plotting the median flood ratios and drawing a regional frequency curve.
9. Plotting the mean annual floods versus the drainage areas and drawing a curve or curves to show the relation applicable for the hydrologic area.
10. Determining the frequency relation for the mean stems of the large streams that traverse or receive their flow from more than one hydrologic area.

The relationships that are defined by this method for a homogeneous region and for the hydrologic areas within the region are

assumed, within the limits of the data, to be applicable to all points on streams, gaged or ungaged, within the region.

FLOOD FREQUENCY AT A GAGING STATION

Flood data for a gaging station may be analyzed (1) as an annual flood series and (2) as a partial-duration series, or floods above a base.

An annual flood is defined as the highest momentary peak discharge in the water year (October 1 to September 30). Only the greatest flood in each water year is used in an annual flood series, which is a complete-duration series and is susceptible of mathematical analysis by several methods, of which Gumbel's (1945a) method is an example. The annual flood series has the disadvantage that when several high floods occur in the same water year, some floods higher than many annual floods are disregarded.

The partial-duration series overcomes the objection of not considering all high floods by listing all floods above a selected base discharge. The base selected is such that an average of 3 or 4 floods per year will exceed the base. In some water years the floods may not exceed the base. Thus the partial-duration series is discontinuous and is not susceptible of rigorous mathematical analysis. Another objection to the use of the partial-duration series is that the floods listed may not be fully independent events. Because one flood will at times set the stage for another, arbitrary rules must be formulated for selecting the peaks to be included. Furthermore, the damage resulting from several floods occurring within a relatively short period of time may be only a little greater than that resulting from only a single flood.

There is an important distinction in meaning between the recurrence intervals of annual floods and the recurrence intervals of partial-duration series floods. In the annual flood series, the recurrence interval is the average interval of time within which a given flood will be equaled or exceeded once as an annual maximum. In the partial-duration series, the recurrence interval is the average interval between floods of a given size regardless of their relationship to the year or any other period of time. This distinction remains, even though for the large floods the recurrence intervals are practically the same in both series. The two methods give practically identical results for intervals greater than about 10 years. As most designs are for intervals greater than 10 years, there is little practical difference in choice between types. The annual-flood-series method has been used in the analysis for this report; but in the compilation of flood records, all floods above the base are listed if the data warrant.

From statistical principles, there is a definite relationship between the values in the two series as shown in the following table by Langbein (1949):

<i>Recurrence intervals, in years</i>			
<i>Annual flood series</i>	<i>Partial-duration series</i>	<i>Annual flood series</i>	<i>Partial-duration series</i>
1. 16-----	0.5	10.5-----	10
1. 58-----	1.	20.5-----	20
2. 00-----	1.45	50.5-----	50
2. 54-----	2.00	100.5-----	100
5. 52-----	5.		

When it is desirable to know how often, on the average, a stream will exceed a certain discharge (as, for example, in the design of a low fill across a valley upon which is built a road and which would allow the higher floods to flow over the road), the frequency curve based on the partial-duration series should be used. The simplest way to do this is to convert the curve based on the annual flood series by use of the relation expressed in the table just given, and the results will be adequate.

RECORDS USED

The annual flood data used in the analysis for this report were obtained from records of gage height and discharge that were collected by the Geological Survey and other agencies.

Peak discharge records 10 or more years in length for 233 gaging stations in part 2-A, not materially affected by regulation and diversion, were used in the analysis. In addition to these, records for 24 stations in part 1-B, 20 stations in part 2-B, 13 stations in part 3-A, and 80 stations in part 3-B were used in order to obtain adequate coverage within and along the boundary of part 2-A. Records at 19 other stations in part 2-A 10 or more years in length were not used, because the data are principally of spring flow, the stations are on streams materially affected by regulation or diversion, or the period of record was outside the base periods. Records on lakes, reservoirs, and canals were not used. Where two or more stations have been operated on a stream and where the drainage area of one is not more than 25 percent larger than that of one of the others, they were not considered independent, and the records were combined by adjusting the record of one to that of the other on the basis of drainage-area ratio. Of the 233 gaging-station records used, 24 were combined with others to provide point data for 209 locations in part 2-A. The analysis is based on annual floods at these 209 locations.

Plate 3 is a map of part 2-A showing the approximate location of gaging stations for which records have been compiled in this report. Difference in symbols used identifies the stations for which records were used in the analysis.

The flood records used in this analysis range from 10 to 79 years in length, and many are relatively short. In order to reduce the task of estimating a large number of flood discharges for periods of no record, three base periods were selected, 1896-1959, 1926-59, and 1940-59. Where a station record was incomplete during a base period, computation figures for the missing annual floods were estimated and order numbers computed for the known discharges. Depending upon the length of record at each station, recurrence intervals were computed and flood-frequency graphs plotted for one, two, or three base periods.

FITTING FREQUENCY GRAPHS

The frequency graphs were prepared on a special form (Powell, 1943) for analysis of flood frequencies by the theory of extreme values. Figure 10 is a flood-frequency plot for the record of Tar River at Tarboro, N.C. A smooth curve was fitted visually and gives less weight to the extreme values whose true recurrence interval may not be known.

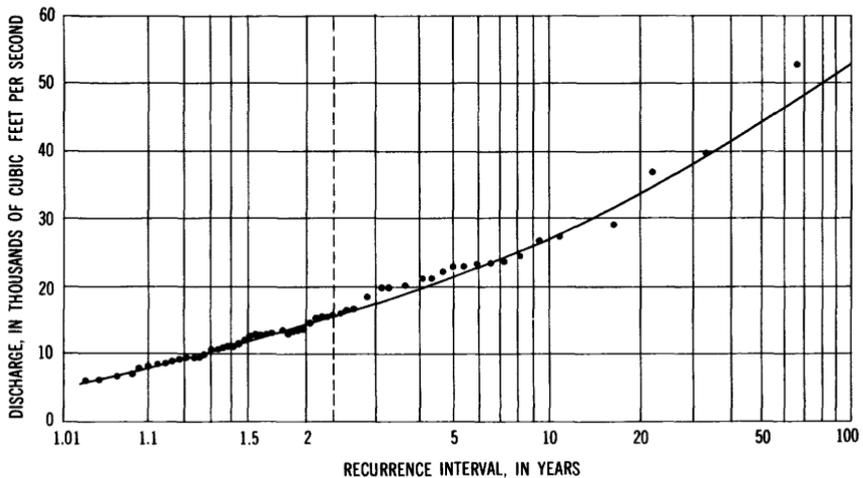


FIGURE 10.—Flood-frequency curve for Tar River at Tarboro, N.C.

REGIONAL FLOOD FREQUENCY

Two basic relationships are used in the regional flood-frequency analysis. One relates the mean annual flood to significant basin characteristics, and the other relates the discharge, in ratio to mean annual flood, to the recurrence interval. Before these relationships can be developed, the station frequency curves are tested to ascertain if the whole area under study can be treated as a homogenous region or should be broken down into two or more regions.

HOMOGENEITY TEST

The homogeneity test involves determining whether differences in slopes of individual frequency curves between the 2.33- and 10-year recurrence intervals are greater than those that might occur by chance in random sampling. The test is based on a 95-percent confidence limit which statistically is about equal to 2 standard errors. Of the 209 point data used in the analysis for part 2-A, 199, or 95 percent, plotted within this limit. This fact indicates that the part can be considered as one homogeneous region. The entire part was, therefore, analyzed as one flood region.

MEAN ANNUAL FLOOD

The basic relationships for determining the magnitude and frequency of floods in part 2-A are dependent upon the mean annual flood. The mean annual flood on a station-frequency curve is the graphical mean determined by the intersection of the visually best-fitting frequency line with the line corresponding to the 2.33-year recurrence interval. This graphical mean is reasonably stable and is used as an indication of the flood potentiality of streams having similar physical characteristics. It gives greater weight to the floods of average magnitude and is not seriously influenced by the floods of extreme magnitude. In figure 10 the mean annual flood for the Tar River at Tarboro, N.C., is 15,900 cubic feet per second. The mean annual flood for each of the 209 point data used in the analysis for part 2-A was computed and adjusted to the longest base period, 1896-1959, on the basis of the average ratio. This ratio was determined from the mean annual floods computed for all three periods for the gaging stations where the records for all three base periods are available. The ratios found applicable in adjusting the mean annual flood to the longest period in this study are 1.10 for the period 1940-59 and 1.08 for the period 1926-59.

In a homogeneous area, the dominant factor readily obtainable to which the mean annual flood can be related is the size of the drainage area. This factor has been used to develop the relationships in plate 2 and to delineate part 2-A into the hydrologic areas shown in plate 1. Changes in flood-flow characteristics as expressed in the mean annual flood with respect to size of drainage area are probably gradual rather than sharp, as might be inferred from the delineations of the hydrologic areas. To simplify the application of the method, the areas have been delineated as closely as the base data permit.

FLOOD EQUATIONS

The formula used in this report to relate flood discharge to basin characteristics is:

$$Q=f(a, b, c, d, \dots) \quad (1)$$

in which the discharge, Q , is expressed as a function of basin characteristics, a, b, c, d, \dots . The most significant basin characteristic known for computation of flood discharge is the size of the drainage area. Other physiographic and meteorologic factors are much less susceptible of rigorous analysis and are interdependent. Furthermore, any one or more of the other factors may vary widely within a drainage basin and would render an analysis of the factor more difficult. The relations of the discharge in this report are, therefore, expressed principally as a function of the drainage area, and, as the basic element of discharge used is the mean annual flood, $Q_{2.33}$, equation (1) can be written,

$$Q_{2.33}=CA^x \quad (2)$$

in which A is the drainage area in square miles, and C is an empirical coefficient expressing the effect of other factors.

The hydrologic-area curves in plate 2 are expressions of this equation. To determine the equation for any of the curves, C is the figure for $Q_{2.33}$ at which the curve intercepts 1 on the drainage-area scale, and the exponent x is the slope of the curve. Thus, for curve 1 the equation becomes

$$Q_{2.33}=256(A)^{0.66} \quad (3)$$

or

$$\log Q_{2.33}=\log 256+0.66(\log A) \quad (4)$$

Similarly, equations for curves 2-5 are as follows:

$$\text{Curve 2: } Q_{2.33}=151 A^{0.70} \quad (5)$$

$$\text{Curve 3: } Q_{2.33}=84.0 A^{0.745} \quad (6)$$

$$\text{Curve 4: } Q_{2.33}=39.7 A^{0.795} \quad (7)$$

$$\text{Curve 5: } Q_{2.33}=15.6 A^{0.85} \quad (8)$$

COMPOSITE FREQUENCY CURVE

The flood-frequency graph for an individual station represents random samples of the relationship of the flood discharges observed during a particular period to the frequency at which the discharges occurred. The slope of this point relationship may differ from one station to another, and the extension of these curves to ascertain the discharges of floods at higher recurrence intervals may result in unreliable estimates. If two or more point relationships are available, there is no basis for determining which point relationship may be the more nearly correct one to use on a stream or within an area. Furthermore, the need for flood-frequency data at ungaged sites cannot be met with point data.

To overcome these disadvantages, dimensionless flood-frequency relations were defined for each of the 209 locations used in the analysis for part 2-A by computing first the ratios of the discharge of floods at recurrence intervals of 1.1, 1.5, 5, 10, 20, and 50 years to the mean annual flood and then by computing the medians of these ratios. These medians were used to develop the composite dimensionless regional flood-frequency curve shown in figure 2.

LIMITS OF PROBABLE ACCURACY

In 1952, Benson (1960) made a study of the maximum and minimum values of the 10-, 25-, 50-, and 100-year floods as determined graphically from records of various lengths for 80, 95, and 100 percent of the time. In the study, an array of 1,000 hypothetical annual floods distributed according to the theory of extreme values (Gumbel, 1945b) was analyzed, and the results were compared with the known characteristics of the base curve to ascertain the probable range of accuracy with which the magnitude of a flood of a given recurrence interval might be determined using flood records of various lengths. The following table based on Benson's study shows the length of record necessary to define floods of selected frequency within 10 and 25 percent of the correct long-term (1,000-year) value.

Length of record, in years, required to define floods of selected frequency within indicated percentage of correct value 95 percent of the time

Magnitude of flood (years)	Length of record (years)	
	Within 25 percent of correct value	Within 10 percent of correct value
2.33-----	12	40
10-----	18	90
25-----	31	105
50-----	39	110

The foregoing table shows that at least 12 years of record should be available for a station to determine the mean annual flood within 25 percent of the correct value 95 percent of the time. In using records as short as 10 years in length in the analysis, it may seem to the casual observer that the expected accuracy of the results may be depreciated to some extent. It should be kept in mind, however, that the shortest records used were adjusted to the shortest base period, 1940-59 (20 years) by first estimating figures for the missing annual floods and by then computing the recurrence intervals for the known discharges on the basis of all 20 annual floods. It is assumed that by so doing, the effective length of the 10-year record is increased by 50 percent, or to 15 years. The observed mean annual flood computed

on basis of the 10-year record is also adjusted by an empirical factor determined from the longest period (64-year period 1896-1959) which further increases the effective length of the shorter records.

Extrapolation of the regional flood-frequency curve beyond the 50-year recurrence interval is not recommended; however, if desired, the discharge of a flood of greater recurrence interval may be computed, with an attending reduction in expected accuracy, by extending the regional flood-frequency curve.

SUMMARY

This report describes a method of estimating the magnitude and frequency of floods on all streams not subject to significant regulation or diversion in part 2-A, South Atlantic slope basins, James River to Savannah River. Also, complete flood records for gaging stations are compiled and a summary of miscellaneous maximum discharges is made. A summary table of the maximum stage and discharge at each gaging station provides the user with information important in design considerations.

The method is dependent on two relationship curves—one of mean annual flood to size of drainage area and another of dimensionless peak discharge to recurrence interval. The combination of these two curves provides a means of determining a frequency curve for any location, gaged or ungaged. Five hydrologic areas are defined on a map and have individual curves of mean annual flood versus drainage area. Seven main-stem rivers have individual curves of mean annual flood versus distance above mouth. One dimensionless discharge-frequency curve is applicable to the whole region. The relationships are valid for drainage areas greater than 30 square miles and for recurrence intervals as great as 50 years.

The method can be used to estimate the magnitude of a flood of selected frequency or to estimate the recurrence interval of a flood of known magnitude.

The analysis of data follows the method outlined by D'Irymple (1960). Annual peak discharges recorded at 209 locations were used. Mean annual floods were derived graphically from individual station discharge-frequency curves adjusted to a common base period. The relationships of mean annual flood to drainage area were developed graphically in the functional form:

$$Q_{2.33} = CA^x$$

or

$$\log Q_{2.33} = \log C + x \log A$$

A frequency curve representing the median position of all the station frequency curves was found by the homogeneity test to be applicable to the whole of part 2-A.

The reliability of the method is discussed on the basis of a study made by Benson (1960).

FLOOD RECORDS AT GAGING STATIONS

Peak stages and discharges for 441 streamflow and selected stage stations are tabulated with station descriptions in the rest of the report. Most of these records are from stations operated by the Geological Survey in cooperation with other Federal agencies, States, and municipalities. Some records have been furnished by corporations and private individuals and by other Federal agencies. If the data for any station are furnished by or compiled from reports or publications of another agency proper credit to the agency is shown in the station description.

EXPLANATION OF THE DATA

The data presented for each station includes a station description and a table of peak stages, discharges, or both. The station description gives the location, drainage area, type of gage, the means by which the stage-discharge relation is defined over the range of discharges given in the table, bankfull stage if known, historical data of a general or relative nature that cannot be included in the table, and general remarks concerning the data.

Each station is referenced by a number to the left of the title which corresponds to the number shown on the general location map (pl. 3).

Bankfull stage is the gage height above which extensive overflow occurs on one or both banks in the vicinity of the gage. This stage is determined by field observation; minor flooding of unimportant low areas adjacent to the stream is not considered in arriving at a figure for bankfull stage. Another closely associated term is "flood stage," which is defined as the stage at which flood damage begins. This term has been used by the U.S. Weather Bureau, and data for all stations furnished by the Weather Bureau are appropriately credited.

The stations are arranged in downstream order which corresponds to the order used in the annual reports of the Geological Survey on surface water supply beginning with the 1951 series. In a downstream direction along the main stem, all stations on a tributary entering above a main-stem station are listed before that station. If a tributary enters between two main-stem stations, it is listed between them. A similar order is followed in listing stations on tributaries of first rank, second rank, and other ranks.

The paragraph under "remarks" gives, among other information, the period for which only annual peaks are shown in the table; and if any portion of the record is tabulated on the basis of the partial-duration series or peaks above a base, the base discharge is given.

For most stations the table lists peak stages and discharges above a base discharge. Peak discharges unless otherwise noted are the instantaneous peaks in cubic feet per second (cfs). They generally are computed directly from the peak gage heights by means of the stage-discharge relation. For stations controlled by storage or where the data did not warrant computation of peaks above a base, particularly for earlier years, only annual floods are listed. In some records, principally older ones or ones obtained from other sources, data are not available for determining peak discharges, and therefore only peak stages are shown. For a few stations, rate of change of stage was used as an additional factor in computing the discharge. The peak discharge at those stations may not have occurred at the same time as the peak stage; however, the figures listed for both stage and discharge are the maximum for that particular flood, and footnotes indicate that peak stage and discharge were not concurrent.

No distinction is made between annual peaks and peaks for partial-duration series. If one desires to use the tabulation for partial-duration studies, annual peaks below the base discharge must be deleted. Years with incomplete records which may not be used in the partial-duration series are footnoted.

The peaks are arranged by the water year, which ends September 30 and begins October 1 of the preceding calendar year. Dates on which the peaks occurred are calendar-year dates. Thus, a peak which occurred on November 15, 1941, would be listed in the 1942 water year.

The gage heights were generally obtained from water-stage recorder graphs or from graphs based on gage readings by an observer. A few of the gage heights are the maximum observed. Many of the gage heights shown for major floods outside the period of record were obtained by leveling to floodmarks pointed out by local residents, from flood profiles furnished by other Federal agencies, and from other sources.

Underlines in the tabular data have the following significance:

1. A horizontal line in "Water year" column indicates discontinuous record.
2. A line across the "Gage height" column indicates a change in gage datum and means that the gage heights above and below the line are not comparable.

3. Lines across the "Date" and "Discharge" columns indicate a change in the site that significantly affects the stage-discharge relation.
4. No underlines are used if changes in site and datum have been adjusted to present conditions.

115. Back Creek near Mountain Grove, Va.

Location.--Lat 38°04'10", long 79°53'50", 0.4 mile downstream from Cummings Run, 0.9 mile downstream from bridge on State Highway 39, and 2.1 miles south of Mountain Grove, Bath County.

Drainage area.--131 sq mi.

Gage.--Recording. Altitude of gage is 1,707 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above on the basis of three slope-area measurements.

Bankfull stage.--7 ft.

Historical data.--Flood of November 1877 was estimated to have reached about the same stage as that of March 1913, from information by a local resident.

Remarks.--Since July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1913	March 1913	a17	-	1955	Oct. 15, 1954	9.35	8,750	
1951	December 1950	8.2	5,940	1955	Dec. 30, 1954	7.30	4,170	
				1955	Feb. 6, 1955	6.83	3,500	
1952	Dec. 21, 1951	5.31	1,750	1955	Mar. 5, 1955	8.77	7,310	
	Jan. 18, 1952	5.24	1,700	1955	Mar. 22, 1955	7.96	5,510	
	Jan. 27, 1952	5.57	2,000	1956	Mar. 14, 1956	5.40	1,850	
	Mar. 11, 1952	8.70	7,110					
	Mar. 23, 1952	5.32	1,750	1957	Jan. 23, 1957	5.81	2,260	
May 10, 1952	5.32	1,750	1957		Jan. 29, 1957	6.21	2,700	
1953	Dec. 11, 1952	5.26	1,700	1957	Apr. 5, 1957	7.28	4,170	
	Jan. 24, 1953	5.02	1,480	1958	Dec. 8, 1957	5.40	1,850	
	Feb. 21, 1953	9.05	7,800		1958	Dec. 26, 1957	6.55	3,110
	Mar. 4, 1953	5.08	1,570		1958	Feb. 7, 1958	5.12	1,500
	Mar. 24, 1953	7.40	4,460		1958	Mar. 31, 1958	5.14	1,540
1954	Mar. 1, 1954	8.98	7,790	1959	June 2, 1959	6.69	3,300	
	July 15, 1954	8.97	7,790					

a From information by local resident.

125. Jackson River at Falling Spring, Va.
(Published as "at Barber" prior to 1935)

Location.--Lat 37°52'36", long 79°58'39", on right bank 20 ft upstream from Smith Bridge, 0.8 mile south of town of Falling Spring, Alleghany County, 1.6 miles downstream from Falling Springs Creek, and 5.5 miles north of Covington.

Drainage area.--409 sq mi.

Gage.--Nonrecording prior to Oct. 26, 1934; recording thereafter. Datum of gage is 1,333.49 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of records for other stations in James River basin.

Bankfull stage.--11 ft.

Remarks.--Only annual peaks are shown prior to 1935 water year. Base for partial-duration series, 4,000 cfs.

JAMES RIVER BASIN

Peak stages and discharges of Jackson River at Falling Spring, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	20	50,000	1946	Jan. 8, 1946	11.06	10,900
1925	May 12, 1925	6.04	1,390	1947	Jan. 21, 1947	8.87	4,680
1926	Jan. 19, 1926	9.7	6,680	1947	Mar. 15, 1947	9.12	5,220
1927	Nov. 16, 1926	10.90	10,300	1948	Feb. 14, 1948	11.33	11,600
1928	May 1, 1928	3.0	4,890	1948	Mar. 24, 1948	8.74	4,480
1929	Feb. 28, 1929	10.4	8,680	1948	Apr. 14, 1948	10.62	9,300
1930	Nov. 18, 1929	12.0	14,000	1949	Nov. 29, 1948	8.86	4,780
1931	Mar. 29, 1931	7.9	3,100	1949	Dec. 4, 1948	9.85	7,080
1932	May 1, 1932	11.0	10,600	1949	Dec. 15, 1948	9.68	6,680
1933	Mar. 19, 1933	10.0	7,500	1949	Jan. 6, 1949	10.30	6,380
1934	Mar. 28, 1934	10.5	8,980	1949	Apr. 14, 1949	12.97	17,800
1935	Dec. 1, 1934	10.30	8,380	1949	June 29, 1949	9.17	5,330
1935	Jan. 23, 1935	12.32	15,100	1949	July 20, 1949	8.83	4,680
1935	Mar. 13, 1935	9.37	5,900	1950	Nov. 2, 1949	9.84	7,080
1935	Apr. 1, 1935	9.77	4,480	1950	Dec. 27, 1949	8.73	4,480
1935	Sept. 5, 1935	9.50	6,160	1950	Feb. 2, 1950	10.58	7,210
1936	Jan. 3, 1936	8.83	4,680	1950	Sept. 10, 1950	9.45	4,790
1936	Feb. 14, 1936	9.83	7,080	1950	Sept. 13, 1950	10.49	6,970
1936	Mar. 17, 1936	14.74	24,700	1951	Dec. 4, 1950	11.31	8,970
1936	Apr. 6, 1936	9.54	6,290	1951	Dec. 8, 1950	14.11	17,600
1937	Dec. 7, 1936	8.94	4,890	1951	Feb. 2, 1951	10.34	7,360
1937	Jan. 2, 1937	9.13	5,330	1951	Feb. 22, 1951	8.97	4,570
1937	Jan. 20, 1937	11.19	11,300	1951	Mar. 31, 1951	10.02	6,700
1937	Apr. 26, 1937	9.74	6,810	1951	Apr. 9, 1951	8.78	4,210
1938	Oct. 20, 1937	8.39	5,000	1951	Apr. 13, 1951	9.65	5,820
1938	Oct. 28, 1937	10.92	10,300	1951	June 13, 1951	11.23	9,340
1939	Jan. 30, 1939	11.28	11,600	1952	Mar. 11, 1952	12.28	11,600
1939	Feb. 4, 1939	11.09	10,900	1953	Feb. 21, 1953	12.43	15,500
1939	Apr. 16, 1939	8.58	4,180	1953	Mar. 24, 1953	11.20	11,300
1939	July 30, 1939	8.93	4,890	1954	Mar. 1, 1954	11.55	12,600
1940	Apr. 20, 1940	10.03	7,500	1954	July 15, 1954	10.60	9,300
1940	May 25, 1940	8.73	4,480	1955	Oct. 16, 1954	11.86	13,700
1940	May 31, 1940	9.80	6,940	1955	Dec. 30, 1954	10.24	8,080
1940	June 18, 1940	9.04	5,110	1955	Feb. 7, 1955	10.34	8,380
1940	Aug. 7, 1940	8.98	5,000	1955	Mar. 5, 1955	11.79	13,300
1940	Aug. 16, 1940	8.71	4,030	1955	Mar. 22, 1955	10.79	9,940
1941	Apr. 5, 1941	7.14	2,290	1956	Mar. 15, 1956	8.32	3,600
1942	May 16, 1942	13.65	20,100	1957	Jan. 30, 1957	9.12	5,240
1942	May 22, 1942	10.94	10,300	1957	Apr. 5, 1957	11.24	10,900
1943	Dec. 30, 1942	9.78	6,940	1958	Dec. 26, 1957	9.46	6,080
1943	Mar. 13, 1943	11.32	11,600	1958	Apr. 1, 1958	8.89	4,780
1943	Apr. 20, 1943	9.39	5,920	1958	May 6, 1958	9.20	5,480
1943	July 9, 1943	8.95	4,890	1959	June 3, 1959	9.62	6,440
1944	Feb. 23, 1944	8.5	4,000				
1945	Jan. 2, 1945	8.5	4,000				

129. Jackson River at Covington, Va.

Location.--Lat 37°47'50", long 79°59'40", at footbridge leading to the West Virginia Pulp and Paper Co.'s mill just upstream from the Chesapeake & Ohio Railway bridge at Covington, Alleghany County, 0.2 mile upstream from Dunlap Creek.

Drainage area.--440 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 1,220 ft (from topographic map).

Bankfull stage.--7 ft.

Remarks.--Records since September 1949 are from unpublished records of the U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges of Jackson River at Covington, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Feb. 15, 1908	10	-	1953	Feb. 21, 1953	11.3	-
1913	March 1913	a22	-	1954	Mar. 1, 1954	10.0	-
				1955	Mar. 6, 1955	10.0	-
				1956	Mar. 15, 1956	4.8	-
1936	Mar. 18, 1936	18	-	1957	Apr. 5, 1957	9.8	-
1950	Feb. 2, 1950	8.8	-	1958	Mar. 31, 1958	b7.4	-
				1959	June 3, 1959	6.0	-
				1952	Mar. 12, 1952	7.2	-

a From Corps of Engineers' floodmark.
 b Probably reached higher stage Dec. 26, 1957.

130. Dunlap Creek near Covington, Va.

Location.--Lat 37°48'10", long 80°02'50", on right bank 20 ft downstream from bridge on U. S. Highway 60, 2.2 miles downstream from Ogle Creek, and 3.0 miles west of Covington, Alleghany County.

Drainage area.--166 sq mi.

Gage.--Nonrecording prior to Dec. 8, 1949; recording thereafter. Datum of gage is 1,294.21 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs and extended to 8,370 cfs on basis of velocity-area studies and records for other stations in James River basin.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1913	March 1913	a18	-	1951	Apr. 12, 1951	5.83	2,560	
1929	Feb. 27, 1929	7.5	4,080	1952	Mar. 11, 1952	8.68	5,700	
1930	Nov. 18, 1929	9.7	7,300		Apr. 28, 1952	6.01	2,740	
1931	Mar. 28, 1931	5.5	2,140	1953	Feb. 21, 1953	7.04	3,720	
1932	May 1, 1932	8.7	5,580		Mar. 4, 1953	5.65	2,380	
1933	Mar. 19, 1933	8.5	5,300		Mar. 24, 1953	7.02	3,720	
1934	Mar. 8, 1934	7.2	3,760	1954	Mar. 1, 1954	10.10	7,770	
1935	Jan. 23, 1935	10.0	7,900		July 19, 1954	5.83	2,560	
					July 22, 1954	5.40	2,200	
1936	Mar. 17, 1936	10.52	8,370	1955	Oct. 15, 1954	8.00	4,830	
1937	Jan. 20, 1937	9.1	6,200		Dec. 30, 1954	5.29	2,110	
1938	Oct. 27, 1937	8.0	4,660		Feb. 7, 1955	7.48	4,250	
1939	Jan. 30, 1939	7.48	4,160		Mar. 1, 1955	7.48	4,250	
1940	Aug. 14, 1940	10.3	8,050		Mar. 6, 1955	10.14	7,770	
1941	Mar. 12, 1941	4.2	1,150	1956	Mar. 14, 1956	5.83	2,560	
1942	May 22, 1942	8.7	5,580			Apr. 16, 1956	5.43	2,240
1943	Mar. 15, 1943	8.6	5,440		1957	Jan. 29, 1957	7.38	4,140
1944	Mar. 24, 1944	5.5	2,140	Feb. 9, 1957		5.41	2,200	
1945	Jan. 1, 1945	5.6	2,230	Mar. 1, 1957		5.68	2,470	
1946	Jan. 8, 1946	7.0	3,560		Apr. 5, 1957	8.53	5,440	
1947	Mar. 14, 1947	6.3	2,860	1958	Feb. 7, 1958	5.61	2,380	
1948	Feb. 14, 1948	10.2	8,300		Mar. 27, 1958	5.51	2,290	
1949	Apr. 13, 1949	10.1	8,100		Mar. 31, 1958	8.56	5,570	
1950	Nov. 2, 1949	7.2	3,760		Apr. 23, 1958	5.36	2,160	
	Feb. 2, 1950	7.28	4,030		May 6, 1958	5.59	2,380	
1951	Dec. 4, 1950	5.81	2,560		July 26, 1958	8.07	4,950	
	Dec. 7, 1950	8.40	5,310		Aug. 4, 1958	5.93	2,650	
	Mar. 18, 1951	5.88	2,650	1959	Apr. 12, 1959	6.06	2,830	
	Mar. 30, 1951	8.59	5,570					
	Apr. 9, 1951	5.58	2,380					

a From information by local resident.

140. Potts Creek near Covington, Va.

Location.--Lat 37°44'10", long 80°01'55", near center span on downstream side of highway bridge, 0.2 mile upstream from Hays Creek and 3.2 miles southwest of Covington, Alleghany County.

Drainage area.--158 sq mi.

Gage.--Nonrecording. Crest-stage gage installed Mar. 16, 1950. At site 80 ft downstream prior to Sept. 2, 1954, at same datum. Datum of gage is 1,259.23 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs and extended to 9,710 cfs on basis of velocity-area studies, for the period 1929-54. Subsequently defined by current-meter measurements below 6,200 cfs. Major shift occurred during 1954, probably caused by channel changes made at time new bridge was constructed.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a12	-	1949	Apr. 13, 1949	9.32	8,200
				1950	Feb. 2, 1950	5.32	2,590
1913	March 1913	a12.5	-	1951	Dec. 4, 1950	6.09	3,380
1929	Feb. 27, 1929	4.9	2,230		Dec. 7, 1950	8.70	7,130
1930	Nov. 18, 1929	7.0	4,460		Mar. 30, 1951	7.71	5,480
					Apr. 12, 1951	5.68	2,970
1931	May 23, 1931	3.8	1,310		June 13, 1951	5.63	2,870
1932	May 1, 1932	4.9	2,230				
1933	Nov. 9, 1932	4.5	1,870	1952	Jan. 23, 1952	5.35	2,680
1934	Mar. 28, 1934	6.0	3,270		Mar. 11, 1952	9.10	7,840
1935	Jan. 23, 1935	10.10	9,710		Mar. 24, 1952	5.12	2,410
1936	Mar. 17, 1936	9.52	8,570	1953	Feb. 21, 1953	7.00	4,460
1937	Jan. 20, 1937	6.9	4,330		Mar. 24, 1953	7.43	5,030
1938	Oct. 28, 1937	5.6	2,870				
1939	Jan. 30, 1939	5.06	2,410	1954	Jan. 17, 1954	7.80	5,640
1940	Aug. 14, 1940	7.9	5,800		Jan. 23, 1954	5.60	2,870
					Mar. 1, 1954	9.90	9,350
1941	July 7, 1941	4.82	2,140		Mar. 26, 1954	5.65	2,870
1942	May 16, 1942	8.58	6,960		Apr. 7, 1954	5.35	2,680
1943	Dec. 30, 1942	5.9	3,170	1955	Oct. 15, 1954	9.18	5,960
1944	Feb. 29, 1944	4.3	1,710		Feb. 7, 1955	6.97	3,790
1945	Mar. 6, 1945	5.1	2,410		Mar. 1, 1955	6.35	3,250
1946	Jan. 8, 1946	4.9	2,230		Mar. 6, 1955	9.67	6,460
1947	Mar. 14, 1947	5.3	2,590				
1948	Feb. 14, 1948	7.72	5,480	1956	Apr. 16, 1956	4.95	2,000

a From information by local residents.

145. Smith Creek above old dam, near Clifton Forge, Va.

Location.--Lat 37°51'10", long 79°50'50", on left abutment of bridge on city of Clifton Forge highway, 0.2 mile upstream from old water-supply dam, 0.8 mile upstream from new water-supply dam, 3.1 miles northwest of Clifton Forge, Alleghany County, and about 3.5 miles upstream from mouth.

Drainage area.--12.4 sq mi.

Gage.--Nonrecording; crest-stage gage after August 1953. Altitude of gage is 1,406 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 760 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Smith Creek above old dam, near Clifton Forge, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	July 18, 1947	4.4	342	1952	Mar. 11, 1952	4.90	447
1948	Nov. 3, 1947	5.5	600	1953	Mar. 24, 1953	5.95	752
1949	Apr. 13, 1949	6.0	752	1954	Mar. 1, 1954	4.08	282
1950	May 15, 1950	3.69	214	1955	Mar. 6, 1955	4.75	425
1951	Dec. 7, 1950	7.30	1,200	1956	Mar. 14, 1956	3.25	155

156. Cowpasture River near Headwaters, Va.

Location.--Lat 38°19'30", long 79°26'14", on left downstream side of bridge on U. S. Highway 250, 1.2 miles west of Headwaters, Highland County, and 3 miles upstream from Shaw Fork.

Drainage area.--11.3 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,985.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 187 cfs and extended on basis of contracted-opening measurements at 900 cfs and 5,650 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 19, 1949	6.5	5,650	1955	Oct. 15, 1954	5.19	900
1950	Sept. 12, 1950	4.2	340	1956	Mar. 14, 1956	3.64	200
1951	Dec. 7, 1950	5.0	740	1957	Apr. 5, 1957	4.13	320
1952	Mar. 11, 1952	4.84	620	1958	Dec. 26, 1957	2.97	110
1953	Feb. 21, 1953	5.0	740	1959	June 2, 1959	4.10	305
1954	Mar. 1, 1954	5.07	810				

160. Cowpasture River near Clifton Forge, Va.

Location.--Lat 37°47'30", long 79°45'35", on left bank 100 ft downstream from highway bridge, 2.5 miles upstream from confluence with Jackson River, and 4.0 miles southeast of Clifton Forge, Alleghany County.

Drainage area.--456 sq mi.

Gage.--Nonrecording prior to Oct. 27, 1934; recording thereafter. At different datum May 1907 to August 1908. Datum of gage is 1,006.93 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of records for other stations in James River basin.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1934. Base for partial-duration series, 5,000 cfs.

JAMES RIVER BASIN

Peak stages and discharges of Cowpasture River near Clifton Forge, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	June 14, 1907	10.5	13,000	1943	May 20, 1943	8.68	6,930
1908	Jan. 12, 1908	9.5	11,000		June 7, 1943	8.07	5,960
1913	March 1913	a20.8	45,000	1944	May 7, 1944	8.31	6,280
1926	Jan. 19, 1926	9.1	7,610	1945	Sept. 19, 1945	8.67	6,930
1927	Dec. 26, 1926	10.0	9,240	1946	Jan. 8, 1946	9.77	8,860
1928	Oct. 13, 1927	9.7	8,580	1947	Jan. 21, 1947	7.83	5,500
1929	Feb. 27, 1929	9.0	7,440		Mar. 15, 1947	9.22	7,780
	Feb. 28, 1929	9.0	7,440	1948	Feb. 15, 1948	9.08	7,610
1930	Nov. 18, 1929	9.88	9,050		Mar. 24, 1948	8.11	5,960
1931	Mar. 29, 1931	5.99	3,090	1949	Nov. 29, 1948	8.52	6,600
1932	Feb. 5, 1932	9.90	9,050		Dec. 4, 1948	10.75	10,600
1933	Oct. 18, 1932	9.15	7,780		Dec. 16, 1948	8.00	5,800
	Apr. 17, 1933	9.15	7,780		Jan. 6, 1949	8.82	7,100
1934	Mar. 28, 1934	8.80	7,100		Apr. 14, 1949	11.86	13,200
1935	Dec. 1, 1934	10.08	9,430		June 18, 1949	13.32	16,400
	Jan. 23, 1935	13.78	17,700		Aug. 3, 1949	7.88	5,650
	Mar. 13, 1935	8.92	7,270	1950	Nov. 2, 1949	8.98	7,440
	Apr. 1, 1935	8.10	5,960		Jan. 31, 1950	8.74	6,930
	Sept. 6, 1935	10.18	9,620		Feb. 2, 1950	9.36	8,140
1936	Jan. 4, 1936	8.04	5,800		Sept. 10, 1950	8.93	7,270
	Jan. 19, 1936	7.77	5,500		Sept. 13, 1950	12.17	13,900
	Feb. 27, 1936	7.58	5,200	1951	Dec. 5, 1950	11.20	11,600
	Mar. 18, 1936	16.62	34,200		Dec. 8, 1950	11.23	11,600
	Apr. 6, 1936	9.24	7,780		Feb. 8, 1951	7.82	5,500
1937	Oct. 17, 1936	7.66	5,350		Mar. 31, 1951	9.34	7,960
	Jan. 2, 1937	9.07	7,610		Apr. 13, 1951	6.10	5,960
	Jan. 21, 1937	11.57	12,500		June 13, 1951	11.98	13,400
	Apr. 26, 1937	8.83	7,100	1952	Mar. 12, 1952	12.16	13,900
1938	Oct. 20, 1937	11.56	12,500	1953	Dec. 11, 1952	7.86	5,650
	Oct. 28, 1937	10.24	9,620		Feb. 22, 1953	12.63	14,800
	Jan. 25, 1938	7.63	5,200		Mar. 24, 1953	10.94	11,000
	Aug. 6, 1938	9.39	8,140	1954	Mar. 2, 1954	11.43	12,100
	Aug. 9, 1938	9.79	8,860	1955	Oct. 16, 1954	10.76	10,800
1939	Jan. 31, 1939	10.69	10,600		Dec. 30, 1954	9.68	8,680
	Feb. 4, 1939	11.10	11,400		Feb. 7, 1955	6.84	7,100
	July 30, 1939	8.47	6,600		Mar. 6, 1955	11.15	11,600
1940	May 31, 1940	11.09	11,400		Mar. 26, 1955	9.15	7,780
	June 13, 1940	7.64	5,200	1956	Mar. 15, 1956	6.97	4,350
	June 19, 1940	7.58	5,200	1957	Apr. 6, 1957	11.57	12,500
	Aug. 17, 1940	8.12	5,960	1958	Dec. 27, 1957	7.39	5,400
1941	Apr. 6, 1941	6.61	3,830		Apr. 1, 1958	7.68	5,850
1942	May 17, 1942	14.07	18,500	1959	June 3, 1959	9.52	8,950
	May 23, 1942	12.10	13,600		Sept. 30, 1959	7.94	6,150
1943	Oct. 16, 1942	7.49	5,050				
	Dec. 30, 1942	10.32	9,810				
	Mar. 14, 1943	10.93	11,000				
	Apr. 20, 1943	7.88	5,650				

a From information by local resident.

165. James River at Lick Run, Va.

Location.--Lat 37°46'25", long 79°47'05", on right bank 10 ft downstream from old highway bridge at Lick Run, Botetourt County, 1,000 ft downstream from bridge on U. S. Highway 220, 0.9 mile downstream from confluence of Cow-pasture and Jackson Rivers, 1.8 miles south of Iron Gate, and at mile 338.9.

Drainage area.--1,369 sq mi.

Gage.--Nonrecording prior to Oct. 26, 1928; recording thereafter. Datum of gage is 978.30 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs and extended above on basis of records for other stations in James River basin.

Bankfull stage.--10 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 26, 1928. Base for partial-duration series, 12,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	33	120,000	1938	Oct. 20, 1937	14.13	20,700
1913	March 1913	30.4	98,000		Oct. 28, 1937	15.78	24,800
1924	May 1924	24.6	57,500	1939	Jan. 31, 1939	16.98	27,700
1925	Apr. 30, 1925	6.30	5,370		Feb. 4, 1939	16.21	25,800
1926	Jan. 19, 1926	14.47	20,600	1940	Apr. 20, 1940	15.42	23,900
1927	Dec. 26, 1926	20.0	37,000		May 25, 1940	11.47	14,800
1928	Oct. 13, 1927	12.5	17,000		May 31, 1940	16.12	25,500
					Aug. 16, 1940	13.22	18,700
1929	Feb. 28, 1929	15.1	21,800	1941	Apr. 6, 1941	8.39	8,390
	Mar. 6, 1929	13.62	18,800	1942	May 17, 1942	21.10	43,500
	Apr. 17, 1929	12.32	16,500		May 22, 1942	18.12	32,300
	May 3, 1929	11.55	15,000	1943	Dec. 31, 1942	15.2	23,900
1930	Oct. 2, 1929	10.16	12,300		Mar. 14, 1943	17.60	30,800
	Oct. 22, 1929	10.61	13,100		Apr. 20, 1943	13.27	18,900
	Nov. 18, 1929	17.75	31,400	1944	May 25, 1944	10.22	12,000
1931	Mar. 29, 1931	8.32	8,890	1945	Jan. 2, 1945	10.2	12,000
1932	Feb. 5, 1932	18.14	32,300		Sept. 19, 1945	10.4	12,400
	Mar. 28, 1932	14.2	20,100	1946	Jan. 8, 1946	16.0	26,100
	May 1, 1932	13.65	18,900		May 4, 1946	10.84	13,300
1933	Oct. 18, 1932	10.38	12,400	1947	Jan. 21, 1947	11.12	13,900
	Dec. 28, 1932	11.63	14,800		Mar. 15, 1947	13.0	18,200
	Feb. 20, 1933	11.38	14,400	1948	Nov. 3, 1947	12.68	17,500
	Mar. 20, 1933	13.08	17,800		Feb. 15, 1948	16.1	26,400
	Apr. 12, 1933	10.87	13,400		Mar. 24, 1948	13.75	20,200
	Apr. 17, 1933	12.84	17,200		Apr. 14, 1948	12.31	16,600
1934	Mar. 5, 1934	13.25	18,000	1949	Nov. 29, 1948	13.7	19,900
	Mar. 9, 1934	11.75	15,200		Dec. 4, 1948	15.9	25,800
	Mar. 26, 1934	14.07	19,900		Dec. 16, 1948	14.4	21,700
1935	Dec. 1, 1934	16.82	25,700		Apr. 14, 1949	20.45	40,600
	Jan. 23, 1935	22.98	53,000		June 8, 1949	13.5	19,400
	Mar. 13, 1935	12.43	16,400	1950	Nov. 2, 1949	13.65	19,500
	Apr. 1, 1935	14.59	21,000		Feb. 2, 1950	15.56	24,600
	Sept. 6, 1935	13.5	18,600		Sept. 11, 1950	11.98	15,900
1936	Jan. 4, 1936	12.24	16,400		Sept. 13, 1950	14.75	22,500
	Jan. 20, 1936	11.47	14,800	1951	Dec. 4, 1950	16.23	26,100
	Feb. 15, 1936	13.6	19,600		Dec. 8, 1950	20.45	38,300
	Feb. 18, 1936	10.55	12,800		Feb. 2, 1951	11.35	14,600
	Mar. 18, 1936	25.65	66,000		Mar. 31, 1951	15.28	23,800
	Apr. 7, 1936	12.83	17,700		Apr. 9, 1951	10.95	13,700
1937	Dec. 7, 1936	10.27	12,200		Apr. 13, 1951	12.58	17,200
	Jan. 21, 1937	17.45	28,700				
	Apr. 26, 1937	14.0	20,500				

JAMES RIVER BASIN

Peak stages and discharges of James River at Lick Run, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 14, 1951	16.75	27,800	1955	Mar. 23, 1955	14.20	21,000
1952	Mar. 12, 1952	19.07	34,300	1956	Mar. 15, 1956	10.78	13,300
1953	Feb. 22, 1953	20.55	38,900	1957	Jan. 30, 1957	12.58	17,200
	Mar. 24, 1953	17.88	30,800		Mar. 1, 1957	10.35	12,400
1954	Mar. 2, 1954	18.82	33,400		Apr. 6, 1957	19.56	35,800
	1955	Oct. 16, 1954	18.14	31,400	1958	Dec. 27, 1957	12.07	16,100
Dec. 30, 1954		15.12	23,300	Mar. 31, 1958		14.82	22,500
Feb. 7, 1955		15.84	25,100	May 6, 1958		11.57	15,000
Mar. 2, 1955		11.25	14,100	1959	Apr. 13, 1959	10.82	13,300
Mar. 6, 1955		19.50	35,500		June 3, 1959	13.18	18,600

168. Meadow Creek near Newcastle, Va.

Location.--Lat 37°27'56", long 80°12'14", at bridge on State Highway 624, 2 miles upstream from sinks in Meadow Creek basin, and 6 miles southwest of Newcastle, Craig County.

Drainage area.--3.74 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 2,430 ft, from topographic map.

Stage-discharge relation.--Defined by current-meter measurements and contracted-opening measurement at 3.2 ft, and extended above by logarithmic plotting.

Bankfull stage.--3 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	July 1950	3.35	220	1954	Mar. 1, 1954	-	100
				1955	Oct. 15, 1954	3.18	107
1951	Mar. 31, 1951	3.53	260				
1952	-	3.64	210	1956	-	-	(a)
1953	Mar. 24, 1953	3.58	200	1957	Apr. 5, 1957	3.37	150

a Peak stage below gage, discharge less than 60 cfs.

170. Meadow Creek at Newcastle, Va.

Location.--Lat 37°29'35", long 80°06'35", on left bank at southern town limits of Newcastle, Craig County, 800 ft upstream from Newcastle-Salem highway bridge and 0.6 mile upstream from mouth.

Drainage area.--13.8 sq mi.

Gage.--Recording prior to Oct. 1, 1952; crest-stage gage thereafter. At site 400 ft downstream at different datum prior to June 21, 1937. Datum of gage is 1,337.32 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs and extended above on basis of records for Johns Creek at Newcastle and Craig Creek at Parr.

Remarks.--Flow of stream regulated to some extent by flow through natural underground channels 3 miles above station. Only annual peaks are shown after 1952 water year. Base for partial-duration series, 100 cfs.

Peak stages and discharges of Meadow Creek at Newcastle, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	3.64	242	1944	Feb. 29, 1944	3.41	100
	Oct. 22, 1929	2.92	153				
	Nov. 18, 1929	2.70	131	1945	Mar. 6, 1945	3.63	183
	Feb. 4, 1930	2.44	102				
1931	Aug. 23, 1931	2.71	130	1946	Jan. 8, 1946	3.74	161
1932	Mar. 28, 1932	2.38	75		Feb. 10, 1946	3.41	100
1933	Oct. 18, 1932	3.10	152	1947	Jan. 3, 1947	3.54	121
	Nov. 9, 1932	3.08	152		Jan. 16, 1947	3.41	100
	Dec. 29, 1932	2.65	102		Jan. 20, 1947	3.58	128
			Mar. 14, 1947		3.57	127	
1934	Mar. 4, 1934	3.02	118	1948	Oct. 10, 1947	3.44	104
	Mar. 27, 1934	3.00	116		Oct. 28, 1947	3.50	114
1935	Oct. 6, 1934	2.78	108		Nov. 3, 1947	4.15	277
	Nov. 29, 1934	3.02	134	Apr. 8, 1948	3.99	224	
	Jan. 23, 1935	3.60	200	Aug. 5, 1948	3.67	146	
	Mar. 26, 1935	2.83	122	Aug. 21, 1948	3.60	132	
	Apr. 1, 1935	3.04	146	1949	Nov. 29, 1948	4.00	227
	Sept. 4, 1935	2.88	128		Dec. 4, 1948	4.13	270
	1936	Jan. 3, 1936	2.88		108	Apr. 14, 1949	4.09	256
Jan. 19, 1936		2.99	120		July 15, 1949	4.22	303
Feb. 14, 1936		3.35	158	July 17, 1949	3.83	182	
Mar. 17, 1936		3.65	218	Apr. 29, 1949	3.84	184	
Mar. 20, 1936		2.77	121	1950	Nov. 2, 1949	3.84	187
Aug. 14, 1936		3.04	146		Feb. 2, 1950	3.79	176
1937	Oct. 17, 1936	3.05	146		May 4, 1950	3.83	185
	Jan. 20, 1937	3.12	152	May 15, 1950	3.40	103	
1938	Aug. 10, 1938	3.35	90	May 31, 1950	3.42	106	
1939	Aug. 19, 1939	3.45	106	1951	Dec. 7, 1950	3.93	209
1940	Apr. 20, 1940	3.75	163		Mar. 21, 1951	3.68	153
	May 31, 1940	4.16	281		Mar. 31, 1951	4.08	253
	Aug. 16, 1940	4.80	700		Apr. 9, 1951	3.79	176
	Aug. 31, 1940	3.78	170		Apr. 12, 1951	3.96	217
	1941	July 8, 1941	4.17		284	June 10, 1951	3.42	106
1942		Mar. 9, 1942	3.46	108	June 18, 1951	3.69	155
		May 16, 1942	4.10	259	1952	Dec. 21, 1951	3.46	105
	May 22, 1942	3.97	216	Jan. 28, 1952		3.62	136
	1943	Dec. 30, 1942	3.83	182	Feb. 4, 1952	3.84	186
Apr. 20, 1943		3.67	146	Mar. 11, 1952	3.98	222	
1944		Feb. 18, 1944	3.41	100	Apr. 28, 1952	3.75	164
				1953	Mar. 24, 1953	3.4	95
					Mar. 1, 1954	4.0	227
			1955		Mar. 1, 1955	4.18	295
				1957	Apr. 5, 1957	4.0	227

175. Johns Creek at Newcastle, Va.

Location.--Lat 37°30'20", long 80°06'25", on right bank 20 ft downstream from highway bridge at Newcastle, Craig County, and 1,700 ft upstream from mouth.

Drainage area.--106 sq mi.

Gage.--Nonrecording prior to June 7, 1937; recording thereafter. Datum of gage is 1,254.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended to 8,000 cfs on basis of velocity-area studies for the period April 1926 to February 1954; defined below 3,200 cfs thereafter.

Bankfull stage.--8 ft.

Remarks.--Subsequent to July 1, 1957, station maintained and records computed and furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1937. Base for partial-duration series, 2,100 cfs.

Peak stages and discharges of Johns Creek at Newcastle, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	May 16, 1926	3.49	77	1948	Nov. 3, 1947	8.35	2,470
	May 17, 1926	3.49	77		Feb. 14, 1948	9.20	3,890
1927	Feb. 23, 1927	9.4	4,310		Apr. 8, 1948	8.69	2,970
1928	Aug. 16, 1928	10.2	6,290				
1929	Mar. 1, 1929	7.7	1,790	1949	Nov. 29, 1948	8.67	2,890
1930	Oct. 3, 1929	9.4	4,310		Dec. 4, 1948	9.58	4,750
					Dec. 15, 1948	8.84	3,220
1931	May 8, 1931	7.0	1,240		Jan. 6, 1949	8.14	2,230
1932	Mar. 28, 1932	7.7	1,790		Apr. 14, 1949	8.68	2,970
1933	Dec. 28, 1932	7.8	1,880		July 17, 1949	8.10	2,170
1934	Mar. 27, 1934	9.2	3,890				
1935	Jan. 23, 1935	10.80	8,000	1950	Nov. 2, 1949	8.63	2,890
					Feb. 2, 1950	8.23	2,350
1936	Mar. 17, 1936	9.7	5,000		May 3, 1950	8.75	3,050
1937	Jan. 20, 1937	8.0	2,150				
				1951	Dec. 8, 1950	8.56	2,740
1938	Oct. 19, 1937	8.66	2,920		Mar. 31, 1951	9.38	4,310
	Oct. 27, 1937	8.85	3,180		Apr. 9, 1951	8.38	2,530
	June 21, 1938	8.18	2,370		Apr. 13, 1951	8.24	2,350
1939	Jan. 30, 1939	8.22	2,370	1952	Mar. 11, 1952	9.71	5,000
					Apr. 28, 1952	8.13	2,230
1940	Apr. 19, 1940	8.58	2,850				
	May 25, 1940	9.39	3,920	1953	Feb. 21, 1953	9.35	4,200
	May 31, 1940	9.08	3,500		Mar. 24, 1953	9.64	4,880
	Aug. 15, 1940	9.53	4,640				
1941	July 7, 1941	8.73	2,960	1954	Mar. 1, 1954	8.79	3,100
1942	May 16, 1942	9.17	3,790	1955	Feb. 7, 1955	8.73	3,010
	May 22, 1942	8.21	2,290		Mar. 1, 1955	9.16	3,760
					Mar. 6, 1955	10.25	3,600
1943	Dec. 30, 1942	9.15	3,790	1956	Apr. 16, 1956	8.52	2,180
	Apr. 20, 1943	8.38	2,530				
	May 26, 1943	8.45	2,600	1957	Jan. 30, 1957	9.24	2,740
1944	May 28, 1944	8.35	2,530		Apr. 5, 1957	10.03	3,420
1945	Mar. 6, 1945	8.14	2,230	1958	Apr. 23, 1958	8.37	2,100
1946	Jan. 8, 1946	8.15	2,230	1959	Apr. 13, 1959	8.00	1,810
1947	Mar. 14, 1947	7.95	2,020				

180. Craig Creek at Parr, Va.

Location.--Lat 37°39'55", long 79°54'40", on right bank 12 ft upstream from Chesapeake and Ohio Railway bridge, 700 ft downstream from Stcny Run, 0.2 mile northeast of Horton, 0.4 mile northwest of Parr, Botetourt County, and 12 miles upstream from mouth.

Drainage area.--331 sq mi.

Gage.--Nonrecording prior to June 7, 1937; recording thereafter. Datum of gage is 992.50 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above.

Bankfull stage.--7 ft.

Remarks.--Subsequent to July 1, 1957, station maintained and records computed and furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1936. Base for partial-duration series, 4,200 cfs.

Peak stages and discharges of Craig Creek at Parr, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Aug. 29, 1925	6.15	1,330	1946	May 5, 1946	8.75	4,640
1926	Jan. 19, 1926	9.53	5,820	1947	Jan. 16, 1947	8.59	4,340
1927	Dec. 26, 1926	12.60	11,200		Jan. 21, 1947	9.11	5,110
1928	Aug. 17, 1928	15.6	16,900		Mar. 15, 1947	8.79	4,640
1929	Feb. 27, 1929	8.8	4,650	1948	Nov. 3, 1947	11.75	9,510
1930	Oct. 22, 1929	11.3	8,660		Feb. 14, 1948	10.96	8,150
1931	Aug. 23, 1931	7.35	2,700		Apr. 8, 1948	10.13	6,710
1932	May 1, 1932	9.0	4,950	1949	Nov. 29, 1948	10.50	7,350
1933	Oct. 18, 1932	11.4	8,830		Dec. 4, 1948	12.95	11,600
1934	Mar. 28, 1934	11.2	8,490		Dec. 30, 1948	8.66	4,490
1935	Jan. 23, 1935	17.0	19,100		Jan. 6, 1949	9.20	5,270
1936	Mar. 18, 1936	14.26	14,000		Apr. 14, 1949	12.60	10,900
1937	Jan. 21, 1937	10.32	7,400		July 17, 1949	8.76	4,640
	Aug. 31, 1937	8.98	4,990	1950	Nov. 2, 1949	9.29	5,430
1938	Oct. 20, 1937	11.48	9,000		Feb. 2, 1950	9.45	5,590
	Oct. 28, 1937	10.51	7,800		May 3, 1950	9.92	6,710
	June 21, 1938	8.98	4,990	1951	Dec. 8, 1950	12.24	10,200
	July 22, 1938	8.68	4,510		Mar. 19, 1951	8.80	4,640
	July 24, 1938	10.41	7,600		Mar. 31, 1951	10.54	7,350
	Aug. 3, 1938	10.34	7,400		Apr. 9, 1951	8.98	4,950
1939	Jan. 31, 1939	9.18	5,330		Apr. 13, 1951	9.27	5,430
	Feb. 4, 1939	8.51	4,200	1952	Jan. 28, 1952	8.53	4,200
1940	Apr. 20, 1940	12.44	10,500		Feb. 4, 1952	9.63	5,910
	May 25, 1940	10.54	7,350		Mar. 11, 1952	10.60	7,510
	May 31, 1940	13.40	12,300		Apr. 28, 1952	8.69	4,490
	Aug. 15, 1940	15.02	15,200	1953	Feb. 21, 1953	11.31	8,660
	Aug. 31, 1940	9.35	5,590		Mar. 24, 1953	11.93	9,680
1941	July 6, 1941	9.37	5,590	1954	Mar. 1, 1954	13.42	12,000
	July 8, 1941	13.35	12,300	1955	Oct. 16, 1954	9.32	4,440
1942	May 16, 1942	13.43	12,300		Feb. 7, 1955	9.63	4,940
	May 22, 1942	11.64	9,170		Mar. 2, 1955	9.95	5,660
1943	Dec. 30, 1942	10.23	6,870		Mar. 7, 1955	12.40	10,100
	Apr. 20, 1943	10.30	7,030	1956	Apr. 16, 1956	9.15	4,280
	May 26, 1943	8.68	4,490	1957	Jan. 30, 1957	10.11	5,840
1944	Feb. 18, 1944	8.99	4,950		Apr. 5, 1957	12.10	9,550
	Mar. 1, 1944	8.73	4,490		Sept. 18, 1957	9.35	4,600
1945	Mar. 6, 1945	8.80	4,640	1958	May 6, 1958	9.62	5,120
	Sept. 18, 1945	9.32	5,430	1959	Apr. 13, 1959	9.40	4,860
1946	Jan. 8, 1946	9.40	5,590				

185. Catawba Creek near Catawba, Va.

Location.--Lat 37°28'05", long 80°00'20", on right bank 80 ft upstream from highway bridge, 1.0 mile downstream from Little Catawba Creek, 1.9 miles west of Haymarketown, 8.2 miles northeast of Catawba, Roanoke County.

Drainage area.--34 sq mi, approximately.

Gage.--Nonrecording at site 80 ft downstream, prior to Aug. 1, 1953; recording thereafter. Crest-stage gage installed Mar. 16, 1950. Datum of gage is 1,299.96 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 600 cfs.

JAMES RIVER BASIN

Peak stages and discharges of Catawba Creek near Catawba, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	13.26	-	1955	Oct. 15, 1954	4.72	1,420
1944	Feb. 18, 1944	3.2	790		Mar. 6, 1955	4.21	894
1945	Sept. 18, 1945	3.9	1,330		Mar. 22, 1955	4.10	790
					Apr. 14, 1955	3.93	628
1946	Mar. 15, 1946	2.8	560	1956	Apr. 16, 1956	3.68	443
1947	Jan. 20, 1947	3.00	670				
1948	Nov. 3, 1947	3.90	1,330	1957	Oct. 27, 1956	4.25	835
1949	June 29, 1949	5.60	3,000		Jan. 29, 1957	4.48	1,180
1950	May 31, 1950	3.73	1,090		Feb. 9, 1957	3.92	600
					Feb. 26, 1957	4.13	790
1951	Nov. 5, 1950	3.35	858		Apr. 5, 1957	4.52	1,200
	Dec. 7, 1950	5.80	3,300		June 2, 1957	4.36	1,080
	Mar. 18, 1951	3.20	765	1958	Mar. 31, 1958	3.98	676
	Apr. 12, 1951	3.23	765		May 5, 1958	5.30	2,180
1952	Mar. 11, 1952	3.52	955		July 9, 1958	4.12	809
	Sept. 1, 1952	4.13	1,380		Aug. 13, 1958	4.02	714
1953	Dec. 11, 1952	3.05	678	1959	Apr. 12, 1959	3.97	666
	Feb. 21, 1953	3.15	765		Sept. 30, 1959	6.09	4,150
	Mar. 24, 1953	5.46	2,870				
1954	Mar. 1, 1954	6.58	5,670				

190. Catawba Creek near Fincastle, Va.

Location.--Lat 37°30'00", long 79°50'05", at highway bridge at Kyles Mills, 4 miles northeast of Fincastle, Botetourt County.

Drainage area.--104 sq mi.

Gage.--Nonrecording. Datum of gage is 994.05 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended to 7,700 cfs on basis of velocity-area studies and logarithmic plotting.

Historical data.--Flood in August 1928 was reported to be the highest flood in memory of local residents.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	August 1928	20.0	7,700	1933	Oct. 17, 1932	15.2	3,890
1929	Feb. 28, 1929	10.5	1,550	1934	Mar. 4, 1934	9.6	1,530
1930	Oct. 2, 1929	15.0	3,750	1935	Jan. 23, 1935	18.02	6,000
1931	Aug. 2, 1931	10.0	1,430	1936	Mar. 17, 1936	14.27	3,330
1932	Mar. 6, 1932	10.4	1,520	1937	Jan. 2, 1937	19.4	7,160

194. Looney Mill Creek near Buchanan, Va.

Location.--Lat 37°29'48", long 79°45'28", on right downstream abutment of bridge on State Highway 636, 300 ft southeast of U. S. Highway 11, and 5 miles southwest of Buchanan, Botetourt County.

Drainage area.--29.6 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 30 cfs and by contracted-opening measurements at 6,990 cfs and 7,680 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	August 1928	a14	-	1954	-	-	(b)
1950	Sept. 10, 1950	10.76	7,100	1955	Oct. 15, 1954	10.82	7,200
1951	Dec. 7, 1950	7.6	2,650	1956	-	-	(b)
1952	Sept. 1, 1952	7.2	2,300	1957	Sept. 14, 1957	6.29	1,700
1953	Mar. 24, 1953	6.8	2,000	1958	May 5, 1958	6.25	1,650
				1959	Sept. 30, 1959	8.05	3,100

a Reported by local resident.

b Peak stage below gage, discharge less than 1,200 cfs.

195. James River at Buchanan, Va.

Location.--Lat 37°31'50", long 79°40'45", on left bank at Chesapeake and Ohio Railway station at Buchanan, Botetourt County, 300 ft upstream from bridge on U. S. Highway 11, 1,000 ft upstream from Purgatory Creek, 1½ miles downstream from Looney Mill Creek, and at mile 301.2.

Drainage area.--2,084 sq mi.

Gage.--Nonrecording prior to July 1, 1927; recording thereafter. Datum of gage is 802.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 53,000 cfs and extended to 105,000 cfs by logarithmic plotting and records for other stations in James River basin.

Bankfull stage.--15 ft.

Remarks.--Gage-height record for July 1906 to July 1927 furnished by U. S. Weather Bureau. Only annual peaks are shown prior to Oct. 1, 1927. Base for partial-duration series, 21,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a34.9	125,000	1906	Jan. 23, 1906	11.5	24,300
				1907	June 14, 1907	17.0	41,800
1886	April 1886	b27	85,000	1908	Feb. 16, 1908	19.0	49,800
				1909	Apr. 14, 1909	15.0	35,500
1889	March 1889	b27	85,000	1910	June 14, 1910	16.0	38,800
1896	Sept. 30, 1896	15.5	38,000	1911	Jan. 3, 1911	12.0	25,700
1897	Feb. 23, 1897	16.5	40,400	1912	Mar. 30, 1912	16.5	39,900
1898	May 7, 1898	12.0	25,700	1913	Mar. 27, 1913	31.0	105,000
1899	Mar. 5, 1899	19.5	51,900	1914	Feb. 20, 1914	10.0	17,900
1900	Mar. 20, 1900	11.4	23,800	1915	Feb. 2, 1915	20.0	56,100
1901	Nov. 26, 1900	21.4	59,800	1916	Dec. 30, 1915	13.0	28,800
1902	Mar. 1, 1902	25.0	76,000	1917	Mar. 5, 1917	17.7	44,600
1903	Mar. 24, 1903	17.5	43,800	1918	Mar. 14, 1918	17.3	43,000
1904	May 19, 1904	10.4	20,500	1919	Jan. 3, 1919	18.5	47,800
1905	July 15, 1905	15.4	36,800	1920	Mar. 20, 1920	12.8	26,800

a From information by local resident; maximum stage known since at least 1870.

b From information furnished by Chesapeake and Ohio Railway.

Peak stages and discharges of James River at Buchanan, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Jan. 23, 1921	12.0	24,400	1941	July 8, 1941	11.73	23,300
1922	Mar. 11, 1922	12.0	24,200				
1923	Mar. 7, 1923	10.3	18,800	1942	May 17, 1942	19.56	52,300
1924	May 12, 1924	21.5	60,000		May 22, 1942	18.40	47,400
1925	Jan. 12, 1925	8.0	11,700				
				1943	Dec. 31, 1942	14.70	33,300
1926	Jan. 19, 1926	13.4	28,700		Mar. 14, 1943	15.19	35,100
1927	Dec. 26, 1926	16.0	38,000		Apr. 20, 1943	13.63	29,500
				1944	Mar. 1, 1944	10.00	17,900
1928	Oct. 13, 1927	11.09	21,200				
	Aug. 16, 1928	16.53	39,000	1945	Sept. 18, 1945	11.2	21,700
	Sept. 20, 1928	12.63	26,100				
1929	Mar. 1, 1929	13.85	30,000	1946	Jan. 8, 1946	14.8	33,700
	Mar. 6, 1929	12.72	26,400		May 5, 1946	11.0	21,000
	Apr. 17, 1929	11.77	23,500				
1930	Oct. 3, 1929	11.32	21,900	1947	Jan. 21, 1947	11.54	22,600
	Oct. 23, 1929	11.67	23,200		Mar. 15, 1947	12.48	25,800
	Nov. 19, 1929	16.50	39,000				
1931	Mar. 30, 1931	8.12	12,000	1948	Nov. 4, 1947	14.40	32,300
					Feb. 15, 1948	16.25	38,800
1932	Feb. 5, 1932	15.30	35,000		Mar. 24, 1948	12.60	26,100
	Mar. 29, 1932	12.52	25,900		Apr. 9, 1948	11.34	22,000
	May 2, 1932	12.30	25,300	1949	Nov. 29, 1948	14.75	33,700
					Dec. 4, 1948	17.15	42,600
1933	Oct. 17, 1932	12.17	24,900		Apr. 14, 1949	20.18	54,800
	Nov. 10, 1932	11.08	21,100		June 19, 1949	11.04	21,000
	Dec. 29, 1932	12.08	24,300				
	Mar. 21, 1933	12.27	24,900	1950	Nov. 2, 1949	12.86	27,200
	Apr. 17, 1933	11.73	23,000		Feb. 2, 1950	14.73	33,300
					Sept. 11, 1950	12.58	26,100
1934	Mar. 5, 1934	13.38	28,400		Sept. 14, 1950	12.55	26,100
	Mar. 28, 1934	14.36	32,000				
				1951	Dec. 5, 1950	14.20	31,600
1935	Dec. 2, 1934	16.92	40,300		Dec. 8, 1950	18.95	49,800
	Jan. 23, 1935	23.82	70,400		Mar. 31, 1951	14.68	33,300
	Mar. 13, 1935	11.52	22,700		Apr. 10, 1951	11.26	22,000
	Mar. 26, 1935	11.92	24,000		Apr. 13, 1951	12.35	25,500
	Apr. 2, 1935	15.38	35,300		June 14, 1951	14.93	34,000
	Sept. 6, 1935	13.40	28,800	1952	Mar. 12, 1952	17.73	42,000
1936	Jan. 4, 1936	12.58	26,200	1953	Feb. 22, 1953	19.15	48,000
	Jan. 20, 1936	12.32	25,200		Mar. 25, 1953	17.55	41,600
	Feb. 15, 1936	14.10	31,100				
	Mar. 18, 1936	26.80	84,100	1954	Mar. 2, 1954	18.75	46,400
	Mar. 21, 1936	12.48	25,800				
	Apr. 7, 1936	12.00	24,200	1955	Oct. 16, 1954	16.6	37,800
					Dec. 31, 1954	13.75	27,800
1937	Jan. 3, 1937	14.62	32,500		Feb. 7, 1955	15.05	32,000
	Jan. 21, 1937	17.12	41,400		Mar. 2, 1955	12.27	22,900
	Apr. 26, 1937	13.60	29,500		Mar. 7, 1955	19.36	48,800
					Mar. 23, 1955	13.07	25,400
1938	Oct. 20, 1937	15.36	35,600	1956	Apr. 17, 1956	10.03	15,800
	Oct. 28, 1937	15.16	34,900				
	July 23, 1938	12.87	27,200	1957	Jan. 30, 1957	12.58	23,800
					Apr. 6, 1957	18.78	46,400
1939	Jan. 31, 1939	15.63	36,200				
	Feb. 4, 1939	14.73	33,200	1958	Mar. 31, 1958	14.42	29,500
					May 6, 1958	12.30	22,300
1940	Apr. 20, 1939	15.72	36,600	1959	Apr. 13, 1959	11.63	20,100
	May 26, 1940	11.87	23,900				
	May 31, 1940	17.00	41,100				
	Aug. 15, 1940	16.00	37,600				

202. Calfpasture River near West Augusta, Va.

Location.--Lat 38°16'24", long 79°18'02", at left downstream side of bridge on U. S. Highway 250, 1.5 miles east of West Augusta, Augusta County, and 9 miles west of Churchville.

Drainage area.--12.8 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,897.46 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 14 cfs and extended on basis of slope-area measurement at 1,840 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 17, 1949	6.6	4,800	1955	Aug. 19, 1955	2.83	480
1950	-	-	(a)	1956	Mar. 14, 1956	1.35	94
1951	Dec. 7, 1950	4.0	1,180	1957	Apr. 5, 1957	3.15	640
1952	Mar. 11, 1952	1.98	210	1958	Dec. 26, 1957	1.79	170
1953	Feb. 21, 1953	2.34	300	1959	June 2, 1959	4.01	1,180
1954	Mar. 1, 1954	4.74	1,840				

a Peak stage below gage, discharge less than 90 cfs.

205. Calfpasture River above Mill Creek, at Goshen, Va.

Location.--Lat 37°59'15", long 79°29'40", on left bank 20 ft upstream from highway bridge at Goshen, Rockbridge County, 400 ft upstream from Mill Creek.

Drainage area.--147 sq mi.

Gage.--Recording. Datum of gage is 1,384.84 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 9,200 cfs and extended to 14,800 cfs by logarithmic plotting.

Bankfull stage.--8 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 30, 1939	7.23	4,190	1947	Mar. 14, 1947	6.71	3,500
	Feb. 4, 1939	7.67	4,900	1948	Feb. 14, 1948	7.00	3,910
1940	May 31, 1940	9.03	7,010	1949	Nov. 7, 1948	7.32	4,340
	June 11, 1940	6.85	3,630		Dec. 4, 1948	7.82	5,110
	June 18, 1940	6.45	3,180		Jan. 6, 1949	6.28	2,980
	Aug. 16, 1940	8.00	5,370		Apr. 13, 1949	9.48	8,240
1941	Apr. 5, 1941	5.73	2,300		June 18, 1949	12.14	14,800
1942	May 16, 1942	10.38	10,200	1950	Feb. 2, 1950	6.37	2,760
	May 22, 1942	10.35	10,200		Sept. 10, 1950	8.97	7,240
1943	Oct. 16, 1942	8.38	6,120		Sept. 13, 1950	7.12	3,930
	Dec. 30, 1942	7.62	4,790	1951	Dec. 4, 1950	10.0	9,300
	Mar. 13, 1943	7.05	3,910		Dec. 8, 1950	10.43	10,200
	May 20, 1943	6.66	3,440		June 13, 1951	8.69	6,670
1944	May 7, 1944	6.39	3,110	1952	Mar. 11, 1952	7.83	5,080
1945	Sept. 18, 1945	7.00	3,910		Apr. 28, 1952	6.28	2,690
1946	Jan. 8, 1946	6.26	2,920	1953	Feb. 21, 1953	9.87	9,080
					Mar. 24, 1953	8.92	7,050

Peak stages and discharges of Calfpasture River above Mill Creek,
at Goshen, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1954	Feb. 21, 1954	6.52	2,990	1955	Aug. 18, 1955	7.83	5,080	
	Mar. 1, 1954	10.74	10,900		1956	Mar. 14, 1956	5.29	1,520
1955	Oct. 16, 1954	8.58	6,480	1957		Apr. 5, 1957	9.32	7,840
	Nov. 21, 1954	7.28	4,250		1958	Dec. 26, 1957	5.98	2,280
	Dec. 30, 1954	7.51	4,570	1959		June 2, 1959	8.42	6,120
	Feb. 7, 1955	6.43	2,920					
	Mar. 5, 1955	7.76	5,080					
Mar. 22, 1955	6.88	3,610						

210. Calfpasture River at Goshen, Va.
(Published as North River prior to October 1934)

Location.--Lat 37°59'10", long 79°29'38", at downstream side of highway bridge at Goshen, Rockbridge County, 500 ft downstream from Mill Creek.

Drainage area.--190 sq mi.

Gage.--Nonrecording. Datum of gage is 1,381.69 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended to 20,000 cfs on basis of logarithmic plotting and comparison with peak discharge at other stations in the James River basin.

Bankfull stage.--8 ft.

Historical data.--Flood in 1922 reported by local resident to have been 2 ft higher than flood of Mar. 17, 1936.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 19, 1926	8.2	5,980	1933	Oct. 17, 1932	10.0	11,600
1927	Nov. 16, 1926	10.0	11,600	1934	Mar. 28, 1934	6.2	3,140
1928	Oct. 13, 1927	7.3	4,380	1935	Jan. 23, 1935	9.9	11,200
1929	Apr. 16, 1929	8.6	6,930				
1930	Nov. 18, 1929	8.8	7,500	1936	Mar. 17, 1936	11.71	20,000
				1937	Apr. 26, 1937	8.0	5,570
1931	Mar. 29, 1931	5.3	2,190	1938	Oct. 19, 1937	9.8	10,900
1932	Feb. 4, 1932	8.5	6,670				

215. Maury River at Rockbridge Baths, Va.
(Published as North River prior to October 1945)

Location.--Lat 37°54'26", long 79°25'20", on right bank at Rockbridge Baths, Rockbridge County, 700 ft upstream from highway bridge and 1 mile upstream from Hays Creek.

Drainage area.--329 sq mi.

Gage.--Recording. Datum of gage is 1,100.33 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges of Maury River at Rockbridge Baths, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1929	Feb. 28, 1929	6.85	5,100	1943	Dec. 30, 1942	8.10	8,300	
	Mar. 5, 1929	7.52	6,650		Mar. 13, 1943	8.02	8,000	
	Apr. 16, 1929	8.50	9,550		June 9, 1943	7.00	5,500	
	May 3, 1929	-	-		July 13, 1943	6.70	4,900	
1930	Nov. 18, 1929	8.58	9,900	1944	May 7, 1944	7.34	6,290	
	Mar. 7, 1930	7.55	6,780		1945	Sept. 18, 1945	7.23	6,060
1931	Mar. 29, 1931	5.16	2,600	1946		Jan. 8, 1946	6.60	4,700
1932	Feb. 4, 1932	8.20	8,600		1947	Mar. 14, 1947	7.6	6,900
	Mar. 28, 1932	6.92	5,300	1948		Feb. 14, 1948	7.75	7,280
1933	Oct. 17, 1932	9.00	11,300		1949	Nov. 7, 1948	7.32	6,170
	Mar. 20, 1933	7.13	5,830			Nov. 29, 1948	6.74	5,000
	Apr. 17, 1933	8.43	9,200			Dec. 4, 1948	8.56	9,900
1934	Mar. 3, 1934	6.97	5,400	Dec. 30, 1948		6.56	4,600	
	Mar. 28, 1934	6.79	5,100	Jan. 6, 1949	7.02	5,500		
1935	Dec. 1, 1934	8.96	11,300	Apr. 14, 1949	8.73	10,200		
	Jan. 23, 1935	10.08	15,600	June 18, 1949	10.07	15,600		
	Mar. 13, 1935	7.07	5,610	1950	Nov. 2, 1949	6.73	5,000	
	Apr. 1, 1935	6.58	4,700		Feb. 2, 1950	7.13	5,830	
	Sept. 6, 1935	8.26	8,900		May 29, 1950	6.57	4,600	
1936	Nov. 13, 1935	7.02	5,550		Sept. 10, 1950	9.1	11,600	
	Jan. 3, 1936	6.95	5,400		Sept. 13, 1950	8.2	8,600	
	Mar. 17, 1936	13.07	33,000	1951	Dec. 4, 1950	9.45	12,800	
	Apr. 6, 1936	7.32	6,170		Dec. 8, 1950	9.80	14,400	
1937	Jan. 2, 1937	6.71	4,900		Feb. 7, 1951	7.13	5,830	
	Jan. 20, 1937	8.36	9,200		June 13, 1951	8.50	9,550	
	Feb. 22, 1937	6.78	5,100	1952	Mar. 11, 1952	8.64	9,900	
	Apr. 26, 1937	7.90	7,700		1953	Feb. 21, 1953	9.40	12,800
1938	Oct. 19, 1937	9.44	12,800	Mar. 24, 1953		8.90	11,000	
	Oct. 28, 1937	8.35	9,200	1954		Feb. 21, 1954	7.35	6,290
	July 23, 1938	6.94	5,300		Mar. 1, 1954	9.75	14,400	
	Aug. 9, 1938	7.40	6,410	1955	Oct. 16, 1954	8.40	9,200	
1939	Jan. 30, 1939	8.10	8,300		Nov. 21, 1954	7.78	7,400	
	Feb. 4, 1939	8.16	8,600		Dec. 30, 1954	7.71	7,150	
1940	May 27, 1940	7.12	5,720		Feb. 7, 1955	7.40	6,410	
	May 31, 1940	9.13	11,600		Mar. 6, 1955	8.27	8,900	
	June 11, 1940	7.20	5,940		Mar. 22, 1955	7.23	6,290	
	June 18, 1940	6.80	5,100		Aug. 18, 1955	7.93	8,000	
	Aug. 16, 1940	8.45	9,200		1956	Mar. 14, 1956	6.02	3,650
	Aug. 31, 1940	6.72	4,900	1957		Apr. 5, 1957	9.03	11,300
1941	Apr. 5, 1941	6.76	5,000		1958	Apr. 1, 1958	6.35	4,220
	1942	May 16, 1942	10.20	16,000		1959	June 3, 1959	7.85	7,550
May 22, 1942		10.53	17,500	Sept. 30, 1959			7.04	5,610
June 27, 1942		7.35	6,290					
Aug. 9, 1942		6.55	4,600					
1943	Oct. 16, 1942	8.94	11,000					

225. Kerrs Creek near Lexington, Va.

Location.--Lat 37°49'35", long 79°26'35", 1.4 miles upstream from mouth and 2.9 miles north of Lexington, Rockbridge County.

Drainage area.--34 sq mi, approximately.

Gage.--Nonrecording, Jan. 27, 1927, to Sept. 30, 1953, at site 1,000 ft downstream at datum 8.28 ft lower; recording thereafter. Crest-stage gage installed Mar. 15, 1950. Datum of gage is 980.32 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended to 23,000 cfs on basis of contracted-opening measurement and slope-area measurement at 23,000 cfs, and slope-area measurement at 5,260 cfs 1927-53. Since 1953, defined by current-meter measurements below 600 cfs and extended on basis of curves of relation for former and present sites.

Bankfull stage.--6 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1927	Feb. 23, 1927	7.75	1,500	1951	Apr. 12, 1951	6.35	1,080	
1928	Aug. 16, 1928	8.50	2,090		June 5, 1951	6.12	1,080	
1929	Apr. 16, 1929	7.40	1,200		June 13, 1951	6.80	1,620	
1930	Mar. 6, 1930	8.15	1,820		July 14, 1951	9.3	5,260	
1931	Aug. 2, 1931	7.30	1,130	1952	Mar. 11, 1952	9.04	4,620	
1932	Mar. 6, 1932	8.0	1,780		1953	Feb. 21, 1953	6.3	1,300
1933	Apr. 16, 1933	9.0	3,320	Mar. 24, 1953		7.97	2,970	
1934	June 18, 1934	8.0	1,780	July 1, 1953		8.45	3,560	
1935	Dec. 1, 1934	9.0	3,320	1954		Feb. 21, 1954	6.56	1,720
1936	Mar. 17, 1936	10.8	7,600		Mar. 1, 1954	9.28	6,700	
1937	Apr. 25, 1937	8.4	2,300		Apr. 24, 1954	5.83	1,130	
1938	Oct. 19, 1937	9.5	4,380		1955	Oct. 15, 1954	7.18	2,480
1939	Jan. 30, 1939	8.5	2,460	Nov. 21, 1954		5.38	810	
1940	Aug. 31, 1940	10.5	7,100	Dec. 29, 1954		5.68	1,020	
1941	Apr. 5, 1941	7.2	1,060	Feb. 6, 1955		6.02	1,250	
1942	May 22, 1942	10.0	5,660	Mar. 6, 1955	6.97	2,160		
1943	Oct. 14, 1942	7.2	1,060	Mar. 22, 1955	5.06	615		
1944	Mar. 7, 1944	6.7	765	1956	Mar. 14, 1956	4.46	391	
1945	Oct. 20, 1944	7.0	940		Apr. 2, 1957	5.22	695	
1946	Jan. 7, 1946	6.8	820		Apr. 5, 1957	5.99	1,250	
1947	Mar. 14, 1947	7.3	1,130		May 20, 1957	5.13	668	
1948	Mar. 31, 1948	9.7	4,860	1957	Mar. 31, 1958	5.21	720	
1949	Apr. 13, 1949	10.0	5,660		May 5, 1958	5.21	720	
1950	Sept. 10, 1950	13.8	23,000	1958	Sept. 30, 1959	8.51	4,680	
1951	Dec. 3, 1950	7.22	1,780					
	Dec. 7, 1950	8.75	4,000					
	Feb. 7, 1951	7.04	1,590					

230. Maury River near Lexington, Va.
(Published as North River prior to October 1945)

Location.--Lat 37°48'49", long 79°26'42", 900 ft upstream from Lime Kiln highway bridge, 0.2 mile downstream from Kerrs Creek, and 2.8 miles upstream from Lexington, Rockbridge County.

Drainage area.--487 sq mi.

Gage.--Recording. Datum of gage is 906.56 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended to 40,000 cfs by logarithmic plotting and on basis of records for other stations in James River basin.

Bankfull stage.--9 ft.

Historical data.--Flood of Mar. 18, 1936, believed to be highest since 1877.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 18, 1926	9.74	6,730	1940	May 27, 1940	9.00	5,810
					May 31, 1940	13.08	11,900
1927	Nov. 16, 1926	11.42	9,150		June 12, 1940	9.03	5,810
	Apr. 22, 1927	8.88	5,650		June 18, 1940	8.63	5,290
1928	Oct. 13, 1927	8.46	5,130		Aug. 16, 1940	12.33	10,600
	Aug. 17, 1928	9.45	6,310		Aug. 31, 1940	11.40	9,250
1929	Mar. 1, 1929	8.97	5,780	1941	Apr. 5, 1941	8.93	5,840
	Mar. 5, 1929	9.98	7,150	1942	May 16, 1942	15.20	17,000
	Apr. 16, 1929	11.95	10,000		May 22, 1942	16.77	20,700
	May 3, 1929	8.50	5,130		June 27, 1942	9.11	6,120
1930	Nov. 18, 1929	-	15,000		Aug. 9, 1942	8.46	5,280
	Mar. 8, 1930	10.05	7,250	1943	Oct. 16, 1942	12.92	12,300
1931	May 21, 1931	6.63	2,950		Dec. 30, 1942	11.70	10,100
1932	Feb. 5, 1932	11.05	8,650		Mar. 13, 1943	10.70	8,470
	Mar. 28, 1932	8.93	5,810		June 9, 1943	9.70	6,960
1933	Oct. 18, 1932	12.63	11,100	1944	May 7, 1944	9.52	6,680
	Mar. 20, 1933	9.25	6,080	1945	Sept. 18, 1945	9.41	6,540
	Apr. 17, 1933	11.85	9,850	1946	Jan. 8, 1946	8.67	5,560
	Sept. 15, 1933	8.80	5,550	1947	Mar. 14, 1947	10.20	7,700
1934	Mar. 3, 1934	9.42	6,360	1948	Feb. 14, 1948	10.80	8,630
	Mar. 28, 1934	8.61	5,290	1949	Nov. 7, 1948	9.17	6,260
1935	Dec. 1, 1934	14.29	13,800		Nov. 29, 1948	9.28	6,400
	Jan. 23, 1935	-	(a)		Dec. 4, 1948	12.53	11,600
	Mar. 13, 1935	9.46	6,500		Dec. 30, 1948	8.67	5,560
	Apr. 1, 1935	8.92	5,680		Jan. 6, 1949	8.46	5,280
	Sept. 6, 1935	12.28	10,600		Apr. 14, 1949	11.77	10,300
1936	Nov. 13, 1935	8.90	5,680		June 18, 1949	13.98	14,500
	Jan. 3, 1936	9.80	6,920	1950	Nov. 2, 1949	8.52	5,280
	Jan. 19, 1936	8.70	5,420		Feb. 2, 1950	9.35	6,540
	Feb. 15, 1936	8.53	5,160		Sept. 10, 1950	18.0	23,700
	Mar. 18, 1936	23.58	40,000		Sept. 13, 1950	11.5	9,770
	Apr. 6, 1936	-	-	1951	Dec. 4, 1950	13.73	13,900
1937	Jan. 2, 1937	-	-		Dec. 8, 1950	14.28	15,100
	Jan. 21, 1937	11.97	10,200		Feb. 2, 1951	8.34	5,010
	Feb. 22, 1937	9.17	6,030		Feb. 7, 1951	9.77	7,100
	Apr. 26, 1937	10.59	8,050		Apr. 13, 1951	8.45	5,140
1938	Oct. 19, 1937	14.03	13,400		June 13, 1951	12.04	10,600
	Oct. 28, 1937	11.48	9,400		July 14, 1951	8.90	5,840
	July 23, 1938	10.86	8,500	1952	Mar. 11, 1952	12.78	12,100
	Aug. 7, 1938	13.97	13,400	1953	Feb. 21, 1953	13.66	13,900
1939	Jan. 30, 1939	11.12	8,800		Mar. 24, 1953	12.72	11,900
	Feb. 4, 1939	11.18	8,950				

a Exceeded 10,000 cfs.

JAMES RIVER BASIN

Peak stages and discharges of Maury River near Lexington, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 21, 1954	9.77	7,100	1956	Mar. 14, 1956	7.55	4,100
	Mar. 1, 1954	14.22	14,900				
1955	Oct. 15, 1954	11.80	10,300	1957	Apr. 6, 1957	13.16	12,900
	Nov. 21, 1954	10.25	7,700	1958	Apr. 1, 1958	8.47	5,280
	Dec. 30, 1954	10.25	7,700				
	Feb. 7, 1955	9.89	7,250	1959	June 3, 1959	10.28	7,850
	Mar. 6, 1955	11.76	10,300				
	Mar. 22, 1955	9.54	6,680				
	Aug. 18, 1955	10.36	8,000				

233. St. Marys River near Steels Tavern, Va.

Location.--Lat 37°55'50", long 79°09'55", at bridge on Route 608, 2½ miles north-east of Vesuvius, 3 miles east of Steels Tavern, and 5 miles south of Greenville, Augusta County.

Drainage area.--15.7 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 1,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 360 cfs and extended to 2,770 cfs on basis of slope-area measurement.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 4, 1950	5.1	1,500	1956	September 1956	2.81	340
1952	Mar. 11, 1952	3.9	790	1957	Apr. 5, 1957	3.77	720
1953	December 1952	2.91	370	1958	Dec. 26, 1957	3.82	750
1954	Mar. 1, 1954	4.57	1,150	1959	Sept. 30, 1959	4.43	1,080
1955	Aug. 18, 1955	6.52	2,770				

235. South River near Riverside, Va.

Location.--Lat 37°47'00", long 79°21'35", on right bank 20 ft upstream from highway bridge, 1.1 miles southwest of Riverside, Rockbridge County, 1.9 miles upstream from mouth, and 4 miles east of Lexington.

Drainage area.--111 sq mi.

Gage.--Recording. Altitude of gage is 910 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs 1950-58, and below 3,000 cfs for 1959. A large shift occurred in June 1959 as a result of bulldozing of channel.

Bankfull stage.--4 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 800 cfs.

JAMES RIVER BASIN

Peak stages and discharges of South River near Riverside, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	a13.7	-	1953	Mar. 24, 1953 June 17, 1953	6.25 5.29	1,440 835
1950	Feb. 2, 1950 May 27, 1950 May 31, 1950 June 10, 1950	5.54 5.52 5.35 6.14	972 945 862 1,360	1954	Mar. 1, 1954 May 21, 1954	8.78 5.25	4,000 808
1951	Dec. 4, 1950 Dec. 7, 1950 Feb. 7, 1951 Mar. 14, 1951 Mar. 30, 1951 Apr. 11, 1951 June 5, 1951	8.60 8.67 5.80 5.48 5.82 5.63 8.31	3,730 3,860 1,120 945 1,120 1,030 3,350	1955	Oct. 15, 1954 Nov. 21, 1954 Dec. 30, 1954 Feb. 6, 1955 Mar. 4, 1955 Apr. 14, 1955 June 7, 1955 Aug. 18, 1955	9.44 7.04 6.57 6.09 8.00 5.78 6.24 9.20	4,890 2,080 1,650 1,280 3,010 1,050 1,400 4,590
1952	Dec. 21, 1951 Jan. 28, 1952 Feb. 4, 1952 Mar. 11, 1952 Apr. 28, 1952 May 11, 1952 Aug. 8, 1952 Sept. 1, 1952	5.79 6.05 6.98 7.30 6.62 5.43 5.58 5.84	1,120 1,300 2,040 2,310 1,720 918 1,000 1,160	1956	Feb. 7, 1956 Mar. 14, 1956	4.83 4.83	472 472
1953	Nov. 21, 1952 Dec. 11, 1952 Feb. 21, 1953 Mar. 15, 1953	5.36 6.20 6.00 5.27	862 1,400 1,260 810	1958	Feb. 27, 1958 Mar. 31, 1958 Apr. 23, 1958 May 7, 1958 Aug. 15, 1958	5.93 6.89 6.75 5.57 5.51	1,160 1,950 1,820 879 837
				1959	Dec. 29, 1958 June 2, 1959 Sept. 30, 1959	7.53 8.06 7.12	2,510 3,120 3,740

a From information by local residents.

240. Maury River near Buena Vista, Va.
(Published as North River prior to October 1945)

Location.--Lat 37°45'45", long 79°23'30", on right bank 0.5 mile downstream from South River and 2.8 miles northwest of Buena Vista, Rockbridge County.

Drainage area.--649 sq mi.

Gage.--Recording. Datum of gage is 846.58 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended above.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 6,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	a22	-	1946	Jan. 8, 1946	9.24	6,630
1939	Jan. 30, 31, 1939 Feb. 4, 1939	- -	10,800 11,000	1947	Mar. 14, 1947	10.59	9,020
1940	May 31, 1940 Aug. 16, 1940 Aug. 31, 1940	12.54 13.36 11.31	12,900 14,700 10,300	1948	Feb. 14, 1948 Apr. 1, 1948 Aug. 1, 1948 Aug. 4, 1948	11.54 9.35 9.91 9.51	10,700 6,950 7,780 7,110
1941	Apr. 5, 1941	9.33	6,790	1949	Nov. 7, 1948 Nov. 29, 1948 Dec. 4, 1948 Dec. 30, 1948 Jan. 6, 1949 Apr. 14, 1949 June 18, 1949 July 15, 1949	- 10.14 13.84 9.55 10.2 11.63 13.17 9.13	8,000 8,120 15,600 7,270 8,300 10,900 14,200 6,470
1942	May 16, 1942 May 22, 1942	14.37 16.0	17,100 21,700	1950	Feb. 2, 1950 Sept. 10, 1950 Sept. 13, 1950	9.65 16.2 10.65	7,270 22,400 9,020
1943	Oct. 16, 1942 Dec. 30, 1942 Mar. 13, 1943 June 9, 10, 1943	13.58 11.98 10.6 9.87	15,200 11,700 9,020 7,780				
1944	May 7, 1944	10.2	8,300				
1945	Sept. 18, 1945	10.3	8,480				

a From information by local residents.

Peak stages and discharges of Maury River near Buena Vista, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 5, 1950	13.18	14,200	1955	Nov. 21, 1954	10.24	8,300
	Dec. 8, 1950	13.76	15,600		Dec. 30, 1954	10.24	8,300
	Feb. 7, 1951	9.68	7,440		Feb. 7, 1955	9.72	7,440
	June 13, 1951	11.52	10,700		Mar. 7, 1955	11.10	11,500
1952	Feb. 4, 1952	9.19	6,630	Mar. 22, 1955	9.37	6,950	
	Mar. 11, 1952	12.75	13,400	Aug. 18, 1955	10.65	9,020	
	Apr. 28, 1952	8.98	6,310	1956	Mar. 14, 1956	7.85	4,770
1953	Feb. 21, 1953	12.88	13,600	1957	Apr. 6, 1957	12.39	12,500
	Mar. 24, 1953	12.20	12,100	1958	Apr. 1, 1958	8.80	6,010
1954	Feb. 21, 1954	9.48	7,110	1959	June 3, 1959	10.45	8,660
	Mar. 1, 1954	13.80	15,600	Sept. 30, 1959	10.58	9,020	
1955	Oct. 15, 1954	12.35	12,500				

242. Maury River at Buena Vista, Va.

Location.--Lat 37°44', long 79°21', in pool of fixed type dam of Columbian Paper Co. on U. S. Highway 60, 1 mile northwest of Buena Vista, Rockbridge County.

Drainage area.--670 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 835.3 ft above mean sea level, datum of 1929.

Bankfull stage.--8 ft.

Remarks.--Entire record taken from unpublished data collected by the U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	10.5	-	1948	Feb. 14, 1948	4.6	-
				1949	Dec. 4, 1948	6.0	-
1938	Oct. 20, 1937	6.8	-	1951	June 13, 1951	4.6	-
1939	Feb. 4, 1939	4.5	-	1952	Mar. 11, 1952	5.4	-
1940	Aug. 16, 1940	5.6	-	1953	Mar. 24, 1953	5.2	-
				1954	Mar. 1, 1954	6.0	-
1941	Apr. 5, 1941	3.4	-	1955	Oct. 15, 1954	5.1	-
1942	May 22, 1942	7.4	-	1956	Mar. 15, 1956	2.4	-
1943	Oct. 16, 1942	5.9	-	1957	Apr. 5, 1957	5.3	-
1944	May 7, 1944	3.7	-	1958	Mar. 31, 1958	3.2	-
1945	Sept. 18, 1945	3.8	-	1959	June 3, 1959	4.0	-
1946	Jan. 8, 1946	3.3	-				
1947	Mar. 15, 1947	3.6	-				

245. Maury River at Glasgow, Va.
(Published as North River at Glasgow)

Location.--Lat 37°38', long 79°27', at highway bridge three-quarters of a mile from post office at Glasgow, Rockbridge County, and 1 mile above mouth.

Drainage area.--831 sq mi.

Gage.--Nonrecording. Altitude of gage is 710 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--13 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	Sept. 30, 1896	16.0	37,200	1901	June 16, 1901	8.9	16,100
1897	Feb. 23, 1897	10.0	16,900	1902	Dec. 29, 1901	16.0	42,000
1898	Aug. 11, 1898	9.8	16,300	1903	Feb. 17, 1903	10.0	19,500
1899	Mar. 5, 1899	13.05	30,000	1904	May 19, 1904	5.5	7,400
1900	Feb. 22, 1900	7.6	12,600	1905	July 13, 1905	9.4	17,600

246. James River at Balcony Falls, Va.

Location.--Lat 37°37', long 79°27', in the pool or forebay of the Balcony Falls dam of the Virginia Electric & Power Co. at Balcony Falls, Rockbridge County, and at mile 288.

Drainage area.--2,975 sq mi.

Gage.--Nonrecording. Datum of gage is 703.598 ft above mean sea level, datum of 1929.

Bankfull stage.--18 ft.

Remarks.--Entire record taken from unpublished data collected by the U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	20.6	-	1951	Dec. 8, 1950	12.2	-
				1952	Mar. 12, 1952	10.7	-
1938	Oct. 20, 1937	13.0	-	1953	Feb. 22, 1953	11.8	-
				1954	Mar. 2, 1954	13.2	-
1940	Aug. 16, 1940	16.7	-	1955	Mar. 7, 1955	12.2	-
1944	Sept. 19, 1944	8.0	-	1956	Mar. 15, 1956	6.8	-
				1957	Apr. 6, 1957	11.9	-
1948	Feb. 15, 1948	10.5	-	1958	Mar. 31, 1958	9.0	-
1949	Apr. 14, 1949	11.0	-	1959	June 3, 1959	7.3	-
1950	Sept. 10, 1950	13.0	-				

JAMES RIVER BASIN

250. Pedlar River near Pedlar Mills, Va.

Location.--Lat 37°32'35", long 79°15'10", on right bank 6 ft downstream from highway bridge, 1.2 miles south of Pedlar Mills, Amherst County, 1.5 miles downstream from Horsley Mill Creek, and 3.7 miles upstream from mouth.

Drainage area.--91 sq mi, approximately.

Gage.--Recording. Altitude of gage is 656 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 1942	(a)	(a)	1951	Dec. 4, 1950	7.64	2,580
	Aug. 8, 1942	14.10	11,200		Dec. 7, 1950	7.75	2,660
1943	Oct. 15, 1942	13.57	10,400		Feb. 7, 1951	7.96	2,900
	Dec. 30, 1942	9.17	4,440	Mar. 30, 1951	5.93	1,450	
	Apr. 19, 1943	5.96	1,530	1952	Dec. 4, 1951	5.86	1,400
	May 26, 1943	6.90	2,220		Dec. 21, 1951	7.53	2,500
	July 10, 1943	6.20	1,680		Mar. 11, 1952	9.63	4,620
1944	Sept. 19, 1944	10.7	6,080		Mar. 19, 1952	5.74	1,340
					May 11, 1952	7.79	2,740
1945	Oct. 20, 1944	4.92	926	Aug. 9, 1952	7.26	2,340	
1946	Dec. 5, 1945	5.68	1,320	Aug. 15, 1952	5.84	1,400	
1947	June 14, 1947	6.38	1,660	1953	Sept. 1, 1952	9.46	4,500
					Dec. 11, 1952	6.78	1,960
1948	Feb. 14, 1948	6.16	1,600		Jan. 24, 1953	5.66	1,400
	Mar. 24, 1948	6.50	1,780		Feb. 21, 1953	7.25	2,260
	Mar. 27, 1948	5.81	1,370	Mar. 24, 1953	7.89	2,820	
	Apr. 1, 1948	9.84	4,860	1954	Feb. 21, 1954	5.78	1,370
	Aug. 4, 1948	7.86	2,820		Mar. 1, 1954	7.52	2,500
1949	Dec. 4, 1948	11.44	7,060	1955	Oct. 15, 1954	10.00	5,100
	Dec. 30, 1948	7.82	2,740		Nov. 21, 1954	8.68	3,580
	Jan. 5, 1949	6.58	1,840		Feb. 6, 1955	7.59	2,570
	Mar. 23, 1949	10.76	6,220		Mar. 6, 1955	6.52	1,790
	May 2, 1949	6.07	1,510		Apr. 14, 1955	5.84	1,390
	June 17, 1949	7.64	2,580	Aug. 9, 1955	5.77	1,360	
	July 16, 1949	9.38	4,380	Aug. 18, 1955	11.28	6,890	
	1950	May 31, 1950	6.75	1,960	1956	July 20, 1956	4.77	856
Sept. 10, 1950		7.77	2,740				

a Probably exceeded flood of Aug. 8, 1942.

JAMES RIVER BASIN

255. James River at Holcombs Rock, Va.
(Published as "at Salt Creek" 1927-31)

Location.--Lat 37°30'04", long 79°15'46", on right bank at Holcombs Rock, Bedford County, 0.9 mile downstream from Pedlar River, and at mile 263.2.

Drainage area.--3,250 sq mi.

Gage.--Nonrecording at site 1,000 ft upstream at different datum prior to Dec. 3, 1926; recording thereafter. At site 2 miles downstream at different datum Dec. 3, 1926, to June 10, 1931. Datum of gage is 548.53 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Period 1900-17 defined by curves of relation based on stage graphs, flood stage of March 1913, and records for station at Buchanan. Defined by current-meter measurements below 17,000 cfs at 1927-31 site, below 57,000 cfs at present site, and extended above on basis of records for other stations in James River basin.

Bankfull stage.--12 ft.

Remarks.--Gage-height records only, for 1900-17, furnished by Virginia Electrolytic Co. Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1917. Base for partial-duration series, 25,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	Mar. 21, 1900	11.3	29,000	1935	Dec. 1, 1934	24.65	73,500
1901	Apr. 21, 1901	16.5	52,000		Jan. 23, 1935	26.61	86,300
1902	Mar. 1, 1902	21.0	78,000		Mar. 13, 1935	15.80	30,200
1903	Mar. 24, 1903	16.6	53,000		Mar. 26, 1935	15.09	27,500
1904	May 19, 1904	11.8	31,000		Apr. 2, 1935	19.07	43,900
1905	July 13, 1905	17.7	58,000		Sept. 8, 1935	15.05	27,100
					Sept. 6, 1935	19.82	47,200
1906	Jan. 24, 1906	11.0	28,000	1936	Jan. 4, 1936	-	36,000
1907	Oct. 20, 1906	19.5	69,000		Jan. 20, 1936	16.42	32,500
1908	Jan. 13, 1908	19.6	70,000		Feb. 15, 1936	18.52	41,200
1909	Apr. 14, 1909	17.5	58,000		Mar. 18, 1936	30.78	115,000
1910	June 14, 1910	15.9	50,000		Apr. 7, 1936	15.67	29,800
1911	Jan. 31, 1911	12.0	32,000	1937	Jan. 3, 1937	18.75	42,500
1912	Mar. 30, 1912	17.0	55,000		Jan. 21, 1937	21.15	53,100
1913	Mar. 28, 1913	31.3	118,000		Apr. 26, 1937	-	40,000
1914	Feb. 1, 1914	10.2	25,000	1938	Oct. 20, 1937	22.52	59,000
1915	Jan. 7, 1915	21.0	78,000		Oct. 28, 1937	19.38	45,100
1916	Dec. 30, 1915	10.5	26,000		July 24, 1938	17.65	37,400
1917	Mar. 5, 1917	16.6	53,000	1939	Jan. 31, 1939	18.62	41,600
1927	Dec. 27, 1926	14.51	45,000		Feb. 4, 1939	17.85	38,200
	Feb. 20, 1927	13.54	40,400		Aug. 19, 1939	17.90	38,700
	Apr. 23, 1927	11.14	29,900	1940	Apr. 21, 1940	18.26	40,400
1928	Aug. 16, 1928	16.8	65,000		May 31, 1940	21.63	54,900
	Sept. 20, 1928	11.03	29,500		Aug. 16, 1940	24.25	66,800
1929	Mar. 1, 1929	12.83	37,300	1941	July 8, 1941	14.35	25,000
	Mar. 6, 1929	12.28	35,100	1942	May 17, 1942	22.45	58,500
1930	Oct. 23, 1929	10.36	27,000		May 22, 1942	24.62	68,700
	Nov. 19, 1929	14.92	46,800		Aug. 14, 1942	15.50	29,000
1931	Mar. 30, 1931	7.29	14,600	1943	Oct. 15, 1942	16.1	31,300
1932	Feb. 5, 1932	17.90	38,700		Dec. 31, 1942	18.48	41,200
	Mar. 29, 1932	15.70	29,800		Mar. 14, 1943	18.02	39,100
	May 2, 1932	15.07	27,500		Apr. 20, 1943	16.80	34,100
1933	Oct. 17, 1932	19.42	45,300	1944	Sept. 19, 1944	16.6	33,300
	Nov. 10, 1932	14.62	25,700	1945	Sept. 19, 1945	15.7	29,800
	Dec. 29, 1932	16.10	31,300	1946	Jan. 8, 1946	17.94	38,700
	Mar. 21, 1933	16.30	32,100	1947	Mar. 15, 1947	15.90	30,600
	Apr. 17, 1933	18.15	39,900	1948	Nov. 4, 1947	16.35	32,500
1934	Mar. 5, 1934	16.6	33,300		Feb. 15, 1948	19.9	47,600
	Mar. 29, 1934	17.66	37,800				

Peak stages and discharges of James River at Holcombs Rock, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 25, 1948	15.5	29,000	1953	Feb. 22, 1953	21.63	56,100
1949	Nov. 29, 1948	18.73	42,100	1954	Mar. 25, 1953	20.80	52,000
	Dec. 4, 1948	22.8	62,700		Mar. 2, 1954	22.8	62,700
	Dec. 16, 1948	16.55	35,500	1955	Oct. 15, 1954	21.38	54,900
	Jan. 6, 1949	17.10	35,500		Nov. 21, 1954	14.80	26,400
	Apr. 14, 1949	22.9	63,500		Dec. 31, 1954	17.38	36,500
June 19, 1949	14.92	26,800	Feb. 8, 1955		17.45	36,800	
Nov. 2, 1949	15.12	24,500	Mar. 2, 1955		14.58	25,600	
1950	Feb. 3, 1950	18.09	39,500	Mar. 7, 1955	23.33	65,900	
	Sept. 10, 1950	24.0	69,900	Mar. 23, 1955	15.68	29,700	
	Sept. 4, 1950	15.36	28,600	1956	Mar. 15, 1956	12.60	18,800
	Dec. 5, 1950	17.94	38,700		1957	Jan. 31, 1957	14.63	25,700
Dec. 8, 1950	22.83	62,700	Apr. 6, 1957	22.36		60,500	
Mar. 31, 1951	17.33	36,200	1958	Mar. 31, 1958		18.08	29,500
Apr. 13, 1951	15.56	29,400		May 6, 1958	15.40	28,600	
June 14, 1951	18.38	40,800		1959	Sept. 30, 1959	15.49	29,000
1952	Jan. 28, 1952	15.63	29,400				
	Feb. 4, 1952	14.63	25,700				
	Mar. 12, 1952	20.33	49,600				

257. James River at Lynchburg, Va.

Location.--Lat 37°25'10", long 79°08'20", on upstream side of bridge on U. S. Highway 29, at Lynchburg, Amherst County.

Drainage area.--3,305 sq mi.

Gage.--Nonrecording. Prior to Mar. 15, 1918, at site 750 ft downstream at same datum. Datum of gage is 499.06 ft above mean sea level (levels by U. S. Weather Bureau).

Bankfull stage.--18 ft.

Remarks.--Record since 1893 taken from publications of the U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1771	May 26, 1771	a30	-	1906	Jan. 24, 1906	8.2	-
1870	Sept. 30, 1870	a29.4	-	1907	Oct. 20, 1906	14.6	-
				1908	Jan. 13, 1908	16.2	-
1878	Nov. 24, 1877	a28.0	-	1909	Apr. 15, 1909	10.7	-
				1910	June 14, 1910	12.7	-
1886	Apr. 1, 1886	a23.4	-	1911	Jan. 31, 1911	8.2	-
1889	June 1, 1889	a24.4	-	1912	Mar. 30, 1912	13.9	-
				1913	Mar. 28, 1913	24.6	-
1893	May 5, 1893	12.2	-	1914	Feb. 1, 1914	8.2	-
1894	Oct. 15, 1893	7.3	-	1915	Jan. 8, 1915	17.2	-
1895	Apr. 9, 1895	15.0	-	1916	Oct. 2, 1915	11.4	-
1896	Sept. 30, 1896	14.4	-		Mar. 5, 1917	14.2	-
					1918	Mar. 14, 1918	13.8
1897	Feb. 24, 1897	13.6	-	1919	Jan. 3, 1919	17.4	-
1898	Aug. 11, 1898	9.5	-	1920	Jan. 25, 1920	23.9	-
1899	Mar. 5, 1899	19.0	-	1921	Jan. 24, 1921	7.9	-
1900	Mar. 21, 1900	8.7	-		Mar. 11, 1922	11.0	-
1901	Nov. 27, 1900	15.4	-		Mar. 8, 1923	8.1	-
1902	Dec. 30, 1901	21.2	-		May 12, 1924	19.1	-
1903	Mar. 24, 1903	12.7	-		1925	Jan. 19, 1925	6.9
1904	May 19, 1904	6.9	-				
1905	July 13, 1905	12.2	-				

a From congressional documents: 75d Cong., 2d sess., H. Doc. 192, James River (1933).

Peak stages and discharges of James River at Lynchburg, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 19, 1926	12.0	-	1943	Dec. 31, 1942	13.0	-
1927	Dec. 27, 1926	14.4	-	1944	Sept.19, 1944	14.9	-
1928	Aug. 17, 1928	17.2	-	1945	Sept.19, 1945	11.0	-
1929	Mar. 6, 1929	11.2	-				
1930	Nov. 19, 1929	14.1	-	1946	Jan. 9, 1946	13.0	-
				1947	Jan. 21, 1947	9.6	-
1931	Mar. 30, 1931	6.4	-	1948	Feb. 15, 1948	14.5	-
1932	Feb. 5, Mar. 29	10.2	-	1949	Dec. 4, 1948	17.5	-
1933	Oct. 18, 1932	13.4	-	1950	Sept.10, 1950	17.8	-
	Apr. 17, 1933	13.4	-				
1934	Mar. 5, 6, 1934	11.0	-	1951	Dec. 8, 1950	16.4	-
1935	Jan. 23, 1935	22.0	-	1952	Mar. 12, 1952	14.6	-
				1953	Feb. 22, 1953	15.6	-
1936	Mar. 18, 1936	24.7	-	1954	Mar. 2, 1954	16.2	-
1937	Jan. 21, 1937	14.7	-	1955	Mar. 7, 1955	16.6	-
1938	Oct. 20, 1937	16.0	-				
1939	Aug. 19, 1939	13.5	-	1956	Apr. 17, 1956	8.3	-
1940	Aug. 16, 1940	18.4	-	1957	Apr. 6, 1957	16.3	-
				1958	Apr. 1, 1958	12.5	-
1941	July 8, 1941	9.4	-	1959	June 3, 1959	9.5	-
1942	May 22, 1942	18.3	-				

260. James River at Bent Creek, Va.

(Published as "at Bent Creek, near Gladstone" prior to 1926)

Location--Lat 37°32', long 78°50', on left bank 100 ft downstream from highway bridge at town of Bent Creek, Appomattox County, 150 ft downstream from Bent Creek, 1 mile downstream from Gladstone, and at mile 222.9.

Drainage area--3,671 sq mi.

Gage--Nonrecording prior to Sept. 13, 1930; recording thereafter. Datum of gage 381.39 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 74,000 cfs and extended above on basis of logarithmic plotting and records for other stations in James River basin.

Bankfull stage--16 ft.

Remarks--Only annual peaks are shown prior to Oct. 1, 1930. Base for partial-duration series, 26,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1870	Sept.30, 1870	a27	150,000	1933	Oct. 18, 1932	15.32	51,300
					Dec. 29, 1932	11.50	30,100
1878	Nov. 24, 1877	a24	125,000		Mar. 21, 1933	12.20	33,600
					Apr. 17, 1933	13.52	40,800
1886	Apr. 1, 1886	a19	79,000	1934	Mar. 5, 1934	11.83	31,600
1889	June 1, 1889	a19	79,000		Mar. 29, 1934	12.65	35,800
1925	May 1, 1925	6.05	7,060	1935	Dec. 1, 1934	19.65	86,200
					Jan. 24, 1935	20.22	91,000
1926	Jan. 20, 1926	12.33	35,000		Mar. 13, 1935	11.80	31,900
1927	Dec. 27, 1926	14.58	48,800		Mar. 27, 1935	11.05	27,600
1928	Aug. 17, 1928	18.80	74,000		Apr. 2, 1935	14.42	47,700
1929	Mar. 1, 1929	13.08	39,800		Sept. 6, 1935	17.05	66,000
1930	Nov. 19, 1929	14.60	48,800				
				1936	Jan. 3, 1936	12.78	37,700
1931	Aug. 23, 1931	8.21	15,200		Jan. 10, 1936	11.1	28,100
					Jan. 19, 1936	14.33	47,000
1932	Feb. 6, 1932	13.30	41,000		Feb. 15, 1936	14.35	47,700
	May 2, 1932	11.22	28,900		Mar. 18, 1936	23.02	115,000
					Apr. 7, 1936	11.53	30,200

a From flood profiles by Corps of Engineers.

JAMES RIVER BASIN

Peak stages and discharges of James River at Bent Creek, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 3, 1937	14.33	47,000	1949	Dec. 17, 1948	11.98	32,600
	Jan. 21, 1937	15.64	53,100		Jan. 7, 1949	12.61	35,800
	Apr. 27, 1937	13.75	43,800		Apr. 14, 1949	17.47	66,800
1938	Oct. 20, 1937	16.76	60,700	1950	Feb. 3, 1950	13.23	39,100
	Oct. 29, 1937	14.18	44,700		Sept. 10, 1950	17.8	69,200
	July 24, 1938	12.90	37,400		Sept. 14, 1950	11.1	28,100
1939	Jan. 31, 1939	13.80	42,400	1951	Dec. 5, 1950	12.95	38,000
	Feb. 5, 1939	13.22	39,100		Dec. 8, 1950	16.7	60,900
	Aug. 19, 1939	15.18	50,700		Apr. 1, 1951	12.62	35,800
1940	Apr. 21, 1940	13.29	39,600	1952	Apr. 14, 1951	11.38	29,600
	June 1, 1940	15.93	54,900		June 14, 1951	13.5	40,800
	Aug. 16, 1940	19.63	86,200		Jan. 30, 1952	12.27	34,200
1941	July 8, 1941	10.5	25,200	Feb. 6, 1952	10.97	27,600	
				Mar. 12, 1952	14.97	49,500	
1942	May 17, 1942	16.5	58,800	1953	Feb. 22, 1953	16.07	56,700
	May 23, 1942	18.34	70,400		Mar. 25, 1953	15.68	54,000
1943	Oct. 15, 1942	13.35	41,300	1954	Mar. 2, 1954	16.78	61,600
	Dec. 31, 1942	15.67	43,200				
	Mar. 14, 1943	15.10	39,500	1955	Oct. 16, 1954	15.10	50,200
	Apr. 21, 1943	12.25	34,700		Nov. 21, 1954	11.15	28,400
1944	Sept. 19, 1944	18.0	73,500	Dec. 31, 1954	12.55	35,500	
				Feb. 8, 1955	12.58	35,700	
1945	Sept. 18, 1945	12.6	36,500	Mar. 7, 1955	17.28	65,100	
				Mar. 24, 1955	11.26	28,900	
1946	Jan. 9, 1946	13.06	39,500	Aug. 18, 1955	11.62	30,700	
1947	Mar. 16, 1947	11.57	30,800	1956	Mar. 15, 1956	8.70	17,600
1948	Nov. 4, 1947	11.87	32,100	1957	Apr. 6, 1957	16.60	60,200
	Feb. 15, 1948	15.05	49,500				
	Mar. 25, 1948	11.36	29,600	1958	Apr. 1, 1958	13.39	41,200
	Apr. 1, 1948	12.72	36,400		May 7, 1958	11.64	32,000
	Aug. 4, 1948	13.01	38,000				
1949	Dec. 4, 1948	18.68	76,400	1959	Apr. 14, 1959	10.49	26,800
					June 4, 1959	10.71	27,600

265. Tye River at Roseland, Va.

Location.--Lat 37°45', long 78°59', at highway bridge, three-quarters of a mile southwest of Roseland, Nelson County, and three-quarters of a mile upstream from Hat Creek.

Drainage area.--68 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 643.3 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of velocity-area studies.

Remarks.--Only annual peaks are shown.

JAMES RIVER BASIN

Peak stages and discharges of Tye River at Roseland, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Apr. 22, 1927	a5.54	a676	1933	Oct. 17, 1932	9.1	4,310
1928	Aug. 16, 1928	8.65	3,490	1934	Sept. 16, 1934	10.02	6,000
1929	May 2, 1929	7.1	1,760	1935	Dec. 1, 1934	9.0	4,140
1930	Mar. 7, 1930	7.3	1,920				
1931	Aug. 22, 1931	6.4	1,280	1936	Mar. 17, 1936	8.92	3,970
1932	Mar. 6, 1932	6.0	1,040	1937	Feb. 22, 1937	7.8	2,410
				1938	Oct. 19, 1937	9.6	5,210

a Maximum during period Jan. 28 to Sept. 30.

270. Tye River near Lovingsston, Va.

Location.--Lat 37°43', long 78°58', on right bank at downstream side of highway bridge, 2 miles downstream from Hat Creek, 4 miles upstream from Piney River, and 6 miles southwest of Lovingsston, Nelson County.

Drainage area.--92 sq mi, approximately.

Gage.--Recording. Datum of gage is 578.39 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 7,600 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Subsequent to July 1, 1957, records published by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Sept. 16, 1934	-	7,500	1949	Aug. 29, 1949	4.78	1,260
1939	Jan. 30, 1939	4.73	1,450	1950	Sept. 10, 1950	8.02	3,870
	Aug. 19, 1939	11.13	6,900	1951	Dec. 4, 1950	8.51	4,320
1940	Aug. 16, 1940	11.94	7,700		Dec. 7, 1950	8.86	4,700
	Aug. 31, 1940	6.37	2,620		Feb. 7, 1951	5.72	1,930
1941	Dec. 29, 1940	5.05	1,640		Mar. 30, 1951	5.55	1,690
	July 7, 1941	5.18	1,740		June 5, 1951	5.23	1,630
1942	May 16, 1942	12.09	7,910		June 13, 1951	7.94	3,780
	May 22, 1942	9.12	4,940	1952	July 25, 1951	4.82	1,360
	June 9, 1942	5.60	2,120		Dec. 4, 1951	5.38	1,720
	Aug. 9, 1942	6.32	2,610		Dec. 21, 1951	6.30	2,400
	Aug. 14, 1942	6.53	2,750		Feb. 4, 1952	5.09	1,540
1943	Oct. 15, 1942	13.33	9,230		Mar. 11, 1952	10.82	6,600
	Dec. 30, 1942	6.20	2,540		Mar. 23, 1952	4.82	1,360
	Apr. 19, 1943	4.57	1,510		July 8, 1952	6.52	2,560
	May 26, 1943	4.84	1,630	1953	Sept. 1, 1952	6.88	2,880
1944	Sept. 19, 1944	13.7	9,670		Nov. 20, 1952	4.82	1,360
1945	Sept. 18, 1945	9.90	5,700		Dec. 11, 1952	5.32	1,660
	Sept. 27, 1945	7.87	3,860		Jan. 24, 1953	5.12	1,540
1946	Mar. 15, 1946	3.10	776		Feb. 21, 1953	6.92	2,880
1947	Mar. 14, 1947	4.68	1,380		Mar. 24, 1953	7.17	3,150
	June 14, 1947	4.90	1,690	1954	Feb. 21, 1954	5.42	1,720
1948	Feb. 14, 1948	4.55	1,270		Mar. 1, 1954	5.46	1,760
	Apr. 1, 1948	7.63	3,510	1955	Oct. 15, 1954	6.20	2,320
	Aug. 4, 1948	6.83	2,800		Nov. 21, 1954	5.75	1,960
1949	Nov. 20, 1948	4.80	1,220		Dec. 30, 1954	4.89	1,470
	Dec. 4, 1948	6.70	2,720		Feb. 6, 1955	5.19	1,640
	Dec. 30, 1948	5.70	1,920		Mar. 6, 1955	4.49	1,260
	Jan. 5, 1949	5.46	1,720		Apr. 14, 1955	4.83	1,440
	Mar. 23, 1949	5.32	1,610		Aug. 18, 1955	11.50	7,300
	June 18, 1949	10.1	5,900	1956	July 20, 1956	6.54	2,560
				1957	Feb. 26, 1957	7.18	3,150
					Apr. 2, 1957	6.15	2,320
					Apr. 5, 1957	5.45	1,760

JAMES RIVER BASIN

Peak stages and discharges of Tye River near Lovingson, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 23, 1957	5.20	1,640	1959	Dec. 29, 1958	5.92	2,080
	Apr. 28, 1957	4.40	1,210		June 2, 1959	7.56	3,510
1958	Apr. 23, 1958	5.43	1,760	Sept. 30, 1959	7.90	3,780	
	May 17, 1958	4.61	1,320				

275. Piney River at Piney River, Va.

Location.--Lat 37°42'10", long 79°01'40", on right bank 20 ft downstream from bridge on State Highway 151, 0.2 mile southwest of Piney River Post Office, Nelson County, 1.7 miles downstream from Indian Creek, and 2.5 miles south-east of Lowesville.

Drainage area.--48 sq mi, approximately.

Gage.--Recording. Datum of gage is 633.58 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--6 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 18, 1949	9.9	-	1954	Mar. 1, 1954	3.36	608
1950	Sept. 10, 1950	5.00	1,710	1955	Oct. 15, 1954	3.54	693
1951	Dec. 4, 1950	4.43	1,200		Nov. 20, 1954	4.84	1,520
	Dec. 7, 1950	6.08	2,740	Dec. 30, 1954	3.58	711	
	Feb. 7, 1951	3.86	810	Feb. 6, 1955	3.22	549	
	Mar. 30, 1951	3.47	608	Mar. 6, 1955	3.48	666	
	June 13, 1951	6.07	2,680	Apr. 14, 1955	4.21	1,120	
1952	Dec. 20, 1951	3.82	798	June 11, 1955	3.45	652	
	Feb. 5, 1952	3.36	600	Aug. 18, 1955	7.90	4,930	
	Mar. 11, 1952	5.31	1,930	1956	July 20, 1956	3.58	720
	Mar. 19, 1952	3.26	558		1957	Feb. 26, 1957	5.06	1,700
	Mar. 23, 1952	3.46	644	Apr. 2, 1957		3.69	770
	Apr. 27, 1952	3.13	508	Apr. 5, 1957		3.82	820
	May 11, 1952	3.17	524	June 6, 1957		3.60	720
	July 8, 1952	3.47	644	Sept. 13, 1957	3.13	520	
	Sept. 1, 1952	4.52	1,240	1958	Oct. 18, 1957	3.20	540
1953	Nov. 21, 1952	3.28	585		Apr. 23, 1958	3.55	698
	Dec. 10, 1952	4.04	952		Aug. 8, 1958	3.11	500
	Jan. 24, 1953	3.42	630	1959	June 2, 1959	5.04	1,700
	Feb. 21, 1953	4.85	1,520		Aug. 31, 1959	3.38	630
Mar. 24, 1953	4.89	1,570	Sept. 30, 1959		6.13	2,800	
1954	Feb. 21, 1954	3.34	608				

280. Buffalo River near Norwood, Va.

Location.--Lat 37°38', long 78°53', on right bank, 1 mile downstream from Tye River, 3 miles upstream from Rucker Run, and 4 1/4 miles upstream from mouth and Norwood, Nelson County.

Drainage area.--360 sq mi.

Gage.--Recording. Datum of gage is 400.78 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended on basis of slope-area measurement at 18,300 cfs and logarithmic plotting.

Bankfull stage.--10 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1940	Aug. 16, 1940	15.25	25,600	1949	Aug. 29, 1949	4.84	3,040	
	Aug. 28, 1940	4.88	3,120		1950	May 15, 1950	5.57	4,210
	Aug. 31, 1940	6.63	5,910	Sept. 10, 1950		9.56	11,900	
1941	Dec. 29, 1940	5.58	4,220	1951	Dec. 4, 1950	6.05	4,880	
1942	May 16, 1942	10.29	13,500		Dec. 8, 1950	6.42	5,560	
	May 22, 1942	6.85	6,270		Feb. 7, 1951	5.12	3,410	
	June 11, 1942	4.98	3,340		June 5, 1951	5.27	3,650	
	Aug. 8, 1942	6.00	4,880		June 13, 1951	7.77	8,170	
	Aug. 14, 1942	5.94	4,710	1952	Dec. 21, 1951	5.39	3,890	
1943	Oct. 15, 1942	18.1	33,500		Feb. 4, 1952	4.95	3,170	
	Dec. 30, 1942	5.0	3,270		Mar. 11, 1952	7.60	7,770	
	Apr. 19, 1943	5.83	4,540		Mar. 19, 1952	5.95	4,880	
	May 26, 1943	6.12	5,050		Mar. 23, 1952	5.90	4,710	
1944	May 6, 1944	5.75	4,540		July 8, 1952	4.97	3,170	
	Sept. 19, 1944	18.1	33,500		Sept. 1, 1952	6.68	6,090	
1945	Sept. 18, 1945	10.0	12,800	1953	Jan. 24, 1953	5.66	4,370	
1946	Dec. 6, 1945	4.33	2,260		Feb. 21, 1953	5.72	4,370	
					Mar. 24, 1953	6.77	6,270	
1947	June 14, 1947	5.37	3,810	1954	Dec. 14, 1953	5.14	3,490	
1948	Feb. 14, 1948	5.22	3,570	1955	Nov. 21, 1954	5.52	4,080	
	Mar. 24, 1948	5.13	3,490		Mar. 6, 1955	5.34	3,790	
	Mar. 27, 1948	5.21	3,570		Apr. 15, 1955	5.06	3,350	
	Apr. 1, 1948	9.89	12,600		June 11, 1955	5.19	3,550	
	May 7, 1948	4.85	3,010		Aug. 18, 1955	12.06	17,600	
	Aug. 4, 1948	10.79	14,600	1956	Apr. 16, 1956	4.27	2,110	
1949	Nov. 29, 1948	5.52	4,050		1957	Feb. 26, 1957	5.77	4,540
	Dec. 4, 1948	10.82	14,600	Apr. 2, 1957		5.03	3,300	
	Dec. 30, 1948	6.40	5,560	Apr. 5, 6, 1957	-	3,500		
	Jan. 6, 1949	6.52	5,730	1958	Mar. 31, 1958	5.10	3,410	
	Jan. 22, 1949	4.90	3,090		Apr. 22, 1958	5.35	3,810	
	Mar. 23, 1949	14.28	23,200		1959	Dec. 29, 1958	4.92	3,090
	May 3, 1949	5.06	3,330					
	June 18, 1949	12.24	18,000					

285. Rockfish River near Greenfield, Va.

Location.--Lat 37°52'10", long 78°49'25", on left bank 50 ft downstream from bridge on State Highway 634, 2.8 miles downstream from confluence of North and South Forks, and 4.1 miles south of Greenfield, Nelson County.

Drainage area.--96 sq mi, approximately.

Gage.--Recording. Datum of gage is 530.29 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 8,500 cfs and extended on basis of slope-area measurements at 11,000 cfs and 35,000 cfs, and peak runoff comparison for nearby stations.

Bankfull stage.--12 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1943	Oct. 15, 1942	23.4	30,000	1952	Dec. 4, 1951	7.01	1,790	
	Apr. 19, 1943	8.15	1,890		Dec. 21, 1951	7.48	2,060	
	May 26, 1943	7.2	1,360		Feb. 4, 1952	8.18	2,440	
1944	May 7, 1944	7.71	1,610		Mar. 11, 1952	13.30	6,840	
	Sept. 19, 1944	17.20	13,700		Apr. 27, 1952	7.98	2,100	
1945	Oct. 20, 1944	7.62	1,560	Aug. 5, 1952	6.25	1,240		
	Sept. 18, 1945	11.66	4,780	Sept. 1, 1952	7.71	1,950		
1946	Dec. 6, 1945	4.89	635	1953	Nov. 20, 1952	6.66	1,460	
	1947	Mar. 14, 1947	6.40		2,260	Jan. 24, 1953	7.68	1,950
July 9, 1947		6.98	1,280		Feb. 21, 1953	8.66	2,500	
July 21, 1947		7.13	1,320		Mar. 24, 1953	8.77	2,560	
1948	Feb. 14, 1948	7.03	1,280	Mar. 25, 1953	9.60	3,040		
	Apr. 1, 1948	9.28	3,050	1954	Mar. 1, 1954	6.68	1,460	
	Aug. 4, 1948	8.72	2,690		Oct. 15, 1954	6.39	1,330	
1949	Nov. 20, 1948	7.30	1,880		Dec. 30, 1954	6.47	1,360	
	Nov. 29, 1948	6.00	1,220		Feb. 6, 1955	7.31	1,760	
	Dec. 4, 1948	11.30	4,450		Mar. 22, 1955	7.56	2,080	
	Dec. 30, 1948	6.40	1,500	Apr. 15, 1955	6.70	1,450		
	Jan. 5, 1949	6.80	1,700	Aug. 18, 1955	16.45	12,200		
	Mar. 23, 1949	7.55	2,110	1956	July 20, 1956	8.85	2,560	
	May 2, 1949	8.90	2,820		Sept. 27, 1956	6.81	1,510	
June 18, 1949	9.70	3,300	1957		Oct. 31, 1956	6.43	1,300	
Aug. 29, 1949	6.20	1,400			Feb. 26, 1957	7.98	2,100	
1950	May 28, 1950	6.79		1,700	Apr. 2, 1957	7.98	2,100	
	May 29, 1950	6.52		1,550	Apr. 5, 1957	8.17	2,210	
	May 31, 1950	6.25	1,400	1958	Feb. 27, 1958	7.04	1,230	
	Sept. 10, 1950	8.25	2,440		Apr. 23, 1958	8.30	1,840	
	1951	Dec. 4, 1950	12.12	5,260	1959	Dec. 29, 1958	7.69	1,530
Dec. 7, 1950		-	4,800	June 2, 1959		10.85	3,260	
Feb. 7, 1951		6.65	1,800	July 24, 1959		7.58	1,480	
Mar. 30, 1951		5.99	1,290	July 27, 1959		7.00	1,230	
1952		June 13, 1951	7.67	2,160		Sept. 6, 1959	11.43	3,670
						Sept. 30, 1959	14.95	7,860

287. Cove Creek near Coveseville, Va.

Location.--Lat 37°52'06", long 78°43'32", at bridge on U. S. Highway 29, 1½ miles southwest of Coveseville, Albemarle County.

Drainage area.--4.0 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 640 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 30 cfs and extended to 2,000 cfs on basis of contracted-opening measurement.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Sept. 19, 1944	9.1	2,000	1954	Mar. 1, 1954	-	(a)
1950	May 31, 1950	6.2	820	1955	Aug. 18, 1955	6.52	900
				1956	July 10, 1956	4.41	380
1951	June 10, 1951	5.6	640	1957	Apr. 5, 1957	3.66	230
1952	Aug. 31, 1952	5.89	730	1958	July 27, 1958	4.99	490
1953	Mar. 25, 1953	4.1	305	1959	Sept. 30, 1959	8.2	1,560

a Peak stage below gage, discharge less than 100 cfs.

290. James River at Scottsville, Va.

Location.--Lat 37°47'50", long 78°29'30", on left bank 50 ft downstream from highway bridge at Scottsville, Albemarle County, 6.8 miles upstream from Hardware River, and at mile 184.6.

Drainage area.--4,571 sq mi.

Gage.--Nonrecording prior to Nov. 28, 1928; recording thereafter. Datum of gage is 253.18 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 103,000 cfs and extended above.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1928. Base for partial-duration series, 27,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1871	October 1870	a30.7	-	1932	Mar. 30, 1932	13.14	31,400
1876	November 1877	a27.9	160,000	1933	Oct. 18, 1932	18.45	59,500
1913	March 1913	25.16	121,000	Nov. 11, 1932	12.58	29,200	
				Dec. 29, 1932	14.22	36,400	
1925	Oct. 1, 1924	-	80,000	Mar. 21, 1933	14.33	36,900	
				Apr. 17, 1933	16.65	48,700	
1926	Jan. 20, 1926	15.80	42,300	1934	Mar. 29, 1934	14.70	38,800
1927	Feb. 20, 1927	15.68	41,900	Sept. 17, 1934	13.48	33,200	
1928	Aug. 17, 1928	20.92	75,600	1935	Dec. 2, 1934	22.63	86,800
1929	Feb. 28, 1929	15.90	44,700		Jan. 24, 1935	22.30	84,800
	Mar. 7, 1929	14.60	38,000		Mar. 14, 1935	13.92	35,000
	Apr. 18, 1929	14.62	38,000		Mar. 27, 1935	13.05	31,000
	May 4, 1929	12.85	29,700		Apr. 2, 1935	16.58	48,700
1930	Oct. 3, 1929	12.80	29,700	Sept. 6, 1935	23.06	93,400	
	Nov. 19, 1929	16.12	45,800	1936	Jan. 4, 1936	16.65	48,700
	Mar. 8, 1930	13.73	33,700		Jan. 20, 1936	18.32	58,900
Aug. 23, 1931	10.73	21,100	Feb. 16, 1936		16.68	49,200	
				Mar. 19, 1936	25.46	126,000	

a From information by local resident.

JAMES RIVER BASIN

Peak stages and discharges of James River at Scottsville, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1936	Apr. 8, 1936	13.56	32,700	1949	Dec. 4, 1948	22.9	94,200	
1937	Jan. 3, 1937	17.13	51,500	Dec. 17, 1948	14.17	35,500		
	Jan. 22, 1937	18.35	59,600	Dec. 31, 1948	13.16	31,000		
	Feb. 22, 1937	12.2	27,500	Jan. 7, 1949	15.27	41,200		
	Apr. 26, 1937	18.80	62,200	Mar. 23, 1949	20.22	71,900		
1938	Oct. 20, 1937	22.23	87,400	Apr. 15, 1949	19.35	66,300		
	Oct. 29, 1937	16.71	49,100	June 19, 1949	12.97	30,100		
	June 21, 1938	12.31	28,000	Aug. 15, 1949	16.90	50,300		
	June 22, 1938	12.09	27,100	1950	Nov. 3, 1949	12.52	28,000	
	July 24, 1938	15.20	41,500	Feb. 3, 1950	15.37	41,700		
	Aug. 4, 1938	13.00	31,000	Sept. 11, 1950	20.43	73,500		
1939	Feb. 1, 1939	15.66	43,800	1951	Dec. 5, 1950	15.48	42,300	
	Feb. 5, 1939	15.23	41,500	Dec. 9, 1950	19.17	64,900		
	Feb. 11, 1939	12.74	29,700	Feb. 8, 1951	12.35	27,600		
	Aug. 19, 1939	19.71	68,400	Apr. 1, 1951	14.78	38,500		
1940	Apr. 9, 1940	12.56	29,200	Apr. 10, 1951	13.10	30,600		
	Apr. 21, 1940	14.92	39,800	Apr. 14, 1951	13.70	33,200		
	June 1, 1940	17.63	54,500	June 15, 1951	16.50	48,000		
	Aug. 16, 1940	25.84	130,000	1952	Dec. 21, 1951	14.33	35,900	
1941	Sept. 1, 1940	13.11	31,400	Feb. 5, 1952	15.60	32,700		
	July 9, 1941	12.07	27,100	Mar. 13, 1952	17.59	54,500		
1942	May 18, 1942	19.07	64,200	Mar. 25, 1952	12.47	28,000		
	May 23, 1942	21.44	80,600	Apr. 29, 1952	12.93	29,700		
	Aug. 14, 1942	16.40	47,400	Sept. 1, 1952	14.28	35,900		
1943	Oct. 16, 1942	23.0	95,200	1953	Feb. 23, 1953	18.58	60,900	
	Dec. 30, 1942	16.74	49,100	Mar. 25, 1953	19.48	67,000		
	Mar. 15, 1943	14.98	39,600	1954	Mar. 3, 1954	18.9	62,900	
	Apr. 21, 1943	14.54	36,900	1955	Oct. 16, 1954	16.48	47,900	
1944	Sept. 19, 1944	26.0	133,000	Nov. 21, 1954	13.89	34,000		
1945	Sept. 18, 1945	18.0	57,000	Dec. 31, 1954	14.96	39,400		
1946	Jan. 9, 1946	15.3	41,200	Feb. 8, 1955	15.08	40,000		
	May 5, 1946	12.5	28,000	Mar. 7, 1955	19.94	70,000		
1947	Jan. 22, 1947	12.34	27,600	Mar. 24, 1955	13.54	32,500		
	Mar. 16, 1947	13.68	33,200	Aug. 18, 1955	19.06	64,000		
1948	Nov. 5, 1947	13.5	32,000	1956	Apr. 18, 1956	10.61	20,400	
	Feb. 15, 1948	18.0	57,000	1957	Jan. 31, 1957	12.46	28,000	
	Mar. 25, 1948	13.6	32,700	Mar. 2, 1957	12.50	28,000		
	Apr. 1, 1948	18.4	59,600	Apr. 7, 1957	19.14	64,200		
	Aug. 5, 1948	17.2	52,100	1958	Apr. 1, 1958	15.88	44,500	
1949	Nov. 30, 1948	16.3	46,800	May 7, 1958	14.42	36,400		
				1959	Apr. 14, 1959	12.51	28,000	
				June 3, 1959	12.81	29,300		

292. North Fork Hardware River at Red Hill, Va.

Location.--Lat 37°58'03", long 78°37'04", at bridge on U. S. Highway 29, 0.4 mile upstream from South Branch Hardware River and 0.5 mile west of Red Hill, Albemarle County.

Drainage area.--11.0 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs and extended to 4,030 cfs on basis of contracted-opening measurement.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of North Fork Hardware River at Red Hill, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept. 11, 1950	8.89	850	1955	Aug. 18, 1955	8.84	750
1951	November 1950	-	(a)	1956	July 20, 1956	7.76	390
1952	Mar. 11, 1952	7.77	390	1957	Apr. 7, 1957	6.45	270
1953	Mar. 25, 1953	6.75	300	1958	July 27, 1958	4.45	145
1954	Mar. 1, 1954	6.47	280	1959	Sept. 30, 1959	10.07	4,030

a Peak stage below gage, discharge less than 80 cfs.

294. South Branch of North Fork Hardware River near North Garden, Va.

Location.--Lat 37°57'21", long 78°39'35", at bridge on U. S. Highway 29 at Crossroads, 1½ miles northwest of North Garden, Albemarle County.

Drainage area.--6.59 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 690 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and extended to 3,050 on basis of contracted-opening measurement.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Aug. 15, 1949	8.8	1,870	1955	Aug. 18, 1955	7.50	1,100
1950	Sept. 11, 1950	8.76	1,870	1956	July 20, 1956	7.25	1,000
1951	-	6.57	730	1957	Apr. 5, 1957	5.15	370
1952	Aug. 31, 1952	5.68	490	1958	July 27, 1958	7.58	1,140
1953	Mar. 15, 1953	5.48	445	1959	Sept. 30, 1959	8.86	3,050
1954	Mar. 1, 1954	3.22	105				

295. Hardware River near Scottsville, Va.

Location.--Lat 37°50', long 78°29', at bridge on Woodridge-Scottsville Highway, 2 miles upstream from Briery Run, 3 miles north of Scottsville, Albemarle County, and 11½ miles upstream from mouth.

Drainage area.--104 sq mi.

Gage.--Nonrecording. Datum of gage is 308.50 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Dec. 26, 1926	10.20	1,510	1933	Oct. 17, 1932	16.0	4,470
1928	Aug. 26, 1928	16.62	4,690	1934	June 19, 1934	8.90	1,150
1929	June 24, 1929	16.30	4,510	1935	Sept. 5, 6, 1935	19.6	6,150
1930	Mar. 8, 1930	9.50	1,300	1936	Mar. 17, 1936	16.45	4,550
1931	June 1, 1931	8.10	952	1937	Apr. 25, 26, 1937	20.1	6,440
1932	May 12, 1932	12.8	2,600	1938	Oct. 19, 1937	16.0	4,350

300. Hardware River below Briery Run, near Scottsville, Va.

Location.--Lat 36°48'45", long 78°27'20", on left bank 75 ft upstream from highway bridge, 0.8 mile downstream from Briery Run, 2.4 miles northeast of Scottsville, Albemarle County, and 10.8 miles upstream from mouth.

Drainage area.--116 sq mi.

Gage.--Recording. Datum of gage is 294.96 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement of peak flow.

Bankfull stage.--8 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 11, 1939	10.04	1,370	1950	Sept. 11, 1950	10.25	1,660
					Sept. 14, 1950	10.03	1,590
1940	Apr. 9, 1940	11.87	2,360	1951	Dec. 4, 1950	12.42	2,920
	Aug. 16, 1940	13.73	4,250		June 10, 1951	12.72	3,200
1941	Apr. 5, 1941	10.70	1,740		June 14, 1951	10.22	1,660
1942	Aug. 9, 1942	11.02	1,880	1952	Dec. 21, 1951	12.61	3,100
1943	Oct. 15, 1942	13.68	4,250		Feb. 4, 1952	11.92	2,500
	Dec. 30, 1942	11.87	2,360		Mar. 11, 1952	12.86	3,400
1944	Sept. 19, 1944	23.8	23,000	1953	Apr. 28, 1952	12.79	3,300
1945	Sept. 18, 1945	10.4	1,600	1954	Nov. 20, 1952	11.07	2,440
1946	May 18, 1946	7.80	913		Mar. 26, 1953	10.70	2,270
1947	June 14, 1947	8.71	1,080	1954	Mar. 1, 1954	12.14	2,660
1948	Feb. 15, 1948	10.57	1,700	1955	Dec. 14, 1954	10.33	1,700
	Apr. 1, 1948	14.50	5,200		Aug. 18, 1955	15.73	6,800
	Aug. 4, 1948	12.29	2,830	1956	July 21, 1956	5.50	622
1949	Dec. 4, 1948	18.18	10,600	1957	Apr. 6, 1957	8.84	1,520
	Dec. 30, 1948	10.62	1,700	1958	Mar. 31, 1958	9.22	1,340
	June 6, 1949	10.60	1,700	1959	June 3, 1959	10.88	2,010
	Mar. 23, 1949	13.40	3,920				
	Aug. 15, 1949	18.48	11,100				

305. Slate River near Arvonnia, Va.

Location.--Lat 37°42'11", long 78°22'40", on left bank 100 ft upstream from Bumpers Bridge, 1.8 miles northwest of Arvonnia, Buckingham County, 2.9 miles upstream from Hunts Creek, and 3.8 miles upstream from mouth.

Drainage area.--235 sq mi.

Gage.--Nonrecording prior to Sept. 22, 1936. Recording thereafter. Datum of gage is 238.78 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended above on basis of velocity-area studies.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1936. Base for partial-duration series, 2,100 cfs.

JAMES RIVER BASIN

Peak stages and discharges of Slate River near Arvonnia, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Apr. 14, 1926	5.19	666	1946	Feb. 11, 1946	8.50	2,280
1927	Dec. 26, 1926	9.80	2,940		May 4, 1946	8.50	2,280
1928	Aug. 12, 1928	14.12	6,280				
1929	Apr. 17, 1929	12.12	4,720	1947	Jan. 20, 1947	8.76	2,160
1930	Mar. 8, 1930	8.80	2,310		Mar. 14, 1947	8.77	2,460
1931	Aug. 1, 1931	7.30	1,570	1948	Jan. 13, 1948	9.88	3,020
1932	Mar. 7, 1932	10.74	3,700		Feb. 14, 1948	11.13	3,980
1933	Oct. 17, 1932	10.50	3,560		Apr. 1, 1948	12.45	4,950
1934	Mar. 5, 1934	10.70	3,700		Apr. 8, 1948	9.00	2,580
1935	Sept. 6, 1935	22.18	13,600		Aug. 4, 1948	12.74	5,180
1936	Mar. 17, 18, 1936	16.10	7,980	1949	Oct. 5, 1948	8.57	2,340
1937	Jan. 3, 1937	11.77	4,500		Nov. 29, 1948	10.30	3,420
	Jan. 20, 1937	9.50	2,900		Dec. 4, 1948	18.25	9,780
	Jan. 29, 1937	8.23	2,100		Dec. 30, 1948	9.7	3,280
	Apr. 26, 1937	20.86	12,300		Jan. 6, 1949	9.30	2,860
	July 21, 1937	12.95	5,400		Jan. 22, 1949	9.39	2,920
1938	Oct. 4, 1937	10.44	3,490		Mar. 23, 1949	11.56	4,350
	Oct. 19, 1937	12.05	4,650		Aug. 15, 1949	12.77	5,250
	June 21, 1938	11.34	4,120	1950	Mar. 23, 1950	8.20	2,260
	June 28, 1938	10.25	3,350		May 29, 1950	8.61	2,440
	July 22, 1938	8.72	2,400		Sept. 10, 1950	9.25	2,800
	July 30, 1938	11.35	4,200	1951	Dec. 4, 1950	9.58	3,040
1939	Jan. 30, 1939	8.50	2,280	1952	Dec. 22, 1951	12.10	4,720
	Feb. 11, 1939	10.45	3,490		Jan. 23, 1952	8.71	2,500
	Feb. 28, 1939	9.45	2,830		Jan. 28, 1952	9.83	3,160
	Mar. 16, 1939	8.90	2,520		Feb. 4, 1952	10.55	3,640
	July 30, 1939	9.03	2,580		Mar. 19, 1952	8.19	2,200
	Aug. 20, 1939	10.67	3,700		Mar. 24, 1952	8.89	2,620
1940	Feb. 10, 1940	8.6	2,340		Apr. 25, 1952	8.16	2,200
	Feb. 19, 1940	9.80	3,090		Sept. 1, 1952	8.58	2,440
	Apr. 9, 1940	11.10	3,980	1953	Nov. 20, 1952	10.80	3,780
	Aug. 16, 1940	13.62	5,880		Mar. 5, 1953	8.47	2,380
1941	Nov. 15, 1940	9.20	2,700		Apr. 13, 1953	8.34	2,260
	Apr. 6, 1941	10.49	3,560	1954	Dec. 14, 1953	8.90	2,620
1942	Aug. 12, 1942	8.25	2,100		Mar. 1, 1954	11.61	4,350
1943	Oct. 16, 1942	10.53	3,560		Apr. 17, 1954	8.93	2,620
	Dec. 30, 1942	9.35	2,830		May 21, 1954	9.16	2,800
	Feb. 6, 1943	9.43	2,830	1955	Dec. 14, 1954	9.76	3,130
1944	Nov. 8, 1943	11.65	4,350		Feb. 7, 1955	8.53	2,390
	Jan. 3, 1944	8.78	2,460		Mar. 6, 1955	8.76	2,530
	Feb. 29, 1944	8.18	2,100		Aug. 13, 1955	9.62	3,050
	Mar. 7, 1944	8.31	2,160		Aug. 15, 1955	8.44	2,340
	Mar. 13, 1944	8.18	2,100		Aug. 19, 1955	16.75	8,490
	Mar. 23, 1944	8.76	2,460	1956	Apr. 16, 1956	7.59	1,840
	Sept. 13, 1944	8.19	2,100	1957	Nov. 18, 1956	8.34	2,260
	Sept. 18, 1944	13.12	5,480		Apr. 5, 1957	10.10	3,340
	Sept. 20, 1944	19.00	10,500	1958	Jan. 25, 1958	8.18	2,200
	Sept. 22, 1944	8.60	2,340		Feb. 27, 1958	8.60	2,440
1945	Jan. 1, 1945	8.33	2,160	1959	Dec. 29, 1958	11.18	4,050
	Sept. 19, 1945	13.00	5,400		Apr. 13, 1959	9.02	2,680
1946	Dec. 26, 1945	8.20	2,100		Apr. 20, 1959	8.67	2,500

307. James River at Breomo Bluff, Va.

Location.--Lat 37°42'38", long 78°17'57", at Virginia Electric & Power Co.'s steam plant, three-quarters of a mile downstream from Breomo Bluff, Fluvanna County, and at mile 171.

Drainage area.--5,040 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 191.4 ft above mean sea level, datum of 1929.

Bankfull stage.--21 ft.

Remarks.--Record since 1940 taken from unpublished data collected by the U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1848	November 1847	a29.5	-	1941	Apr. 6, 1941	16.0	-
1870	September 1870	a37.4	-	1942	May 24, 1942	26.3	-
1878	November 1877	a34.8	-	1943	Oct. 16, 1942	29.2	-
1886	-	a29.8	-	1944	Sept. 19, 1944	34.5	-
1889	-	a31.8	-	1945	Sept. 19, 1945	23.1	-
1899	March 1899	a32.6	-	1946	Jan. 9, 1946	17.3	-
1901	May 1901	a30.5	-	1947	Mar. 16, 1947	16.5	-
1913	March 1913	a30.1	-	1948	Apr. 1, 1948	25.0	-
1924	May 1924	a30.8	-	1949	Dec. 4, 1948	30.7	-
1935	September 1935	a32.6	-	1950	Sept. 11, 1950	25.3	-
1936	March 1936	a32.8	-	1951	Dec. 9, 1950	24.2	-
1940	Aug. 17, 1940	33.5	-	1952	Mar. 13, 1952	22.2	-
				1953	Mar. 26, 1953	24.8	-
				1954	Mar. 3, 1954	23.6	-
				1955	Aug. 18, 1955	26.7	-
				1956	Mar. 16, 1956	14.3	-
				1957	Apr. 7, 1957	24.2	-
				1958	Apr. 1, 1958	19.6	-
				1959	June 3, 1959	16.9	-

a From flood profile by Corps of Engineers.

310. Mechum River near Ivy, Va.

Location.--Lat 38°06'15", long 78°35'35", at bridge on State Highway 614, 2.6 miles downstream from Spring Creek, 3.3 miles north of town of Ivy, Albemarle County, and 4.7 miles upstream from confluence with Moomans River.

Drainage area.--97 sq mi, approximately.

Gage.--Recording. Altitude of gage is 440 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges of Mechum River near Ivy, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Oct. 15, 1942	30.3	20,000	1948	Aug. 4, 1948	10.90	3,490
	Dec. 30, 1942	10.80	3,030	1949	Dec. 4, 1948	14.7	5,340
	Apr. 19, 1943	7.77	1,730		Dec. 30, 1948	6.94	1,580
	July 12, 1943	6.95	1,420		Mar. 23, 1949	7.92	2,020
			May 9, 1949		7.31	1,740	
1944	Sept. 18, 1944	21.9	10,600	June 18, 1949	6.22	1,300	
1945	Oct. 21, 1944	8.70	2,090	1950	Sept. 10, 1950	7.25	1,900
	Sept. 18, 1945	9.32	2,360		Sept. 13, 1950	16.80	6,330
1946	Dec. 6, 1945	4.80	686	1951	Dec. 4, 1950	16.28	5,980
1947	July 9, 1947	5.58	878		Dec. 7, 1950	9.27	2,680
1948	Feb. 14, 1948	7.98	1,810		Feb. 7, 1951	8.41	2,320
	Apr. 1, 1948	9.50	2,740		June 13, 1951	4.93	1,220
	Aug. 1, 1948	8.16	2,150	1959	Sept. 30, 1959	18.05	7,200
Aug. 3, 1948	6.16	1,300					

315. North Fork Moormans River near Whitehall, Va.

Location.--Lat 38°08'25", long 78°45'05", on left bank 0.5 mile upstream from confluence with South Fork, 0.8 mile upstream from city of Charlottesville dam, and 5.1 miles west of Whitehall, Albemarle County.

Drainage area.--11.4 sq mi.

Gage.--Recording since Dec. 8, 1951. Concrete control November 1952 to August 1955. Altitude of gage is 999 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs and extended above by slope-area measurements at 2,400 cfs and 7,620 cfs. Shift occurred in August 1955, below 1,000 cfs.

Remarks.--Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Oct. 15, 1942	11.7	7,620	1955	Nov. 20, 1954	3.22	176
1952	Jan. 28, 1952	3.16	166		Mar. 6, 1955	3.57	243
	Feb. 4, 1952	4.40	437		Aug. 13, 1955	4.22	388
	Mar. 11, 1952	4.09	357	Aug. 18, 1955	7.94	2,400	
	Apr. 28, 1952	3.44	218	1956	July 20, 1956	3.33	158
	May 12, 1952	3.22	176		Oct. 27, 1956	3.41	178
	Sept. 1, 1952	3.69	267		Oct. 31, 1956	4.59	490
1953	Nov. 20, 1952	3.63	255	Feb. 26, 1957	4.70	520	
	Mar. 24, 1953	4.61	492	1958	Apr. 23, 1958	4.11	350
1954	Mar. 1, 1954	4.93	603		1959	Dec. 29, 1958	4.65	592
1955	Oct. 15, 1954	4.50	464	Sept. 30, 1959		5.97	1,180

JAMES RIVER BASIN

325. South Fork Rivanna River near Earlysville, Va.

Location.--Lat 38°07'30", long 78°31'05", on left bank 0.3 mile upstream from Fishing Creek, 3.0 miles southwest of Earlysville, Albemarle County, and 8.7 miles upstream from confluence with North Fork.

Drainage area.--216 sq mi.

Gage.--Recording since Dec. 21, 1951. Altitude of gage is 369 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 6,600 cfs and extended above on basis of contracted-opening measurement at 30,200 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	October 1942	a33	-	1955	Aug. 14, 1955 Aug. 18, 1955	8.05 26.1	2,760 30,200
1952	Dec. 21, 1951	8.12	2,790	1956	July 20, 1956 Sept. 27, 1956	9.04 8.98	3,480 3,480
	Feb. 4, 1952	12.18	6,190				
	Mar. 11, 1952	13.55	7,480				
	Apr. 28, 1952	9.23	3,640				
	May 12, 1952	7.36	2,310				
1953	Nov. 21, 1952	7.64	2,440	1957	Feb. 26, 1957 Apr. 5, 1957	8.75 8.05	3,300 2,720
	Jan. 24, 1953	8.00	2,720				
	Feb. 21, 1953	7.63	2,440				
	Mar. 25, 1953	11.71	5,750				
1954	Mar. 1, 1954	15.55	9,560	1958	Jan. 14, 1958 Feb. 28, 1958 Mar. 27, 1958 Mar. 31, 1958	7.06 7.27 7.35 8.22	2,180 2,300 2,360 2,860
1955	Oct. 16, 1954	7.53	2,400				
	Dec. 30, 1954	6.96	2,040				
	Mar. 6, 1955	9.75	4,070				
1959				June 2, 1959 Sept. 6, 1959 Sept. 30, 1959	12.22 9.10 24.35	6,190 3,540 25,500	

a From information by local residents.

327. Schenks Branch at Charlottesville, Va.

Location.--Lat 38°02'30", long 78°28'30", 30 ft upstream from old Fugby Avenue bridge, just upstream from U. S. Highway 250 bypass in Charlottesville, Va.

Drainage area.--1.34 sq mi.

Gage.--Crest-stage gage. At site 60 ft downstream prior to Apr. 7, 1955. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs and extended to 692 cfs on basis of slope-area and contracted-opening measurements.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept. 13, 1950	6.7	692	1956	July 20, 1956	8.60	650
1951	Dec. 4, 1950	4.1	175	1957	Sept. 17, 1957	4.75	210
	Aug. 31, 1952	-4.41	220	1958	July 27, 1958	6.45	400
1952	Aug. 31, 1952	-4.41	220	1959	Sept. 30, 1959	7.99	580
1953	May 20, 1953	6.0	510				
1955	Aug. 18, 1955	6.47	400				

335. Rivanna River below Moores Creek, near Charlottesville, Va.

Location.--Lat 30°01'09", long 78°27'13", 200 ft downstream from Moores Creek and 500 ft upstream from Virginia Public Service Co. powerplant near Charlottesville, Albemarle County.

Drainage area.--507 sq mi.

Gage.--Recording Aug. 8, 1925, to May 4, 1934. Datum of gage is 232.90 ft above mean sea level, adjustment unknown.

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Aug. 25, 1926	9.68	6,390	1930	Mar. 8, 1930	9.30	5,990
1927	Nov. 16, 1926	11.96	8,790	1931	June 15, 1931	8.77	5,490
	Nov. 19, 1926	9.68	6,390		July 25, 1931	11.00	7,690
	Dec. 26, 1926	9.35	6,090	1932	Mar. 6, 1932	10.37	7,100
1928	Oct. 4, 1927	11.83	8,570		1933	Oct. 17, 1932	15.0	12,100
	Oct. 13, 1927	11.20	7,910	Nov. 10, 1932		11.90	8,690
	Nov. 18, 1927	9.30	5,990	Jan. 26, 1933		9.43	6,100
	Apr. 28, 1928	10.80	7,490	Apr. 17, 1933		16.50	13,800
1929	Apr. 16, 1929	14.15	11,200	1934	Sept. 17, 1934	19	18,000
	May 3, 1929	9.17	5,890				
1930	Oct. 2, 1929	9.67	6,390	1943	October 1942	-	63,000
	Oct. 22, 1929	10.56	7,290				

340. Rivanna River at Palmyra, Va.

Location.--Lat 37°51'28", long 78°15'58", on left bank 10 ft upstream from highway bridge at Palmyra, Fluvanna County, 0.5 mile upstream from Cunningham Creek, and 15 miles upstream from mouth.

Drainage area.--675 sq mi.

Gage.--Recording prior to Oct. 24, 1942, at site 200 ft downstream at same datum. Nonrecording Oct. 24, 1942, to Dec. 18, 1947; recording thereafter. Datum of gage is 210.39 ft above mean sea level, datum of 1929, Culpeper supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--17 ft.

Remarks.--Only annual peaks are shown for period Oct. 1, 1942, to Dec. 18, 1947. Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1934	June 19, 1934	16.31	8,820	1937	Jan. 21, 1937	19.65	12,500	
	Sept. 17, 1934	24.75	24,000		Feb. 22, 1937	17.05	9,330	
1935	Dec. 1, 1934	20.60	13,200		Apr. 26, 1937	33.35	56,700	
	Jan. 23, 1935	20.17	12,800	1938	Oct. 20, 1937	23.45	20,000	
	Mar. 13, 1935	16.85	9,350		1939	Feb. 11, 1939	13.75	6,800
	Apr. 8, 1935	14.50	7,500	1940		Feb. 19, 1940	12.75	6,150
	Sept. 6, 1935	26.27	29,000			Apr. 9, 1940	15.34	7,860
1936	Jan. 3, 1936	20.54	13,900	Aug. 17, 1940	21.78	16,300		
	Jan. 19, 1936	19.53	12,400	1941	Apr. 6, 1941	14.87	7,560	
	Feb. 14, 1936	16.10	8,410		1942	Aug. 9, 1942	18.59	11,400
	Mar. 18, 1936	29.26	39,900					
1937	Oct. 18, 1936	18.19	10,600					
	Jan. 3, 1937	15.56	7,930					

Peak stages and discharges of Rivanna River at Palmyra, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Oct. 16, 1942	36.5	78,000	1951	Mar. 14, 1951	12.98	6,800
1944	Sept. 19, 1944	30.5	39,600		June 10, 1951	21.13	15,900
1945	Sept. 18, 1945	15.38	8,270		June 14, 1951	15.56	8,480
1946	Mar. 20, 1946	10.0	4,940	1952	Dec. 21, 1951	15.34	8,920
1947	Mar. 14, 1947	11.50	6,140		Feb. 4, 1952	17.38	11,000
1948	Feb. 15, 1948	15.0	9,100		Mar. 12, 1952	17.80	11,400
	Apr. 1, 1948	21.54	16,800		Apr. 28, 1952	15.98	9,600
	Aug. 2, 1948	13.0	6,800		Sept. 1, 1952	11.66	6,040
	Aug. 4, 1948	22.9	19,800	1953	Nov. 20, 1952	16.23	9,800
1949	Oct. 6, 1948	12.51	6,500		Mar. 26, 1953	16.12	9,700
	Nov. 29, 1948	14.32	7,580	1954	Mar. 2, 1954	16.24	9,800
	Dec. 4, 1948	26.78	28,800				
	Dec. 31, 1948	18.27	10,700	1955	Dec. 15, 1954	14.00	7,750
	Jan. 6, 1949	14.50	7,710		Mar. 7, 1955	15.18	8,810
	Jan. 22, 1949	13.35	7,040		Aug. 13, 1955	11.67	6,020
	Mar. 23, 1949	19.25	11,900		Aug. 19, 1955	29.00	34,800
	Aug. 15, 1949	21.70	17,200	1956	July 21, 1956	8.95	4,400
	Aug. 29, 1949	12.04	6,200				
1950	May 18, 1950	11.95	6,200	1957	Apr. 6, 1957	14.15	7,930
	Sept. 14, 1950	15.02	8,060				
1951	Dec. 5, 1950	21.55	17,000	1958	Mar. 31, 1958	13.91	7,670
	Dec. 8, 1950	14.68	7,850				
	Feb. 8, 1951	14.02	7,520	1959	June 3, 1959	15.78	9,900

341. James River at Columbia, Va.

Location--Lat 37°45'00", long 78°09'40", on highway bridge just downstream from mouth of Rivanna River, at Columbia, Fluvanna County, and at mile 161.8.

Drainage area--5,744 sq mi.

Gage--Nonrecording. July 1, 1904, to December 1931, at datum 0.2 ft lower. Datum of gage is 173.04 ft above mean sea level, datum of 1929.

Flood stage--18 ft.

Remarks--Entire record taken from publications of the U. S. Weather Bureau. Only annual maximums are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1870	Sept. 30, 1870	39	-	1921	Jan. 15, 1921	17.7	-
1893	May 5, 1893	26.1	-	1922	Mar. 16, 1922	19.5	-
1904	Aug. 6, 1904	6.0	-	1923	Mar. 17, 1923	22.7	-
1905	July 14, 1905	21.3	-	1924	May 12, 1924	31.2	-
				1925	Oct. 1, 1924	31.0	-
1906	Jan. 4, 1905	20.1	-	1926	Jan. 20, 1926	18.3	-
1907	Oct. 21, 1906	31.5	-	1927	Dec. 28, 1926	20.6	-
1908	Feb. 17, 1908	26.1	-	1928	Aug. 12, 1928	25.9	-
1909	Apr. 15, 1909	21.3	-	1929	Mar. 1, 1929	23.0	-
1910	June 17, 1910	24.9	-	1930	Nov. 20, 1929	20.7	-
1911	Jan. 4, 1911	20.6	-	1931	Apr. 2, 3, 1931	11.7	-
1912	May 13, 1912	29.0	-		Aug. 24, 1931	11.7	-
1913	Mar. 29, 1913	30.0	-	1932	Mar. 7, 1932	21.0	-
1914	Jan. 4, 1914	17.0	-	1933	Oct. 18, 1932	27.3	-
1915	Jan. 9, 1915	25.3	-	1934	Mar. 5, 1934	19.9	-
	Feb. 4, 1915	25.3	-	1935	Sept. 6, 1935	35.4	-
1916	Oct. 2, 1915	21.9	-	1936	Mar. 19, 1936	35.8	-
1917	Mar. 6, 1917	24.6	-	1937	Apr. 26, 1937	34.4	-
1918	Mar. 15, 1918	21.4	-	1938	Oct. 20, 1937	30.9	-
1919	Jan. 3, 1919	28.9	-	1939	Aug. 20, 1939	21.0	-
1920	Aug. 21, 1920	25.9	-	1940	Aug. 17, 1940	35.4	-

Peak stages and discharges of James River at Columbia, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 6, 1941	17.2	-	1951	Dec. 9, 1950	24.6	-
1942	May 23, 1942	26.8	-	1952	Mar. 12, 1952	22.9	-
1943	Oct. 16, 1942	35.2	-	1953	Mar. 26, 1953	26.3	-
1944	Sept. 19, 1944	37.4	-	1954	Mar. 3, 1954	23.7	-
1945	Sept. 19, 1945	24.5	-	1955	Aug. 19, 1955	30.4	-
1946	Jan. 9, 1946	18.9	-	1956	Apr. 18, 1956	12.2	-
1947	Mar. 16, 1947	17.0	-	1957	Apr. 7, 1957	24.7	-
1948	Apr. 2, 1948	27.6	-	1958	Apr. 1, 1958	20.4	-
1949	Dec. 5, 1948	33.5	-	1959	June 3, 1959	16.8	-
1950	Sept. 11, 1950	25.2	-				

342. Willis River at Curdsville, Va.

Location.--Lat 37°25'44", long 78°27'35", at bridge on U. S. Highway 15, 1 mile north of Curdsville and 8 miles south of Sprouses Corner, Buckingham County.

Drainage area.--42.3 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 335 ft (from topographic map).

Stage-discharge relation.--Not defined.

Bankfull stage.--6 ft.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept. 10, 1950	5.06	-	1955	Aug. 18, 1955	9.67	-
1951	Mar. 20, 1951	4.9	-	1956	Feb. 7, 1956	6.15	-
1952	Dec. 23, 1951	7.1	-	1957	Apr. 11, 1957	5.63	-
1953	Nov. 20, 1952	7.45	-	1958	May 8, 1958	6.02	-
1954	May 22, 1954	6.28	-	1959	Dec. 30, 1958	6.43	-

343. Little Willis River at Curdsville, Va.

Location.--Lat 37°24'38", long 78°27'35", at bridge on U. S. Highway 15, half a mile south of Curdsville and 2 miles north of Sheppards, Buckingham County.

Drainage area.--7.07 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 38 cfs and extended above on basis of slope-area measurement at 337 cfs, and contracted-opening measurement at 563 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 20, 1951	5.42	420	1956	Feb. 7, 1956	3.64	150
1952	Dec. 23, 1951	5.50	430	1957	Apr. 11, 1957	5.3	390
1953	Nov. 20, 1952	5.69	450	1958	May 8, 1958	4.7	305
1954	May 22, 1954	5.54	430	1959	Sept. 30, 1959	4.63	300
1955	Aug. 18, 1955	6.28	563				

JAMES RIVER BASIN

345. Willis River at Flanagan Mills, Va.

Location.--Lat 37°40'00", long 78°10'00", on left bank 15 ft upstream from highway bridge, 0.4 mile east of Flanagan Mills, Cumberland County, 7.7 miles downstream from Reynolds Creek, and 6.9 miles upstream from mouth.

Drainage area.--247 sq mi.

Gage.--Nonrecording prior to Jan. 3, 1935, at site a quarter of a mile upstream at same datum. Recording since Sept. 22, 1936. Datum of gage is 178.98 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 5,800 cfs and extended above on the basis of velocity-area studies, with backwater correction.

Bankfull stage.--16 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to October 1936. Base for partial-duration series, 1,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Dec. 28, 1926	13.0	1,600	1946	Dec. 28, 1945	13.02	1,720
1928	Aug. 13, 1928	21.0	7,350				
1929	Mar. 1, 1929	13.8	1,790	1947	Mar. 16, 1947	12.94	1,690
1930	Feb. 5, 1930	13.1	1,620				
				1948	Feb. 16, 1948	15.82	3,380
1931	May 23, 1931	13.50	1,760		Apr. 3, 1948	16.24	3,720
1932	Mar. 8, 1932	14.90	2,310		Apr. 9, 1948	14.84	2,580
1933	Oct. 19, 1932	14.4	2,000		Aug. 6, 1948	18.70	5,840
1934	Mar. 6, 1934	14.3	2,000				
1935	Sept. 6, 1935	-	8,000	1949	Dec. 1, 1948	14.40	2,320
					Dec. 5, 1948	a27.59	6,800
1936	Mar. 19, 1936	a20.44	5,300		Jan. 1, 1949	13.88	2,050
					July 16, 1949	13.98	2,100
1937	Jan. 5, 1937	14.31	2,420				
	Jan. 21, 1937	13.98	2,260	1950	Nov. 3, 1949	12.91	1,690
	Apr. 27, 1937	23.86	9,580				
	July 22, 1937	14.97	2,890	1951	Mar. 20, 1951	9.97	1,040
	Sept. 1, 1937	14.55	2,610				
1938	Oct. 21, 1937	14.67	2,680	1952	Dec. 23, 1951	16.05	3,550
	June 23, 1938	13.72	2,120		Jan. 30, 1952	13.87	2,050
					Mar. 26, 1952	13.80	2,000
1939	Feb. 13, 1939	13.84	2,160	1953	Nov. 20, 1952	14.54	2,380
1940	Feb. 13, 1940	14.08	2,310	1954	May 22, 1954	14.45	2,320
	Feb. 21, 1940	13.57	2,080				
	Apr. 10, 1940	14.00	2,260	1955	Mar. 8, 1955	13.73	2,000
	Aug. 17, 1940	a21.94	7,380		Aug. 19, 1955	21.35	8,100
1941	Apr. 7, 1941	13.55	2,080	1956	Feb. 7, 1956	9.41	920
1942	Aug. 10, 1942	14.85	2,800	1957	Apr. 11, 1957	11.32	1,320
1943	Oct. 17, 1942	a16.66	2,510	1958	May 8, 1958	13.34	1,810
	Feb. 7, 1943	14.51	2,380	1959	Dec. 31, 1958	14.22	2,200
1944	Sept. 20, 1944	a21.8	7,500				
1945	Sept. 30, 1945	15.67	3,300				

a Affected by backwater from James River.

350. James River at Cartersville, Va.

Location.--Lat 37°40', long 78°05', on left bank 200 ft downstream from bridge on State Highway 45 at Cartersville, Cumberland County, 2 miles downstream from Willis River, and at mile 152.4.

Drainage area.--6,242 sq mi.

Gage.--Nonrecording prior to June 4, 1927; recording thereafter. Datum of gage is 161.57 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--16 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1927. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a30.4	-	1934	Mar. 5, 1934	15.93	49,000
1899	Mar. 6, 1899	25.2	111,000	1934	Mar. 30, 1934	14.63	43,000
1900	Mar. 2, 1900	16.0	49,200	1934	Sept. 17, 1934	15.51	47,200
1901	May 23, 1901	27.0	134,000	1935	Dec. 2, 1934	24.95	104,000
1902	Dec. 30, 1901	26.7	130,000	1935	Jan. 24, 1935	24.03	96,000
1903	June 7, 1903	22.0	82,800	1935	Mar. 13, 1935	14.95	45,300
1904	Mar. 8, 1904	14.0	40,200	1935	Apr. 2, 1935	17.94	59,500
1905	July 14, 1905	17.0	54,200	1935	Apr. 9, 1935	17.36	57,000
1906	Jan. 4, 1906	17.1	54,700	1936	Sept. 6, 1935	27.80	134,000
1907	Oct. 21, 1906	23.8	97,200	1936	Jan. 4, 1936	21.45	77,900
1908	Feb. 17, 1908	19.8	69,100	1936	Jan. 10, 1936	14.44	42,400
1909	Apr. 16, 1909	15.8	48,200	1936	Jan. 20, 1936	21.80	80,300
1910	June 17, 1910	20.3	72,000	1936	Feb. 16, 1936	18.43	62,000
1911	Jan. 4, 1911	16.3	50,700	1936	Mar. 19, 1936	28.77	166,000
1912	May 13, 1912	22.5	86,400	1937	Jan. 4, 1937	19.13	65,500
1913	Mar. 29, 1913	23.4	93,600	1937	Jan. 10, 1937	20.25	71,100
1914	Nov. 10, 1913	13.6	39,000	1937	Feb. 23, 1937	14.0	40,600
1915	Feb. 4, 1915	20.6	69,300	1937	Apr. 26, 1937	27.73	133,000
1916	Oct. 2, 1915	18.4	59,000	1938	Oct. 21, 1937	24.34	98,400
1917	Mar. 6, 1917	19.9	66,300	1938	Oct. 29, 1937	16.95	55,000
1918	Apr. 22, 1918	17.0	52,800	1938	July 25, 1938	14.97	45,300
1919	Jan. 4, 1919	23.0	82,900	1939	Feb. 1, 1939	15.40	47,200
1920	Feb. 4, 1920	20.2	67,300	1939	Feb. 5, 1939	15.00	45,300
1921	Dec. 1, 1920	14.7	43,300	1939	Feb. 12, 1939	15.15	46,200
1922	Mar. 16, 1922	15.5	46,600	1939	Aug. 20, 1939	19.12	65,500
1923	Mar. 17, 1923	18.5	60,200	1940	Apr. 9, 1940	15.80	48,200
1924	May 13, 1924	24.7	106,000	1940	Apr. 22, 1940	14.50	42,300
1925	Oct. 1, 1924	24.38	103,000	1940	June 1, 1940	17.04	54,200
1926	Jan. 20, 1926	15.25	45,300	1940	Aug. 17, 1940	28.34	145,000
1927	Dec. 28, 1926	16.20	49,800	1941	Apr. 6, 1941	13.83	39,700
1928	Apr. 28, 1928	15.97	48,900	1942	May 18, 1942	18.77	63,000
1928	Aug. 12, 1928	22.06	78,600	1942	May 24, 1942	20.87	75,000
1928	Aug. 18, 1928	23.80	97,200	1942	Aug. 15, 1942	15.12	45,000
1928	Sept. 7, 1928	17.52	55,600	1943	Oct. 16, 1942	27.14	135,000
1929	Mar. 1, 1929	-	55,000	1943	Dec. 31, 1942	18.93	64,700
1929	Mar. 7, 1929	15.14	44,800	1943	Mar. 15, 1943	14.54	42,300
1929	Apr. 17, 1929	17.66	56,600	1943	Apr. 21, 1943	14.74	43,200
1930	Nov. 20, 1929	15.82	48,000	1944	Sept. 20, 1944	29.67	180,000
1930	Mar. 8, 1930	15.45	46,200	1945	Sept. 19, 1945	19.5	67,400
1931	Aug. 23, 1931	11.14	28,400	1946	Jan. 9, 1946	14.8	43,700
1932	Feb. 6, 1932	14.30	42,100	1947	Mar. 16, 1947	13.68	38,900
1932	Mar. 7, 1932	17.13	54,800	1948	Feb. 15, 1948	19.97	69,600
1933	Oct. 18, 1932	21.54	75,400	1948	Apr. 2, 1948	22.14	85,500
1933	Dec. 29, 1932	16.70	52,800	1948	Aug. 5, 1948	20.35	72,600
1933	Mar. 22, 1933	14.95	44,800				
1933	Apr. 18, 1933	20.48	70,600				

a From profile by Corps of Engineers.

Peak stages and discharges of James River at Cartersville, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1949	Nov. 30, 1948	17.90	58,700	1952	Sept. 1, 1952	14.18	41,000	
	Dec. 5, 1948	27.00	134,000		1953	Feb. 23, 1953	18.52	62,000
	Dec. 31, 1948	16.13	49,700	Mar. 26, 1953		20.90	75,600	
	Jan. 6, 1949	16.20	50,200	1954		Mar. 3, 1954	18.75	63,600
	Mar. 24, 1949	21.98	82,800			1955	Oct. 16, 1954	15.73	47,900
	Apr. 16, 1949	19.16	65,800	Dec. 31, 1954	15.90		48,700	
Aug. 15, 1949	17.10	54,700	Feb. 9, 1955	14.29	41,400			
1950	Feb. 4, 1950	15.48	46,800	Mar. 8, 1955	20.83	75,200		
	Sept. 11, 1950	19.73	68,600	Aug. 19, 1955	24.48	104,000		
1951	Dec. 5, 1950	17.58	57,200	1956	Mar. 16, 1956	9.93	23,800	
	Dec. 9, 1950	19.42	66,900		1957	Apr. 7, 1957	19.47	67,400
	Apr. 1, 1951	14.07	40,600	1958		Apr. 1, 1958	16.46	51,700
	June 15, 1951	16.94	53,700		May 8, 1958	14.92	44,100	
1952	Dec. 22, 1951	18.16	60,500	1959	June 3, 1959	14.47	42,300	
	Jan. 29, 1952	16.92	53,700					
	Feb. 5, 1952	16.20	50,200					
	Mar. 12, 1952	18.08	59,800					
	Apr. 28, 1952	14.60	42,800					

358. James River at State Farm, Va.

Location.--Lat 37°38'15", long 77°50'00", at old ferry crossing at State Farm, Goochland County, and at mile 132.

Drainage area.--Not determined.

Gage.--Nonrecording. Datum of gage is 131.22 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Not defined.

Bankfull stage.--13 ft.

Remarks.--Entire record taken from unpublished data collected by U. S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 19, 1936	25.2	-	1945	Sept. 19, 1945	15.8	-
1938	Aug. 4, 1938	8.5	-	1946	May 5, 1946	11.5	-
1939	Aug. 20, 1939	15.6	-	1947	Jan. 22, 1947	11.0	-
1940	Aug. 17, 1940	25.6	-	1948	Apr. 2, 1948	18.0	-
				1949	Dec. 5, 1948	25.0	-
1941	Apr. 6, 1941	11.4	-	1950	Sept. 12, 1950	15.7	-
1942	May 24, 1942	16.7	-				
1943	Oct. 17, 1942	23.3	-	1954	Mar. 3, 1954	14.5	-
1944	Sept. 20, 1944	26.4	-	1955	Mar. 8, 1955	17.5	-

365. Fine Creek at Fine Creek Mills, Va.

Location.--Lat 37°35'52", long 77°49'12", on right bank 75 ft downstream from highway bridge at Fine Creek Mills, Powhatan County, 0.8 mile upstream from mouth, and 6.7 miles northeast of Powhatan.

Drainage area.--23 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 28, 1953, at site 75 ft upstream at same datum. Recording thereafter. Crest-stage gage installed July 26, 1950. Altitude of gage is 160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above by logarithmic plotting.

Bankfull stage.--3 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Sept. 18, 1945	4.0	550	1953	Jan. 25, 1953	3.25	253
1946	May 5, 1946	3.33	370	1954	June 15, 1954	3.16	266
1947	Apr. 17, 1947	3.54	224				
1948	Aug. 4, 1948	7.0	1,650	1955	Aug. 13, 1955	3.47	364
1949	July 17, 1949	3.80	440		Aug. 18, 1955	6.98	2,010
1950	Sept. 13, 1950	4.60	718	1956	Oct. 15, 1955	2.71	138
1951	Feb. 7, 1951	3.09	201	1957	Apr. 9, 1957	2.84	150
	Feb. 17, 1951	3.10	204				
1952	Dec. 21, 1951	6.4	1,410	1958	May 7, 1958	3.44	302
	Jan. 29, 1952	3.50	338		Aug. 26, 1958	3.15	219
	Mar. 25, 1952	3.50	338	1959	Dec. 29, 1958	4.84	1,000
1953	Nov. 21, 1952	3.23	253		July 31, 1959	3.00	220

375. James River near Richmond, Va.

Location.--Lat 37°33'47", long 77°32'50", on left bank 0.1 mile upstream from Huguenot Memorial Bridge, 1.7 miles downstream from Boshier Dam, 0.5 mile west of city limits of Richmond, Henrico County, 3.3 miles upstream from Powhite Creek, and at mile 111.7.

Drainage area.--6,757 sq mi.

Gage.--Recording. Datum of gage is 98.82 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 152,000 cfs and extended above.

Bankfull stage.--11 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Records below 120,000 cfs do not include the flow of the James River & Kanawha Canal. Base for partial-duration series, 50,000 cfs.

Peak stages and discharges of James River near Richmond, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Dec. 3, 1934	19.08	109,000	1948	Feb. 16, 1948	15.45	66,000
	Jan. 25, 1935	18.55	102,000		Apr. 2, 1948	16.45	75,000
	Apr. 3, 1935	-	62,000		Aug. 6, 1948	15.50	66,800
	Sept. 7, 1935	21.01	127,000	1949	Dec. 1, 1948	14.30	57,100
1936	Jan. 5, 1936	16.73	78,300		Dec. 5, 1948	20.90	136,000
	Jan. 21, 1936	16.70	78,300		Mar. 24, 1949	16.22	73,000
	Feb. 17, 1936	14.68	60,300		Apr. 16, 1949	14.67	60,300
	Mar. 19, 1936	23.42	175,000		Aug. 16, 1949	13.38	50,100
1937	Jan. 4, 1937	15.25	64,400	1950	Sept. 12, 1950	14.60	59,500
	Jan. 22, 1937	15.95	71,100		1951	Dec. 6, 1950	13.76	53,200
	Apr. 27, 1937	22.65	148,000	Dec. 10, 1950		14.85	61,100
1938	Oct. 21, 1937	18.20	92,500	June 15, 1951		13.53	50,900
	Oct. 30, 1937	13.54	50,900	1952	Dec. 22, 1951	14.53	58,700
1939	Aug. 20, 1939	14.37	57,900		Jan. 30, 1952	13.82	53,200
	Aug. 18, 1940	13.50	50,900		Mar. 13, 1952	14.22	56,300
1940	June 2, 1940	13.50	50,900	1953	Feb. 24, 1953	14.45	57,900
	Aug. 18, 1940	21.80	151,000		Mar. 27, 1953	15.95	71,100
1941	Apr. 6, 1941	11.93	39,100	1954	Mar. 3, 1954	14.54	58,700
1942	May 18, 1942	14.40	57,900		1955	Mar. 8, 1955	16.10	72,000
	May 24, 1942	15.74	68,600	Aug. 20, 1955		16.36	98,700
1943	Oct. 17, 1942	19.80	119,000	1956	Mar. 17, 1956	9.32	22,600
	Dec. 31, 1942	-	67,000		1957	Apr. 8, 1957	15.00	62,700
1944	Sept. 20, 1944	21.80	150,000	1958		Apr. 2, 1958	13.35	50,100
1945	Sept. 20, 1945	14.82	61,100		1959	June 4, 1959	12.05	39,800
1946	Jan. 9, 1946	12.20	41,300				
1947	Mar. 17, 1947	11.65	37,000				

377. James River at Richmond, Va.

Location.--Lat 37°31'55", long 77°26'05", at foot of Virginia Street, just east of Southern Railway bridge, in city of Richmond, and at mile 104.6.

Drainage area.--Not determined.

Gage.--Nonrecording. Prior to 1930, at site 0.9 mile upstream at datum 2.00 ft higher; 1930 to 1938 at datum 2.17 ft higher; 1939 to Sept. 30, 1957, at datum 2.36 ft higher. Datum of gage is at mean sea level, datum of 1929.

Flood stage.--8 ft.

Remarks.--Records since October 1892 taken from publications of the U. S. Weather Bureau. Major channel improvements made downstream in 1934. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1771	May 27, 1771	a29.0	-	1901	May 24, 1901	19.3	-
				1902	Dec. 31, 1901	23.2	-
1871	Oct. 1, 1870	a26.3	-	1903	June 8, 1903	14.7	-
				1904	Mar. 8, 1904	5.5	-
1878	Nov. 26, 1877	a28.4	-	1905	July 15, 1905	9.9	-
				1886	Apr. 2, 1886	a23.3	-	1906	Jan. 5, 1906	10.1	-
1907	Oct. 22, 1906	18.7	-				
1889	June 2, 1889	a24.3	-	1908	Feb. 17, 1908	13.9	-
				1909	Apr. 16, 1909	10.0	-
1893	May 6, 1893	15.0	-	1910	June 18, 1910	14.1	-
1894	Oct. 24, 1893	12.4	-	1911	Jan. 5, 1911	9.6	-
1895	Jan. 12, 1895	16.0	-		Mar. 17, 1912	17.8	-
1897	Feb. 24, 1897	15.0	-	1913	Mar. 30, 1913	17.5	-
1898	May 9, 1898	16.2	-	1914	Jan. 5, 1914	6.2	-
1899	Feb. 18, 1899	22.0	-	1915	Feb. 4, 1915	14.3	-
1900	Mar. 2, 1900	11.4	-				

a From reports by Corps of Engineers.

Peak stages and discharges of James River at Richmond, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Oct. 3, 1915	10.3	-	1938	Oct. 21, 1937	18.6	-
1917	Mar. 6, 1917	14.1	-	1939	Aug. 20, 1939	9.6	-
1918	Apr. 22, 1918	12.2	-	1940	Aug. 18, 1940	23.3	-
1919	Jan. 5, 1919	17.2	-				
1920	Feb. 5, 1920	15.7	-	1941	Apr. 6, 1941	5.4	-
				1942	May 24, 1942	12.4	-
1921	Dec. 2, 1920	9.7	-	1943	Oct. 17, 1942	19.5	-
1922	Mar. 16, 1922	8.8	-	1944	Sept. 21, 1944	22.4	-
1923	Mar. 18, 1923	12.1	-	1945	Sept. 20, 1945	10.7	-
1924	May 14, 1924	20.1	-				
1925	Oct. 2, 1924	19.4	-	1946	Jan. 10, 1946	6.5	-
				1947	Mar. 17, 1947	5.9	-
1926	Jan. 21, 1926	8.4	-	1948	Apr. 2, 1948	13.3	-
1927	Dec. 28, 1926	10.6	-	1949	Dec. 6, 1948	21.6	-
1928	Aug. 18, 1928	17.0	-	1950	Sept. 12, 1950	9.6	-
1929	Mar. 1, 1929	11.8	-				
1930	Mar. 9, 1930	8.1	-	1951	Dec. 10, 1950	10.8	-
				1952	Mar. 14, 1952	9.7	-
1931	Aug. 24, 1931	3.8	-	1953	Mar. 27, 1953	12.0	-
1932	Mar. 6, 1932	9.6	-	1954	Mar. 3, 1954	9.4	-
1933	Oct. 19, 1932	14.2	-	1955	Aug. 20, 1955	16.9	-
1934	Mar. 6, 1934	9.8	-				
1935	Sept. 7, 1935	23.6	-	1956	Sept. 27, 1956	4.4	-
				1957	Apr. 8, 1957	10.7	-
1936	Mar. 20, 1936	26.5	-	1958	Apr. 2, 1958	8.3	-
1937	Apr. 27, 1937	25.2	-	1959	June 4, 1959	7.9	-

378. Falling Creek near Midlothian, Va.

Location.--Lat 37°27'15", long 77°35'20", at bridge on highway 653, 3.5 miles south of U. S. Highway 60, and 4 miles southeast of Midlothian, Chesterfield County.

Drainage area.--18.1 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs and extended above on basis of contracted-opening measurements at 943 cfs and 1,450 cfs.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 20, 1951	-	(a)	1956	Oct. 1, 1955	3.96	235
1952	Mar. 24, 1952	5.93	500	1957	Feb. 26, 1957	5.44	420
1953	Nov. 21, 1952	4.67	315	1958	Aug. 4, 1958	5.21	385
1954	May 21, 1954	4.63	310	1959	Aug. 8, 1959	6.95	780
1955	Aug. 19, 1955	7.50	943				

a Peak stage below gage, discharge less than 130 cfs.

380. Falling Creek near Chesterfield, Va.

Location.--Lat 37°26'37", long 77°31'21", on left bank at upstream side of bridge on State Highway 651, 0.8 mile downstream from Licking Creek, 2.8 miles from Pocoshock, and 4.7 miles northwest of Chesterfield, Chesterfield County.

Drainage area.--32.8 sq mi.

Gage.--Recording. Altitude of gage is 130 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 18, 1955	-	2,000	1958	Apr. 11, 1958	7.31	376
1956	June 2, 1956	7.04	356		May 7, 1958	7.08	352
					Aug. 4, 1958	10.07	855
1957	Feb. 26, 1957	8.42	503	1959	Dec. 29, 1958	9.92	815
1958	Dec. 21, 1957	8.98	635		July 14, 1959	7.93	460
	Jan. 25, 1958	7.57	415		Aug. 8, 1959	8.97	635

385. Falling Creek near Drewrys Bluff, Va.

Location.--Lat 37°27'40", long 77°28'00", on left bank 300 ft downstream from Chesterfield County Reservoir, 2.4 miles northeast of Drewrys Bluff, Chesterfield County, 2.7 miles downstream from Pocoshock Creek, and 3.7 miles upstream from mouth.

Drainage area.--54 sq mi, approximately.

Gage.--Recording. Prior to Oct. 1, 1952, at site 300 ft upstream at datum 5.39 ft higher. Altitude of gage is 60 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements prior to Oct. 1, 1952. Defined by current-meter measurements below 1,450 cfs and extended to 4,700 cfs on basis of slope-area and contracted-opening measurements.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Oct. 26, 1942	4.30	575	1953	Nov. 21, 1952	5.30	1,020
1944	Apr. 12, 1944	4.06	520	Jan. 24, 1953	5.23	964	
	Aug. 7, 1944	4.68	745	Apr. 13, 1953	4.74	624	
1945	July 18, 1945	10.1	7,270	1954	Apr. 26, 1954	4.63	558
	Sept. 18, 1945	5.09	940	May 21, 1954	5.19	932	
1946	Dec. 29, 1945	4.24	555	1955	Aug. 13, 1955	8.22	3,100
	July 23, 1946	5.09	940	Aug. 18, 1955	10.12	4,700	
1947	Sept. 25, 1947	4.80	790	Sept. 20, 1955	5.00	860	
	1948	Jan. 13, 1948	4.28	575	1956	Oct. 1, 1955	4.70	700
Feb. 14, 1948		4.72	745	June 2, 1956	4.57	624	
1949	Aug. 16, 1949	4.60	700	1957	February 1957	-	700
1950	Nov. 2, 1949	5.91	1,420	1958	Oct. 6, 1957	4.62	644
				Dec. 9, 1957	4.54	588	
1951	Mar. 20, 1951	3.27	249	Dec. 21, 1957	5.62	1,300	
				Jan. 25, 1958	4.72	714	
1952	Jan. 29, 1952	4.90	840	1959	Dec. 29, 1958	5.95	1,530
	Mar. 24, 1952	5.28	1,040	Apr. 13, 1959	4.46	532	
	Apr. 26, 1952	4.88	840	July 14, 1959	4.87	819	
				Aug. 8, 1959	5.25	1,070	

388. Appomattox River near Appomattox, Va.
(Published as North Branch Appomattox River prior to 1961)

Location.--Lat 37°22'55", long 78°47'24", at bridge on State Highway 24, half a mile north of Appomattox battlefield and 3 miles northeast of Appomattox, Appomattox County.

Drainage area.--5.79 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 650 ft (from topographic map).

Stage-discharge relation.--Defined by field estimates at very low stages and slope-area measurement at 535 cfs.

Bankfull stage.--4.8 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 17, 1955	5.42	535	1957	Apr. 5, 1957	4.55	310
1956	Apr. 15, 1956	4.21	240	1958	Nov. 19, 1957	5.47	545
				1959	Sept.30, 1959	5.84	670

390. Buffalo Creek near Hampden Sydney, Va.

Location.--Lat 37°15'25", long 78°29'10", on left bank 20 ft downstream from bridge on State Highway 626, 0.8 mile upstream from Locket Creek, 2 miles northwest of Hampden Sydney, Prince Edward County, and 6 miles southwest of Farmville.

Drainage area.--70 sq mi, approximately.

Gage.--Nonrecording prior to Aug. 19, 1953; recording thereafter. Crest-stage gage installed Oct. 17, 1952. Altitude of gage is 340 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above.

Bankfull stage.--5 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a15	-	1955	Dec. 15, 1954	6.19	1,050
1947	Apr. 17, 1947	5.90	730	1955	Mar. 6, 1955	5.58	515
1948	Feb. 14, 1948	7.10	2,640	1955	Apr. 15, 1955	6.30	1,200
1949	Dec. 4, 1948	7.00	2,440	1955	Aug. 15, 1955	6.03	856
1950	Mar. 23, 1950	6.60	1,660	1955	Aug. 18, 1955	9.00	6,440
1951	Dec. 5, 1950	5.47	452	1956	Feb. 7, 1956	5.79	643
1952	Dec. 21, 1951	7.53	3,540	1957	Apr. 9, 1957	6.17	1,020
	Jan. 28, 1952	6.52	1,500	1957	June 6, 1957	5.83	674
	Mar. 25, 1952	6.52	1,500	1957	June 8, 1957	5.69	574
	July 31, 1952	6.13	1,000	1958	Nov. 26, 1957	6.00	820
	Sept. 1, 1952	6.69	1,840	1958	Jan. 15, 1958	5.67	562
1953	Nov. 21, 1952	7.77	4,040	1958	Jan. 25, 1958	5.96	784
	Mar. 5, 1953	5.63	550	1958	Feb. 27, 1958	6.36	1,280
	Mar. 16, 1953	5.96	775	1958	May 7, 1958	6.23	1,100
1954	Jan. 23, 1954	6.57	1,580	1959	Dec. 29, 1958	7.00	2,440
	Mar. 1, 1954	6.40	1,340				

a From information by local resident.

395. Appomattox River at Farmville, Va.

Location.--Lat 37°18'25", long 78°23'20", on left bank 15 ft downstream from bridge on State Highway 45, 1,000 ft north of city limits of Farmville, Prince Edward County, and $1\frac{1}{4}$ miles downstream from Buffalo Creek.

Drainage area.--306 sq mi.

Gage.--Nonrecording prior to Nov. 29, 1928; recording thereafter. Datum of gage is 281.93 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1928. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	July 6, 1926	8.90	898	1941	Nov. 15, 1940	13.64	2,640
1927	Dec. 29, 1926	13.50	2,560				
1928	Aug. 12, 1928	21.10	13,900	1942	Aug. 9, 1942	15.72	4,570
1929	Apr. 17, 1929	16.46	5,530	1943	Feb. 7, 1943	15.08	3,940
1930	Feb. 5, 1930	13.80	2,800	1944	Sept. 20, 1944	21.0	13,700
1931	May 22, 1931	14.02	2,960	1945	Jan. 2, 1945	14.84	3,650
1932	Jan. 10, 1932	14.90	3,740		Sept. 19, 1945	20.90	13,500
	Mar. 7, 1932	16.36	5,400	1946	Dec. 26, 1945	14.86	3,740
	Mar. 29, 1932	15.00	3,840		May 5, 1946	14.88	3,740
1933	Oct. 18, 1932	17.33	6,650	1947	Mar. 15, 1947	14.57	3,470
	Nov. 2, 1932	14.95	3,840				
	Dec. 29, 1932	15.10	3,940	1948	Feb. 15, 1948	16.83	5,020
1934	Mar. 5, 1934	15.73	4,570		Apr. 2, 1948	17.02	5,400
	Sept. 8, 1934	14.92	3,740		Aug. 4, 1948	16.30	4,200
1935	Dec. 2, 1934	17.23	6,500	1949	Dec. 5, 1948	18.84	9,000
	Apr. 2, 1935	15.92	4,790	1950	Nov. 1, 1949	15.59	3,350
	Apr. 9, 1935	15.83	4,680				
	Sept. 6, 1935	19.88	11,300	1951	Dec. 5, 1950	12.68	1,790
1936	Jan. 4, 1936	17.39	6,800	1952	Dec. 23, 1951	17.96	7,400
	Jan. 20, 1936	17.69	7,270		Sept. 2, 1952	15.95	3,800
	Feb. 15, 1936	14.72	3,560	1953	Nov. 21, 1952	16.82	5,020
	Mar. 18, 1936	17.72	7,270	1954	Jan. 23, 1954	15.28	3,060
1937	Jan. 4, 1937	16.63	5,660				
	Jan. 20, 1937	15.05	3,840	1955	Aug. 19, 1955	19.76	11,000
	Apr. 26, 1937	20.28	12,100				
	July 21, 1937	15.00	3,840	1956	Feb. 7, 1956	11.15	1,400
1938	Oct. 20, 1937	16.33	5,270	1957	Apr. 10, 1957	13.67	2,100
	June 21, 1938	17.64	7,110	1958	Feb. 28, 1958	15.15	2,960
1939	Feb. 12, 1939	14.59	3,460	1959	Dec. 30, 1958	16.13	3,930
1940	Apr. 9, 1940	14.88	3,740				
	Aug. 15, 1940	23.60	21,000				

400. Appomattox River at Mattoax, Va.

Location.--Lat 37°25'17", long 77°51'33", on right bank 75 ft upstream from Southern Railway bridge at Mattoax, Amelia County, 0.3 mile upstream from Skinquarter Creek, and 3.7 miles upstream from Flat Creek.

Drainage area.--729 sq mi.

Gage.--Nonrecording prior to Oct. 20, 1936; recording thereafter. At same site at different datum, Aug. 26, 1900, to Dec. 31, 1905. Datum of gage is 174.51 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended above on basis of records for stations at Farmville and near Petersburg.

Bankfull stage.--19 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1936. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 25, 1901	25.3	13,400	1944	Sept. 23, 1944	25.3	10,300
1902	Feb. 28, 1902	24.2	12,000	1945	Sept. 22, 1945	25.3	10,300
1903	Mar. 25, 1903	22.5	10,600	1946	Dec. 30, 1945	20.00	4,730
1904	Sept. 16, 1904	15.5	6,120	1947	Mar. 18, 1947	19.34	4,300
1905	Feb. 25, 1905	13.4	5,020	1948	Feb. 18, 1948	23.10	7,420
1926	July 7, 1926	12.74	1,940	1948	Apr. 5, 1948	19.80	4,650
1927	Dec. 29, 1926	17.85	3,850	1949	Dec. 3, 1948	20.65	4,970
1928	Aug. 15, 1928	25.94	11,200	1949	Dec. 7, 1948	24.39	9,100
1929	Apr. 20, 1929	20.10	4,770	1949	Aug. 15, 1949	19.17	4,250
1930	Oct. 22, 1929	18.36	4,090	1950	Nov. 4, 1949	22.09	6,230
1931	May 25, 1931	16.75	3,450	1951	Mar. 22, 1951	14.81	2,590
1932	Mar. 10, 1932	22.50	6,700	1952	Dec. 24, 1951	23.2	7,540
1933	Apr. 20, 1933	20.88	5,090	1952	Jan. 30, 1952	20.08	4,700
1934	Mar. 8, 1934	23.40	7,800	1952	Mar. 28, 1952	21.22	5,360
1935	Dec. 4, 1934	23.66	8,190	1953	Nov. 24, 1952	21.70	5,800
1936	Mar. 20, 1936	25.27	10,300	1954	May 21, 1954	19.06	4,200
1937	Jan. 6, 1937	23.15	7,540	1955	Aug. 21, 1955	26.53	12,100
	Jan. 22, 1937	22.94	7,180	1956	Oct. 14, 1955	16.23	3,080
	Apr. 28, 1937	29.97	20,100	1957	Mar. 1, 1957	16.50	3,190
	July 23, 1937	20.55	5,000	1958	Mar. 3, 1958	18.82	4,070
1938	Oct. 24, 1937	21.63	5,480	1958	May 10, 1958	20.02	4,750
	June 24, 1938	24.21	8,840	1959	Jan. 2, 1959	22.26	6,460
	July 29, 1938	23.57	8,060				
1939	Mar. 4, 1939	18.02	3,930				
1940	Feb. 14, 1940	19.72	4,610				
	Aug. 18, 1940	35.3	35,000				
1941	Apr. 6, 1941	15.83	3,080				
1942	Aug. 12, 1942	17.29	3,650				
1943	Feb. 9, 1943	21.64	5,700				

405. Flat Creek near Amelia, Va.

Location.--Lat 37°23', long 78°03', at bridge on State Highway 681, half a mile downstream from Horsepen Creek and 6 miles northwest of Amelia, Amelia County.

Drainage area.--73 sq mi, approximately.

Gage.--Nonrecording. Crest-stage gage installed Jan. 7, 1954. Altitude of gage is 240 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Flat Creek near Amelia, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Sept. 26, 1947	6.9	1,090	1956	Oct. 15, 1955	8.33	2,180
				1957	Apr. 10, 1957	6.15	670
1954	May 21, 1954	7.96	1,900	1958	Aug. 26, 1958	8.47	2,280
1955	Aug. 18, 1955	9.13	3,200	1959	Dec. 30, 1958	8.63	2,400

410. Deep Creek near Mannboro, Va.

Location.--Lat 37°16'50", long 77°52'22", on left bank at upstream side of bridge on State Highway 38, 0.9 mile upstream from Sweathouse Creek, 3.4 miles northwest of Mannboro, Amelia County, and 7.5 miles southeast of Amelia.

Drainage area.--156 sq mi.

Gage.--Nonrecording prior to Sept. 2, 1949; recording thereafter. Datum of gage is 177.20 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 3,100 cfs and extended above by logarithmic plotting.

Bankfull stage.--7 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to October 1949. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	14.8	10,000	1955	Aug. 19, 1955	10.35	3,720
1947	Sept. 25, 1947	13.1	7,140	1956	Oct. 2, 1955	7.87	1,650
1948	Feb. 15, 1948	11.30	4,560		Oct. 15, 1955	12.64	7,020
1949	Dec. 31, 1948	8.0	1,300		Feb. 8, 1956	7.17	1,300
1950	Nov. 2, 1949	10.49	3,480	1957	Feb. 27, 1957	8.08	1,760
	Mar. 24, 1950	7.97	1,300		Apr. 10, 1957	7.73	1,550
	May 20, 1950	8.14	1,350		Sept. 18, 1957	8.77	2,240
1951	Mar. 21, 1951	7.04	900	1958	Nov. 26, 1957	8.47	2,010
1952	Dec. 22, 1951	9.78	2,590		Dec. 10, 1957	8.16	1,820
	Jan. 29, 1952	9.38	2,220		Dec. 21, 1957	8.64	2,080
	Mar. 25, 1952	9.37	2,220		Jan. 26, 1958	8.44	1,940
	Apr. 27, 1952	8.22	1,400		Feb. 28, 1958	8.23	1,820
	Sept. 2, 1952	7.78	1,210		Apr. 12, 1958	8.74	2,160
1953	Nov. 21, 1952	11.64	4,980		Apr. 24, 1958	6.96	1,220
	Jan. 25, 1953	7.77	1,210	1959	May 7, 1958	8.62	2,080
1954	May 22, 1954	7.98	1,300		Dec. 30, 1958	10.46	3,910
					Apr. 14, 1959	7.12	1,270

a From information by local resident.

415. Appomattox River near Petersburg, Va.

Location.--Lat 37°13'33", long 77°32'20", on right bank 2.2 miles upstream from dam of Virginia Electric and Power Co., 4.2 miles downstream from Wipponock Creek, and 5.9 miles west of corporate limits of city of Petersburg.

Drainage area.--1,335 sq mi.

Gage.--Recording. Prior to Sept. 22, 1931, at site 0.8 mile downstream at different datum. Altitude of gage is 118 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1927	Dec. 30, 1926	-	7,000	1942	Mar. 30, 1942	6.76	4,080	
1928	Apr. 30, 1928	9.53	8,710	1943	Feb. 8, 1943	9.17	7,080	
	Aug. 17, 1928	9.48	8,710		1944	Mar. 9, 1944	8.45	6,020
	Sept. 21, 1928	7.16	5,690	Mar. 15, 1944		7.70	5,140	
1929	Mar. 1, 1929	8.51	7,380	Mar. 25, 1944		8.20	5,760	
1930	Oct. 4, 1929	7.78	6,470	Apr. 14, 1944	8.25	5,760		
	Oct. 24, 1929	8.30	7,120	Sept. 25, 1944	9.32	7,220		
	Feb. 6, 1930	7.67	6,340	1945	Feb. 24, 1945	7.80	5,260	
1931	Apr. 8, 1931	6.79	5,170		May 28, 1945	10.16	8,570	
	Aug. 13, 1931	7.35	5,950		July 19, 1945	14.50	17,900	
1932	Jan. 11, 1932	9.30	6,690		Sept. 24, 1945	9.15	7,080	
	Mar. 8, 1932	10.40	8,890	1946	Jan. 1, 1946	9.23	7,220	
	Mar. 30, 1932	8.68	5,970		Feb. 12, 1946	7.70	5,140	
1933	Oct. 21, 1932	-	7,500		May 6, 1946	8.13	5,630	
	Nov. 4, 1932	8.00	5,250		May 15, 1946	8.23	5,890	
	Dec. 31, 1932	9.30	6,690	May 27, 1946	7.73	5,260		
1934	Jan. 28, 1933	8.67	5,970	1947	Jan. 22, 1947	7.62	5,020	
	Apr. 22, 1933	9.73	7,170		Mar. 16, 1947	8.50	6,150	
	June 1, 1933	9.43	6,810		Apr. 18, 1947	7.67	5,140	
	1934	Mar. 6, 1934	10.39		8,890	Sept. 27, 1947	9.75	7,950
		Dec. 7, 1934	9.52		6,930	1948	Nov. 13, 1947	7.63	5,140
Jan. 24, 1935	9.97	7,530	Jan. 15, 1948	8.02	5,500			
Mar. 14, 1935	8.28	5,490	Feb. 16, 1948	10.75	9,600			
Apr. 3, 1935	10.20	8,570	Apr. 3, 1948	7.63	5,020			
1935	June 9, 1935	7.93	5,120	Apr. 9, 1948	8.50	6,150		
	Sept. 6, 1935	11.12	10,200	1949	Dec. 10, 1948	9.63	7,650	
	1936	Jan. 9, 1936	11.75		11,000	Jan. 1, 1949	8.50	6,150
Jan. 21, 1936		11.57	10,600		May 12, 1949	7.73	5,140	
1937	Feb. 16, 1936	10.80	9,080		Aug. 16, 1949	9.49	7,500	
	Mar. 23, 1936	11.32	9,980	Aug. 29, 1949	7.48	5,260		
	Apr. 12, 1936	8.28	5,660	1950	Nov. 4, 1949	11.70	11,400	
	Jan. 8, 1937	9.22	6,760		Mar. 24, 1950	8.39	6,020	
Jan. 23, 1937	10.91	9,260	May 31, 1950		7.64	5,020		
Jan. 30, 1937	8.86	6,380	Sept. 10, 1950		7.72	5,140		
1938	Apr. 30, 1937	14.85	18,800	1951	Mar. 21, 1951	7.27	4,660	
	July 23, 1937	8.94	6,380		1952	Dec. 23, 1951	9.28	7,220
	Aug. 26, 1937	7.80	5,060			Jan. 30, 1952	9.52	7,500
	Sept. 2, 1937	9.00	6,500			Mar. 26, 1952	9.72	7,800
	1939	Oct. 25, 1937	9.10	6,630	Apr. 28, 1952	9.82	7,950	
		June 22, 1938	10.32	8,290	1953	Nov. 23, 1952	9.72	7,800
June 30, 1938		12.30	12,000	Jan. 25, 1953		8.28	5,890	
July 26, 1938		14.58	18,200	Mar. 16, 1953		7.55	5,020	
1939	Feb. 16, 1939	7.94	5,180	Apr. 14, 1953		8.02	5,500	
	Mar. 3, 1939	8.15	5,540	1954	Jan. 27, 1954	7.34	5,380	
	July 1, 1939	8.22	5,540		Apr. 19, 1954	7.62	5,020	
May 23, 1954	9.57	7,650	1955		Mar. 8, 1955	7.73	5,180	
1940	Feb. 11, 1940	9.38		7,360	Aug. 13, 1955	8.94	6,720	
	Apr. 22, 1940	8.93		6,660	Aug. 22, 1955	11.15	10,300	
	Aug. 20, 1940	18.15	28,000					
1941	Nov. 16, 1940	7.32	4,560					

Peak stages and discharges of Appomattox River near Petersburg, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Oct. 1, 1955	9.54	7,500	1958	Dec. 22, 1957	9.09	8,940
	Oct. 16, 1955	9.45	7,360		Jan. 27, 1958	8.65	6,280
	Feb. 7, 1956	8.11	5,630		Mar. 1, 1958	8.65	6,280
	June 3, 1956	8.68	6,410		Apr. 12, 1958	8.61	6,280
1957	Feb. 4, 1957	7.85	5,260	May 8, 1958	9.70	7,800	
	Mar. 1, 1957	8.28	5,890	May 26, 1958	7.90	5,380	
	Apr. 10, 1957	7.66	5,140	Aug. 27, 1958	7.78	5,260	
1958	Nov. 27, 1957	7.93	5,380	1959	Jan. 1, 1959	9.85	7,950
	Dec. 11, 1957	8.68	6,410		Apr. 14, 1959	7.58	5,020

420. Swift Creek near Chester, Va.

Location.--Lat 37°18'55", long 77°29'40", at Bradley Bridge, $1\frac{1}{4}$ miles downstream from Second Branch, 3 miles upstream from Frank Branch, and 4 miles southwest of Chester, Chesterfield County.

Drainage area.--143 sq mi.

Gage.--Nonrecording. Altitude of gage is 65 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a27	10,700	1946	May 27, 1946	11.5	1,740
				1947	Sept. 26, 1947	13.0	2,180
1944	Aug. 3, 1944	7.8	853	1948	Feb. 15, 1948	13.0	2,180
1945	July 18, 1945	29.0	13,200	1949	May 12, 1949	10.50	1,480

a From information by local resident.

422. Glebe Creek tributary near Charles City, Va.

Location.--Lat 37°22'05", long 77°04'15", at concrete-box culvert on State Highway 155, 2 miles north of Charles City, Charles City County, and $5\frac{1}{2}$ miles south of Providence Forge, Va.

Drainage area.--0.7 sq mi, approximately.

Gage.--Crest-stage gage. Datum of gage is 52.31 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1 cfs and extended on basis of contracted-opening measurements at 286 cfs and 555 cfs.

Bankfull stage.--2 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 26, 1948	4.64	555	1955	Aug. 13, 1955	4.20	286
1951	June 5, 1951	2.8	110	1956	July 29, 1956	2.18	19
1952	June 30, 1952	2.58	65	1957	Dec. 16, 1956	2.08	13
1953	Nov. 22, 1952	2.14	16	1958	May 25, 1958	2.68	85
1954	Jan. 28, 1954	1.76	4	1959	Dec. 29, 1958	2.18	19

JAMES RIVER BASIN

425. Chickahominy River near Providence Forge, Va.

Location.--Lat 37°26'10", long 77°03'40", on left bank 100 ft downstream from bridge on State Highway 618, 1.1 miles southwest of Providence Forge, New Kent County, and 1.7 miles downstream from Schiminoe Creek.

Drainage area.--249 sq mi.

Gage.--Recording. Datum of gage is 6.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 4, 1942	7.77	760	1953	Jan. 29, 1953	8.13	1,000
1943	Feb. 8, 1943	8.54	1,080	1954	Jan. 29, 1954	7.63	767
1944	Mar. 7, 1944	8.53	1,080	1955	Aug. 15, 1955	11.67	7,710
	Mar. 13, 1944	8.49	1,080		Aug. 21, 1955	10.18	3,560
1945	July 21, 1945	10.60	5,750		Sept. 25, 1955	8.09	1,000
	Aug. 1, 1945	8.43	1,050	1956	Oct. 20, 1955	8.38	1,180
1946	Dec. 31, 1945	9.02	1,620		Feb. 11, 1956	8.24	1,060
	July 26, 1946	-	1,000		July 27, 1956	8.15	1,060
1947	Apr. 21, 1947	8.24	940	1957	Nov. 4, 1956	9.04	1,700
1948	Feb. 19, 1948	8.16	1,060		Feb. 4, 1957	8.45	1,180
	Mar. 12, 1948	8.28	1,120		Mar. 3, 1957	8.95	1,700
	May 26, 1948	8.64	1,320	1958	Oct. 11, 1957	8.9C	1,590
	June 1, 1948	8.40	1,250		Dec. 11, 1957	8.9E	1,700
	Aug. 9, 1948	8.55	1,320		Dec. 25, 1957	9.1Z	1,820
1949	Dec. 4, 1948	8.65	1,320		Jan. 29, 1958	8.43	1,180
	June 30, 1949	8.65	1,320		Feb. 8, 1958	8.1Z	1,000
1950	Nov. 5, 1949	9.13	1,820		Mar. 1, 1958	8.24	1,060
1951	Mar. 26, 1951	7.03	575		Mar. 24, 1958	8.51	1,250
1952	Dec. 26, 1951	8.53	1,250		Apr. 12, 1958	8.41	1,180
	Jan. 30, 1952	8.80	1,490		May 8, 1958	8.8F	1,590
	Mar. 28, 1952	8.88	1,590		May 27, 1958	8.24	1,060
	May 1, 1952	8.93	1,590	1959	Dec. 31, 1958	8.8C	1,490
1953	Nov. 25, 1952	9.10	1,820		July 11, 1959	8.60	1,320
					July 17, 1959	8.4F	1,250
					July 22, 1959	8.44	1,180
					July 29, 1959	8.20	1,060
					Aug. 12, 1959	8.86	1,590

427. Collins Run near Providence Forge, Va.

Location.--Lat 37°23'59", long 77°02'54", at bridge on State Highway 155, 2½ miles south of Providence Forge, and 5 miles north of Charles City.

Drainage area.--2.84 sq mi.

Gage.--Crest-stage gage. Datum of gage is 32.73 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 10 cfs and extended above on basis of contracted-opening measurements at 1,350 cfs and 1,630 cfs.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 26, 1948	7.4	1,630	1955	Aug. 13, 1955	7.03	1,350
1951	Dec. 5, 1950	3.54	82	1956	July 29, 1956	3.74	96
1952	Jan. 28, 1952	4.37	160	1957	Aug. 19, 1957	4.47	170
1953	Nov. 22, 1952	4.18	135	1958	May 25, 1958	4.90	255
1954	Jan. 28, 1954	3.48	78	1959	Oct. 22, 1958	4.55	185

DISMAL SWAMP BASIN

430. Lake Drummond in Dismal Swamp, Va.

Location.--Lat 36°35'40", long 76°26'20", on left bank in outlet canal, in Norfolk County, 200 ft upstream from dam and gates, 0.5 mile downstream from Lake Drummond, 2.5 miles east of Nansemond County line, 3.1 miles north of North Carolina State line, and 20 miles southwest of Norfolk.

Drainage area.--Not determined.

Gage.--Nonrecording. Datum of gage is 12.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	June 7, 1926	4.50	-	1943	July 17, 18, 1943	5.75	-
1927	May 11, 1927	5.90	-	1944	Feb. 17, 18, 1944	5.35	-
1928	Dec. 9, 10, 1927	5.44	-	1945	Sept. 22, 23, 1945	5.60	-
1929	Mar. 7, 1929	4.35	-				
1930	Oct. 7, 1929	6.09	-	1946	Aug. 13, 1946	5.64	-
				1947	Jan. 17-21, 1947	5.70	-
1931	June 15, 16, 1931	5.45	-				
1932	June 15-19, 28, 1932	5.25	-	1948	June 2, 1948	5.66	-
1933	Mar. 19, 22, 28, Apr. 11, 12, May 3, Aug. 28, Sept. 9, 10, 15, 16, 1933	5.20	-	1949	Aug. 3, 1949	5.68	-
				1950	Nov. 11, 1949	5.21	-
1934	Mar. 19, 1934	5.33	-	1951	Feb. 24, 1951	5.50	-
1935	June 13, 1935	5.30	-	1952	Mar. 6, 1952	5.51	-
				1953	Feb. 25, May 26, June 13, 14, 1953	5.16	-
1936	Jan. 19, 23, 1936	5.30	-	1954	Jan. 28-30, 1954	5.40	-
1937	June 22, 1937	5.28	-	1955	Sept. 6, 1955	5.80	-
1938	July 28, 1938	5.49	-				
1939	Sept. 1, 2, 1939	5.97	-	1956	Apr. 14-16, 1956	5.50	-
1940	Feb. 15, 1940	5.39	-	1957	Feb. 9, 1957	6.20	-
				1958	May 12, 1958	6.16	-
1941	April 1, 1941	5.42	-	1959	Apr. 6, 1959	5.61	-
1942	May 15, 24, 1942	4.10	-				

435. Cypress Swamp at Cypress Chapel, Va.

Location.--Lat 36°37'30", long 76°36'10", on right bank 10 ft upstream from bridge on State Highway 32, 0.5 mile downstream from Dragon Swamp, 0.8 mile northwest of Cypress Chapel, Nansemond County, and 6.5 miles south of Suffolk.

Drainage area.--23 sq mi, approximately.

Gage.--Recording. Altitude of gage is 30 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--3 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a10.2	-	1957	Oct. 23, 1956	4.72	239
1954	Jan. 17, 1954	4.85	311		Dec. 16, 1956	4.46	208
	Jan. 23, 1954	5.87	552		Feb. 1, 1957	5.87	690
	Mar. 15, 1954	4.38	206		Feb. 10, 1957	4.53	261
1955					Mar. 1, 1957	4.62	281
	Aug. 19, 1955	4.46	237		Mar. 9, 1957	4.46	245
	Aug. 24, 1955	4.80	298	1958	Dec. 10, 1957	5.32	432
	Sept. 2, 1955	5.92	672		Jan. 15, 1958	4.48	205
Sept. 20, 1955	6.65	1,170	Jan. 25, 1958		4.98	334	
1956					Feb. 28, 1958	4.90	312
	Feb. 7, 1956	4.87	316	1959	May 7, 1958	6.37	1,190
	Mar. 17, 1956	5.17	392		Dec. 29, 1958	4.98	334
	Apr. 12, 1956	4.93	332	Apr. 13, 1959	4.72	340	
	Aug. 2, 1956	4.68	270	July 15, 1959	4.26	207	
Sept. 27, 1956	4.82	303	July 27, 1959	5.10	370		
1957	Oct. 18, 1956	5.41	436	Aug. 1, 1959	5.59	735	

a From information by local resident.

435.5. Folly Swamp near Sunbury, N. C.

Location.--Lat 36°29'20", long 76°34'30", at culvert on State Highway 32, 1.5 miles upstream from Dismal Swamp, and 4.0 miles north of Sunbury, Gates County.

Drainage area.--3.43 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 4 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Aug. 14, 1953	23.48	180	1956	May 6, 1956	23.4f	178
1954	January 1954	23.44	175	1957	Feb. 6, 1957	23.36	195
1955	Sept. 20, 1955	24.69	340	1958	May 7, 1958	23.52	180

440. Nottoway River near Burkeville, Va.

Location.--Lat 37°04'40", long 78°11'50", on left bank at downstream side of bridge on State Highway 723, $3\frac{3}{4}$ miles upstream from Modest Creek, 6 miles north of Victoria, and 8 miles south of Burkeville, Nottoway County.

Drainage area.--38 sq mi, approximately.

Gage.--Nonrecording prior to July 4, 1951; recording thereafter. Datum of gage is 354.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above by logarithmic plotting.

Bankfull stage.--8 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to October 1951. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a27.4	-	1955	Aug. 18, 1955	19.06	3,320
1947	Sept. 25, 1947	18.15	3,020	1956	Oct. 1, 1955	18.70	3,200
1948	Feb. 14, 1948	15.56	2,130		Oct. 14, 1955	16.57	2,460
1949	Nov. 29, 1948	13.4	1,510				
1950	Nov. 2, 1949	15.85	2,190	1957	Apr. 9, 1957	13.21	1,460
					Sept. 18, 1957	18.06	2,980
1951	Mar. 20, 1951	10.55	858				
				1958	Nov. 25, 1957	13.00	1,410
1952	Mar. 25, 1952	13.86	1,640		Jan. 25, 1958	14.15	1,730
	Apr. 28, 1952	15.17	2,010		Feb. 27, 1958	13.43	1,510
					Apr. 11, 1958	14.07	1,700
1953	Jan. 24, 1953	13.92	1,640		May 26, 1958	13.95	1,670
1954	Mar. 1, 1954	14.50	1,810	1959	Dec. 29, 1958	14.81	1,890
					July 15, 1959	13.17	1,460
1955	Apr. 14, 1955	15.25	2,020				

a From floodmark by Corps of Engineers.

445. Nottoway River near Rawlings, Va.

Location.--Lat 36°59'00", long 77°48'00", on right bank at downstream side of bridge on State Highway 612, at Harpers Bridge, 2.6 miles northwest of Rawlings, Brunswick County.

Drainage area.--323 sq mi.

Gage.--Recording. Altitude of gage is 174 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended above on basis of logarithmic plotting and records for downstream stations.

Bankfull stage.--10 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges of Nottoway River near Rawlings, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a20.8	19,000	1956	Oct. 2, 1955	12.82	6,580
1951	Mar. 21, 1951	5.97	1,690	1956	Oct. 15, 1955	12.51	6,340
1952	Dec. 22, 1951	9.80	4,240	1957	Feb. 28, 1957	7.67	2,740
	Jan. 29, 1952	9.48	4,020		Sept. 19, 1957	9.57	4,090
	Mar. 26, 1952	8.98	3,640	1958	Nov. 27, 1957	8.18	3,080
	Apr. 29, 1952	9.09	3,720		Dec. 10, 1957	8.00	2,940
1953	Nov. 21, 1952	12.14	6,020		Dec. 21, 1957	8.56	3,360
	Jan. 25, 1953	7.50	2,620		Jan. 26, 1958	8.19	3,080
1954	May 22, 1954	6.67	2,110	Feb. 28, 1958	8.72	3,430	
		1955	Apr. 16, 1955	7.37	2,550	Apr. 12, 1958	8.76	3,500
1955	Aug. 19, 1955	12.61	6,420	1959	Apr. 30, 1958	7.49	2,620
					May 7, 1958	11.21	5,300
					Dec. 31, 1958	9.42	3,940

a From information by local resident.

450. Nottoway River near McKenney, Va.

Location.--Lat 36°56'45", long 77°43'55", at bridge on U. S. Highway 1, 1½ miles upstream from Birch Creek, 3 miles south of McKenney, Dinwiddie County, and 10 miles north of Alberta.

Drainage area.--362 sq mi.

Gage.--Nonrecording. Datum of gage is 153.74 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended above by logarithmic plotting.

Bankfull stage.--11 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a32.1	20,000	1948	Feb. 15, 1948	16.80	5,390
1946	Dec. 29, 1945	-	3,500	1949	Nov. 30, 1948	14.60	3,920
1947	Sept. 26, 1947	16.02	4,840	1950	Nov. 3, 1949	15.70	4,640

a From floodmark by Corps of Engineers.

455. Nottoway River near Stony Creek, Va.

Location.--Lat 36°54'00", long 77°24'00", on left bank 15 ft downstream from bridge on U. S. Highway 301, 1.8 miles upstream from Island Swamp, 3.3 miles south of town of Stony Creek, Sussex County, and 4.4 miles upstream from Stony Creek.

Drainage area.--586 sq mi.

Gage.--Nonrecording prior to Oct. 11, 1934; recording thereafter. Datum of gage is 58.42 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of logarithmic plotting and records for stations on Appomattox River.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown prior to October 1934. Base for partial-duration series, 3,500 cfs.

CHOWAN RIVER BASIN

Peak stages and discharges of Nottoway River near Stony Creek, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 4, 1929	-	5,700	1946	Dec. 30, 1945	15.10	4,920
1931	Aug. 21, 1931	14.80	4,540	May 27, 1946	14.68	4,550	
1932	Mar. 7, 1932	15.66	5,540	1947	Sept. 28, 1947	14.23	4,140
1933	Oct. 20, 1932	12.92	3,140	1948	Feb. 17, 1948	15.90	5,780
1934	Mar. 7, 1934	15.38	5,180	1949	Nov. 30, 1948	14.00	4,000
1935	Jan. 24, 1935	14.44	3,820	June 30, 1949	15.18	5,020	
	Apr. 4, 1935	15.78	5,660	1950	Nov. 4, 1949	13.92	3,930
	Apr. 10, 1935	14.02	3,620	1951	Mar. 20, 1951	10.87	2,510
	Sept. 7, 1935	17.76	8,300	1952	Dec. 24, 1951	14.58	4,460
1936	Jan. 6, 1936	16.07	6,000	Jan. 11, 1952	14.15	4,140	
	Jan. 22, 1936	17.42	7,690	Jan. 30, 1952	16.03	5,900	
	Feb. 17, 1936	16.18	6,120	Mar. 5, 1952	13.43	3,600	
	Mar. 20, 1936	15.41	5,180	Mar. 27, 1952	13.82	3,860	
	Apr. 8, 1936	15.15	4,960	Apr. 28, 1952	17.30	7,600	
1937	Jan. 6, 1937	14.73	4,440	1953	Nov. 23, 1952	16.16	6,140
	Jan. 22, 1937	16.38	6,370	Jan. 26, 1953	13.51	3,660	
	Jan. 30, 1937	15.46	5,290	1954	May 22, 1954	16.32	6,270
	Apr. 28, 1937	20.00	11,500	1955	Aug. 21, 1955	16.73	6,830
	Aug. 27, 1937	15.96	5,880	1956	Oct. 4, 1955	16.38	6,400
	Sept. 8, 1937	15.18	4,960	Oct. 17, 1955	15.72	5,550	
1938	June 23, 1938	16.75	6,890	Feb. 7, 1956	13.31	3,540	
	June 30, 1938	16.19	6,120	1957	Oct. 28, 1956	14.95	4,820
	July 28, 1938	19.93	11,400	Feb. 2, 1957	15.12	4,920	
1939	Mar. 17, 1939	14.05	3,810	Mar. 1, 1957	14.54	4,360	
	Aug. 30, 1939	16.42	6,370	1958	Dec. 11, 1957	14.88	4,560
1940	Aug. 17, 1940	23.66	25,200	Dec. 22, 1957	15.31	4,990	
1941	Apr. 5, 1941	13.48	3,440	Jan. 26, 1958	13.39	3,520	
1942	July 3, 1942	10.50	2,230	Mar. 1, 1958	14.02	3,860	
1943	Feb. 8, 1943	14.43	4,150	Apr. 13, 1958	14.24	3,980	
1944	Mar. 8, 1944	-	3,500	May 7, 1958	17.73	8,090	
1945	May 29, 1945	16.73	6,790	1959	Dec. 30, 1958	14.83	4,460
	July 20, 1945	20.30	12,600				
	Sept. 20, 1945	13.84	3,650				

460. Stony Creek near Dinwiddie, Va.
(Published as "at Dinwiddie" 1947, 1949-50)

Location.--Lat 37°04'00", long 77°36'10", on right bank at upstream side of bridge on U. S. Highway 1, 1.2 miles southwest of Dinwiddie, Dinwiddie County, 1.7 miles downstream from Chamberlains Bed Creek, and 5.7 miles downstream from confluence of White Oak and Butterwood Creeks.

Drainage area.--111 sq mi.

Gage.--Nonrecording prior to June 12, 1957; recording thereafter. Crest-stage gage installed Nov. 28, 1950. Altitude of gage is 131 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above.

Bankfull stage.--6 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges of Stony Creek near Dinwiddie, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	-	8,000	1955	Aug. 13, 1955	9.46	1,680
1947	Mar. 15, 1947	7.20	890	1955	Aug. 18, 1955	11.52	3,000
1948	Feb. 15, 1948	10.05	1,950	1956	Oct. 1, 1955	9.62	1,830
1949	Aug. 29, 1949	8.53	1,270	1957	Oct. 28, 1956	10.56	2,600
1950	Sept. 10, 1950	8.00	1,100	1957	Nov. 3, 1956	9.16	1,550
1951	Mar. 20, 1951	6.7	771	1957	Feb. 27, 1957	9.55	1,950
1952	Jan. 29, 1952	10.93	2,530	1957	June 6, 1957	8.62	1,390
1952	Apr. 25, 1952	10.75	2,460	1958	Dec. 9, 1957	8.53	1,270
1953	Nov. 21, 1952	8.60	1,310	1958	Dec. 21, 1957	9.35	1,640
1954	Jan. 25, 1953	10.38	2,190	1958	Apr. 11, 1958	8.39	1,240
1954	May 21, 1954	9.08	1,510	1958	May 7, 1958	11.30	2,840
				1959	Dec. 29, 1958	9.59	1,730

465. Anderson Branch at Sussex, Va.

Location.--Lat 36°55'10", long 77°15'45", on right bank 20 ft downstream from bridge on State Highway 40, 1.0 mile east of Sussex, Sussex County, and 1.5 miles upstream from mouth.

Drainage area.--5.4 sq mi, approximately.

Gage.--Recording. Altitude of gage is 96 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and extended above by logarithmic plotting.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Aug. 15, 1949	4.95	96	1954	Feb. 22, 1954	4.71	64
	Aug. 29, 1949	4.86	86	1954	May 21, 1954	5.63	170
1950	Sept. 12, 1950	6.12	228	1955	Aug. 23, 1955	5.78	188
1951	Mar. 20, 1951	4.29	35	1955	Sept. 20, 1955	4.63	77
1952	Jan. 29, 1952	5.37	136	1956	Feb. 7, 1956	4.69	62
1952	Apr. 27, 1952	4.88	83	1956	Mar. 17, 1956	4.63	55
1953	Feb. 15, 1953	4.45	40	1956	June 2, 1956	5.28	128

470. Nottoway River near Sebrell, Va.

Location.--Lat 36°46'13", long 77°09'59", on right bank at upstream side of highway bridge, 1 mile downstream from Three Creek, 2.5 miles southwest of Sebrell, Southampton County, and 5.5 miles upstream from Assamoosick Swamp.

Drainage area.--1,451 sq mi.

Gage.--Nonrecording prior to Aug. 23, 1950; recording thereafter. Datum of gage is 5.94 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--16 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Nottoway River near Sebrell, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	29.7	48,000	1951	Mar. 24, 1951	14.40	4,090
1942	Apr. 2, 1942	12.78	3,050	1952	May 1, 1952	19.61	12,000
1943	Feb. 11, 1943	17.00	6,800	1953	Nov. 26, 1952	15.72	5,260
1944	Mar. 11, 1944	16.7	6,410	1954	May 25, 1954	18.70	10,100
1945	July 22, 1945	24.5	25,000	1955	Aug. 24, 1955	19.00	10,700
1946	Jan. 2, 1946	18.29	9,230	1956	Feb. 11, 1956	16.27	5,920
1947	Jan. 25, 1947	14.50	4,170	1957	Feb. 5, 1957	18.35	9,440
1948	Feb. 19, 1948	18.24	9,020	1958	May 10, 1958	21.80	16,900
1949	Jan. 3, 1949	17.60	7,800	1959	Jan. 3, 1959	17.55	8,240
1950	Sept. 14, 1950	16.13	5,690				

475. Blackwater River near Dendron, Va.

Location.--Lat 37°01'30", long 76°52'30", on left bank 10 ft upstream from Walls Bridge, 1.2 miles downstream from Cypress Swamp, and 3.5 miles southeast of Dendron, Surry County.

Drainage area.--285 sq mi.

Gage.--Recording. Datum of gage is 30.99 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,800 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Subsequent to Oct. 1, 1958, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	13.1	10,000	1951	Mar. 22, 1951	4.56	842
1942	Mar. 11, 1942	4.34	560	1952	Jan. 30, 1952	6.56	2,490
1943	Feb. 8, 1943	5.70	1,580	1953	Mar. 18, 1953	5.08	1,220
1944	Mar. 9, 1944	5.84	1,790	1954	May 23, 1954	5.66	1,660
1945	July 21, 1945	8.90	4,710	1955	Aug. 19, 1955	6.41	2,310
1946	Dec. 31, 1945	6.74	2,580	1956	Feb. 13, 1956	4.99	1,150
1947	Jan. 23, 1947	4.62	845	1957	Feb. 4, 1957	6.20	2,130
1948	Feb. 18, 1948	6.20	2,130	1958	Aug. 5, 1958	7.49	3,300
1949	Aug. 16, 1949	6.45	2,220	1959	Jan. 2, 1959	6.24	2,190
1950	Sept. 12, 1950	6.12	2,040				

a From floodmarks by Corps of Engineers.

480. Blackwater River at Zuni, Va.

Location.--Lat 36°52'05", long 76°50'07", on left bank at downstream side of bridge on U. S. Highway 460 at Zuni, Isle of Wight County, 1.6 miles downstream from Pope Swamp and 4.2 miles upstream from Antioch Swamp.

Drainage area.--448 sq mi.

Gage.--Nonrecording prior to July 18, 1957; recording thereafter. Datum of gage is 8.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended above by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--Subsequent to July 1, 1958, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown.

Peak stages and discharges of Blackwater River at Zuni, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	23.2	16,000	1951	Mar. 24, 1951	8.28	1,070
1943	Feb. 9, 1943	10.35	2,120	1952	Mar. 7, 1952	11.88	2,920
1944	Mar. 9, 1944	11.08	2,580	1953	Mar. 22, 1953	8.76	1,260
1945	July 25, 1945	15.05	5,200	1954	May 23, 1954	10.90	2,320
				1955	Aug. 24, 1955	11.40	2,620
1946	Jan. 2, 1946	11.62	2,740	1956	Feb. 9, 10, 1956	9.62	1,620
1947	Jan. 22-25, 1947	8.23	985	1957	Feb. 4, 5, 1957	11.80	2,860
1948	Feb. 17, 1948	11.09	2,440	1958	May 9, 1958	13.77	4,240
1949	Aug. 18, 1949	13.34	3,880	1959	Jan. 4, 1959	11.32	2,560
1950	Sept. 14, 1950	9.80	1,720				

484. Seacock Creek near Ivor, Va.

Location.--Lat 36°55'28", long 76°55'48", at bridge on State Highway 618, half a mile west of U. S. Highway 460, and 3 miles northwest of Ivor, Southampton County.

Drainage area.--27.4 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 45 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 50 cfs and extended above on basis of logarithmic plotting.

Bankfull stage.--3 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept. 12, 1950	4.50	170	1955	Aug. 24, 1955	4.64	195
1951	June 1951	3.98	95	1956	Feb. 9, 1956	4.38	145
1952	Jan. 29, 1952	4.86	240	1957	Feb. 4, 1957	4.9	240
1953	Nov. 21, 1952	4.59	180	1958	May 6, 1958	6.33	700
1954	May 23, 1954	4.81	220	1959	Dec. 30, 1958	5.57	430

485. Seacock Creek at Unity, Va.

Location.--Lat 36°49'15", long 76°53'00", at highway bridge, 0.7 mile northeast of Unity, Southampton County, 1 mile upstream from mouth, and 4.2 miles downstream from Round Hill Swamp.

Drainage area.--102 sq mi.

Gage.--Nonrecording. Datum of gage is 9.22 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	July 11, 1943	7.50	500	1946	Dec. 31, 1945	7.70	633
1944	Mar. 9, 1944	7.94	614	1947	Apr. 18, 1947	6.40	332
1945	July 23, 1945	8.44	-	1948	Feb. 16, 1948	8.18	778
	Sept. 13, 1945	-	1,180	1949	Aug. 16, 1949	8.62	946

a Affected by backwater from Blackwater River.

495. Blackwater River near Franklin, Va.
(Published as "near Burdette" prior to Aug. 26, 1944)

Location.--Lat 36°45'45", long 76°53'55", on right bank 0.4 mile south of town of Burdette, 0.5 mile upstream from Black Creek, 3.3 miles downstream from Corrowaugh Swamp, and 6 miles north of Franklin, Southampton County.

Drainage area.--613 sq mi.

Gage.--Nonrecording prior to Aug. 26, 1944, at site 5.1 miles upstream, at datum 3.37 ft lower; recording thereafter. Datum of gage is 1.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended above by logarithmic plotting for upstream site. Defined by current-meter measurements below 5,300 cfs and extended above by logarithmic plotting for present site.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a22	21,000	1951	Mar. 24, 1951	8.08	1,350
				1952	Mar. 7, 1952	12.1	4,190
1942	Mar. 14, 1942	10.46	756	1953	Mar. 22, 1953	8.44	1,430
1943	Feb. 9, 1943	15.65	2,500	1954	May 23, 1954	10.64	2,940
1944	Mar. 10, 1944	17.27	3,380	1955	Aug. 24, 1955	11.50	3,660
1945	July 25, 1945	13.4	5,360				
1946	Jan. 3, 1946	11.1	3,340	1956	Feb. 10-13, 1956	9.49	2,090
1947	Jan. 24, 25, 1947	8.16	1,280	1957	Feb. 4, 5, 1957	11.55	3,930
1948	Feb. 18, 1948	10.9	3,180	1958	May 9, 1958	13.47	5,450
1949	Aug. 19, 1949	11.5	3,660	1959	Jan. 5, 1959	10.40	2,970
1950	July 17, 1950	9.94	2,480				

a Present site and datum.

497. Cypress Swamp near Burdette, Va.

Location.--Lat 36°44'29", long 76°56'18", at bridge on State Highway 635, 3 miles southwest of Burdette, Southampton County, and 5 miles north of Franklin.

Drainage area.--8.55 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 25 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 74 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept. 12, 1950	5.30	150	1955	Apr. 26, 1955	5.36	152
1951	March 1951	5.25	148	1956	Feb. 9, 1956	5.05	137
1952	Jan. 29, 1952	5.20	145	1957	Feb. 4, 1957	4.74	122
1953	February 1953	3.61	73	1958	May 6, 1958	6.17	197
1954	January 1954	5.52	162	1959	Dec. 30, 1958	4.65	118

505. North Meherrin River near Keysville, Va.

Location.--Lat 37°03'05", long 78°25'20", on right bank at upstream side of highway bridge, 3.5 miles northeast of Keysville, Charlotte County, and 3.6 miles upstream from Owl Creek.

Drainage area.--9.2 sq mi, approximately.

Gage.--Recording gage. Altitude of gage is 475 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 570 cfs and extended above by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1940	August 1940	a10.3	-	1953	Mar. 24, 1953	5.47	695	
1949	Nov. 28, 1948	5.10	590	1954	Aug. 17, 1953	5.50	710	
	Dec. 4, 1948	5.63	755		Mar. 1, 1954	6.06	890	
	Mar. 23, 1949	5.16	605	Apr. 16, 1954	4.30	420		
	1950	Oct. 31, 1949	5.94	830	1955	Oct. 15, 1954	4.37	430
May 18, 1950		4.70	500	Mar. 5, 1955		4.61	480	
July 24, 1950		6.04	860	Apr. 14, 1955		7.28	1,320	
July 26, 1950		5.73	770	Aug. 18, 1955		6.31	960	
Sept. 12, 1950		5.73	770	1956	Oct. 14, 1955	5.54	725	
Sept. 22, 1950		5.34	665		Feb. 6, 1956	4.58	480	
1951	July 16, 1951	4.55	440	1957	Apr. 8, 1957	5.27	635	
	July 24, 1951	4.20	400		Sept. 17, 1957	6.45	1,000	
1952	Dec. 21, 1951	5.79	800	1958	Nov. 25, 1957	4.62	480	
	Jan. 28, 1952	4.54	440		Jan. 14, 1958	4.98	565	
	Mar. 11, 1952	4.69	500		Jan. 25, 1958	5.48	710	
	Mar. 24, 1952	5.34	665		Feb. 26, 1958	5.21	620	
	Apr. 27, 1952	6.06	890		Apr. 6, 1958	4.92	540	
	July 17, 1952	4.55	500		Apr. 10, 1958	4.95	552	
	Aug. 22, 1952	5.23	695		May 6, 1958	5.00	565	
	Sept. 1, 1952	6.80	1,160		June 26, 1958	4.80	520	
	1953	Nov. 20, 1952	5.74		770	1959	Dec. 29, 1958	5.76	800
Jan. 24, 1953		4.93	552					
Feb. 21, 1953		5.14	605					

a From information by local residents.

510. North Meherrin River near Lunenburg, Va.

Location.--Lat 36°59'50", long 78°21'00", on right bank at downstream side of bridge on State Highway 40, 0.5 mile downstream from Tusekiah Creek, 4.5 miles upstream from Juniper Creek, and 5 miles northwest of Lunenburg, Lunenburg County.

Drainage area.--60 sq mi, approximately.

Gage.--Nonrecording prior to July 5, 1951; recording thereafter. Datum of gage is 333.7 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended above on basis of logarithmic plotting.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks shown prior to October 1951. Base for partial-duration series, 1,700 cfs.

CHOWAN RIVER BASIN

Peak stages and discharges of North Meherrin River near Lunenburg, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a48	-	1954	Apr. 16, 1954	15.13	2,500
1947	Sept. 25, 1947	15.0	2,480	1955	Apr. 14, 1955	19.70	3,800
1948	Feb. 14, 1948	17.0	2,890		Aug. 18, 1955	19.35	3,700
1949	Nov. 28, 1948	14.0	2,240	1956	Oct. 14, 1955	15.50	2,610
1950	Oct. 31, 1949	18.25	3,340		Feb. 6, 1956	11.68	1,710
1951	July 16, 1951	7.20	808	1957	Apr. 9, 1957	14.15	2,280
1952	Dec. 21, 1951	14.80	2,430		Sept. 17, 1957	20.80	4,160
	Jan. 28, 1952	14.30	2,310	1958	Nov. 25, 1957	13.87	2,340
	Mar. 11, 1952	11.67	1,710		Dec. 9, 1957	11.22	1,750
	Mar. 24, 1952	14.54	2,360		Jan. 25, 1958	14.86	2,560
	Apr. 27, 1952	17.0	3,000		Feb. 26, 1958	14.37	2,460
	Sept. 1, 1952	16.87	2,970		Apr. 11, 1958	14.79	2,540
1953	Nov. 20, 1952	16.15	2,790		May 6, 1958	12.10	1,950
	Jan. 24, 1953	15.93	2,710		Aug. 3, 1958	14.20	2,410
	Feb. 21, 1953	12.10	1,800		Aug. 25, 1958	14.77	2,540
	Mar. 24, 1953	11.83	1,730	1959	Dec. 29, 1958	16.76	3,090
1954	Mar. 1, 1954	13.23	2,040		July 14, 1959	11.81	1,880

a From information by local resident.

515. Meherrin River near Lawrenceville, Va.

Location.--Lat 36°43'00", long 77°49'55", on right bank 50 ft upstream from Gholson Bridge, 0.6 mile upstream from Allen Creek, and 3 miles southeast of Lawrenceville, Brunswick County.

Drainage area.--553 sq mi.

Gage.--Nonrecording prior to Nov. 17, 1931; recording thereafter. Datum of gage is 136.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of velocity-area studies and records for Nottoway River near Stony Creek.

Bankfull stage.--15 ft.

Historical data.--The flood of Aug. 17, 1940, is the greatest since at least 1873.

Remarks.--Information for floods prior to 1929 derived from data reported in Congressional documents: 71st Cong., 2d sess., H. Doc. 446, Meherrin River (1930). Discharges shown are based on the assumption that no shift in the rating curve occurred other than defined in subsequent years. Only annual peaks are shown prior to October 1931. Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1873	Feb. 10, 1873	-	-	1931	Apr. 7, 1931	15.88	4,320
1888	Sept. 13, 1888	-	-	1932	Jan. 10, 1932	18.20	a5,280
1889	June 2, 1889	31.2	18,000		Mar. 7, 1932	22.42	8,600
1893	May 6 or 7, 1893	-	-	1933	Apr. 18, 1933	17.98	5,200
1908	Aug. 28, 1908	31.9	19,000	1934	Mar. 6, 1934	19.63	5,880
1912	March 1912	-	-		May 17, 1934	16.57	4,610
1919	July 25, 1919	-	-		May 26, 1934	16.58	4,610
					Sept. 9, 1934	16.70	4,650
1928	Apr. 27, 1928	25	10,000	1935	Dec. 1, 1934	24.17	9,420
1929	Mar. 6, 1929	22.10	6,990		Jan. 24, 1935	18.37	5,370
1930	Oct. 3, 1929	22.66	7,270		Apr. 3, 1935	19.38	5,790
					Apr. 9, 1935	17.23	4,860

Peak stages and discharges of Meherrin River near Lawrenceville, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Sept. 7, 1935	23.35	8,600	1949	Nov. 30, 1948	19.44	5,430
1936	Jan. 5, 1936	24.34	9,530		Jan. 1, 1949	18.06	4,850
	Jan. 21, 1936	25.84	11,200	1950	Nov. 2, 1949	15.95	4,110
	Feb. 16, 1936	22.37	7,660				
	Mar. 19, 1936	21.98	7,300	1951	Mar. 21, 1951	15.12	3,800
	Apr. 8, 1936	18.97	5,230				
1937	Jan. 4, 1937	19.39	5,430	1952	Dec. 23, 1951	21.38	6,800
	Jan. 21, 1937	21.64	6,960		Jan. 11, 1952	17.04	4,800
	Apr. 27, 1937	30.92	17,300		Jan. 30, 1952	20.89	6,410
	Aug. 26, 1937	18.27	4,930		Mar. 5, 1952	16.34	4,570
	Sept. 8, 1937	19.55	5,540		Mar. 26, 1952	17.65	5,070
1938	June 21, 1938	22.45	7,660	1953	Nov. 22, 1952	22.7	7,930
	June 29, 1938	18.20	4,890		Jan. 26, 1953	18.76	5,520
	July 27, 1938	28.7	14,500				
1939	Mar. 17, 1939	17.32	4,560	1954	Mar. 2, 1954	15.77	4,350
	Aug. 30, 1939	20.95	6,480	1955	Apr. 16, 1955	16.85	4,780
1940	Feb. 8, 1940	17.20	4,520		Aug. 20, 1955	25.37	10,600
	Aug. 17, 1940	42.0	38,000	1956	Oct. 2, 1955	18.83	5,560
1941	Nov. 16, 1940	17.02	4,450		Feb. 8, 1956	16.12	4,500
1942	Aug. 10, 1942	15.65	3,970		Mar. 18, 1956	16.72	4,730
1943	Feb. 7, 1943	18.36	4,970		Apr. 13, 1956	16.14	4,500
1944	Apr. 13, 1944	17.72	4,700	1957	Feb. 2, 1957	18.53	6,060
	Sept. 21, 1944	18.15	4,890		Feb. 27, 28, 1957	17.27	5,400
1945	Oct. 1, 1944	20.7	7,390		Mar. 1, 1957	15.91	4,730
	Feb. 14, 1945	16.6	4,970		Apr. 10, 1957	16.27	4,900
	May 28, 1945	18.4	6,010	1958	Nov. 27, 1957	16.72	5,100
	July 19, 1945	26.4	11,800		Dec. 10, 1957	17.53	5,500
	July 29, 1945	21.6	7,930		Dec. 21, 1957	16.73	5,150
	Sept. 19, 1945	25.8	11,200		Jan. 15, 1958	15.87	4,700
					Jan. 26, 1958	17.44	5,450
1946	Dec. 27, 1945	17.5	5,470		Feb. 28, 1958	18.40	5,950
	Dec. 30, 1945	16.9	5,120		Apr. 12, 1958	18.32	5,900
	Feb. 1, 1946	15.8	4,570		May 1, 1958	16.20	4,850
	Feb. 12, 1946	18.7	6,190	1959	May 8, 1958	24.09	9,890
1947	Sept. 27, 1947	19.1	5,280		Dec. 31, 1958	22.67	8,660
1948	Feb. 16, 1948	22.37	7,660		Apr. 14, 1959	15.76	4,660

a Mean daily.

517. Rocky Run at Lawrenceville, Va.

Location.--Lat 36°46'15", long 77°50'30", at bridge on State Highway 642, 0.4 mile north of U. S. Highway 58, and 0.8 mile northeast of Lawrenceville, Brunswick County.

Drainage area.--6.16 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 185 ft (from topographic map).

Stage-discharge relation.--Not defined.

Bankfull stage.--5 ft.

Remarks.--Only annual peak stages are shown.

CHOWAN RIVER BASIN

Peak stages and discharges of Rocky Run at Lawrenceville, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 16, 1954	5.63	-	1957	Oct. 28, 1956	6.25	-
1955	Aug. 18, 1955	4.87	-	1958	May 7, 1958	6.20	-
1956	October 1955	3.28	-	1959	Dec. 12, 1958	6.17	-

4520. Meherrin River at Emporia, Va.

Location.--Lat 36°41'20", long 77°32'20" on left bank at downstream side of bridge on U. S. Highway 301, in Emporia, Greensville County.

Drainage area.--749 sq mi.

Gage.--Recording. Altitude of gage is 68 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above by logarithmic plotting on basis of record for station near Lawrenceville.

Bankfull stage.--13 ft.

Historical data.--Flood of Aug. 17, 1940, was greatest since at least 1873.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Information for floods prior to 1929 derived from data reported in Congressional documents: 71st Cong., 2d sess., H. Doc. 446, Meherrin River (1930). Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1873	Feb. 10, 1873	(a)	-	1953	Nov. 23, 1952	21.90	11,200
1888	Sept. 13, 1888	-	-		Jan. 26, 1953	19.18	7,640
1889	June 2, 1889	(b)	-	1954	May 21, 1954	17.63	5,860
1893	May 6 or 7, 1893	-	-	1955	Aug. 21, 1955	22.80	12,600
1908	Aug. 28, 1908	28	-	1956	Oct. 3, 1955	19.07	7,520
1912	March 1912	25	-		Oct. 18, 1955	18.82	7,180
1919	July 25, 1919	-	-		Feb. 8, 1956	17.86	6,190
1928	Apr. 27, 1928	26	-		Mar. 18, 1956	18.07	6,410
1940	Aug. 17, 1940	30.0	40,000		July 22, 1956	17.87	6,190
1951	Mar. 21, 1951	16.90	5,100	1957	Feb. 3, 1957	19.78	7,580
1952	Dec. 23, 1951	20.60	9,410		Feb. 28, 1957	18.77	6,500
	Jan. 11, 1952	18.68	7,070	1958	Dec. 11, 1957	19.02	6,700
	Jan. 30, 1952	20.32	8,990		Dec. 22, 1957	18.62	6,300
	Mar. 5, 1952	18.31	6,630		Jan. 27, 1958	18.37	6,100
	Mar. 26, 1952	18.60	6,960		Mar. 1, 1958	19.02	6,700
	Apr. 27, 1952	20.30	8,990	1959	Apr. 1, 1958	18.90	6,600
					May 8, 1958	22.76	12,100
					Dec. 31, 1958	21.18	9,400

a At least 4 ft lower than flood of 1889.

b Slightly lower than flood of 1908 at station "near Lawrenceville."

525. Fontaine Creek near Brink, Va.

Location.--Lat 36°36'55", long 77°42'00", on left bank 10 ft downstream from bridge on State Highway 603, 0.3 mile downstream from Quarrel Creek, 2.7 miles west of Brink, Greensville County, and 10 miles southwest of Emporia.

Drainage area.--68.6 sq mi.

Gage.--Recording. Altitude of gage is 150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs and extended above by logarithmic plotting. A large shift occurred in December 1957.

Bankfull stage.--12 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	18.5	2,720	1957	Oct. 28, 1956	12.62	1,350
1954	Apr. 27, 1954	12.49	1,320		Dec. 16, 1956	12.30	1,260
	May 21, 1954	11.70	1,100		Feb. 1, 1957	14.37	1,940
1955	Aug. 18, 1955	13.71	1,620	1958	May 7, 1958	18.18	2,660
					Aug. 27, 1958	12.24	1,130
1956	Oct. 2, 1955	11.36	1,040	1959	Dec. 29, 1958	13.42	1,590

a From information by local resident.

530. Fontaine Creek near Emporia, Va.

Location.--Lat 36°38'10", long 77°35'10", near center of span on upstream side of highway bridge, 4.4 miles southwest of Emporia, Greensville County, and 7.1 miles upstream from Cattail Creek.

Drainage area.--96 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 98 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 13, 1944		1,050	1949	Dec. 1, 1948	6.12	1,120
1945	July 19, 1945	10.58	3,500	1950	Sept. 13, 1950	6.26	1,220
1946	May 27, 1946	9.5	2,840	1951	Aug. 5, 1951	4.60	520
1947	Jan. 21, 1947	4.17	354	1952	Apr. 27, 1952	7.90	2,010
1948	Feb. 15, 1948	7.32	1,660	1953	Mar. 26, 1953	6.00	1,080

a Estimated daily mean.

531.1. Wildcat Swamp near Jackson, N. C.

Location.--Lat 36°26', long 77°22', at culvert on U. S. Highway 158, 4 miles northeast of Jackson, Northhampton County, and 8 $\frac{1}{4}$ miles upstream from mouth.

Drainage area.--0.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs and extended on basis of culvert measurement at 278 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 2, 1953	22.04	12	1957	Feb. 5, 1957	24.61	84
1954	May 24, 1954	24.44	81	1958	May 7, 1958	25.97	278
1955	Aug. 12, 1955	22.73	33	1959	Apr. 13, 1959	22.75	34
1956	May 6, 1956	23.27	51				

531.7. Cutawhiskie Creek near Woodland, N. C.

Location.--Lat 36°18', long 77°12', at bridge on State Highway 35, 2 $\frac{1}{4}$ miles south of Woodland, Northhampton County, and 6 $\frac{1}{2}$ miles upstream from Chapel Branch.

Drainage area.--11.8 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	February 1953	20.54	86	1957	Feb. 4, 1957	21.35	250
1954	Jan. 26, 1954	21.76	380	1958	May 7, 1958	21.94	434
1955	Sept. 5, 1955	22.61	700	1959	Apr. 13, 1959	20.85	138
1956	Mar. 16, 1956	21.38	260				

535. Ahoskie Creek at Ahoskie, N. C.

Location.--Lat 36°16'50", long 77°00'00", on right bank 10 ft downstream from bridge on State Highway 350, half a mile upstream from Atlantic Coast Line Railroad bridge, and three-quarters of a mile southwest of Ahoskie, Hertford County.

Drainage area.--64.3 sq mi.

Gage.--Nonrecording Jan. 20, 1950, to May 23, 1951; recording thereafter. Altitude of gage is 22 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above.

Remarks.--Considerable natural storage afforded by swamps. Only annual peaks are shown.

Peak stages and discharges of Ahoskie Creek at Ahoskie, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	all.1	-	1955	Sept.22, 1955	8.77	1,420
1951	June 30, 1951	6.12	277	1956	Mar. 19, 1956	7.48	731
1952	Feb. 29, 1952	7.47	904	1957	Feb. 2,3,1957	7.63	798
1953	Feb. 17, 1953	6.33	356	1958	May 8, 1958	7.91	1,190
1954	Jan. 24, 1954	7.89	1,100	1959	Aug. 1,2,1959	7.07	635

a From floodmark witnessed by local resident.

535.3. Chinkapin Swamp near Colerain, N. C.

Location.--Lat 36°12', long 76°47', at culvert on State Highway 350, 0.8 mile upstream from Peele Branch, and 1.0 mile west of Colerain, Bertie County.

Drainage area.--8.89 sq mi.

Gage.--Crest-stage gage. Datum of gage is 14.29 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 670 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 15, 1953	20.91	170	1957	February 1957	20.51	105
1954	January 1954	21.38	270	1958	May 7, 1958	21.42	280
1955	Sept.20, 1955	23.17	770	1959	April 1959	20.75	160
1956	May 6, 1956	20.79	133				

ROANOKE RIVER BASIN

545. Roanoke River at Lafayette, Va.

Location.--Lat 37°14'10", long 80°12'30", on right bank at Lafayette, Montgomery County, 0.4 mile downstream from confluence of North and South Forks, and 1.1 miles upstream from Cove Hollow.

Drainage area.--257 sq mi.

Gage.--Nonrecording, Sept. 12, 1943, to July 29, 1949; recording thereafter. Datum of gage is 1,174.47 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--6 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 4,500 cfs.

ROANOKE RIVER BASIN

Peak stages and discharges of Roanoke River at Lafayette, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	12.2	19,000	1953	Mar. 24, 1953	8.00	6,260
1944	Feb. 18, 1944	7.5	6,500	1954	Mar. 1, 1954	6.05	3,250
1945	Sept. 18, 1945	10.0	10,400	1955	Oct. 15, 1954	7.91	6,090
1946	Feb. 10, 1946	8.0	7,200	1956	Apr. 16, 1956	6.66	4,200
1947	Jan. 20, 1947	8.0	7,200	1957	Jan. 29, 1957	9.02	8,000
1948	Aug. 4, 1948	11.0	13,200	1957	Apr. 5, 1957	6.95	4,650
1949	Dec. 4, 1948	10.5	11,500	1958	July 13, 1958	6.77	4,200
1950	Feb. 2, 1950	7.03	4,650	1959	Dec. 29, 1958	8.38	6,940
	May 30, 1950	7.75	5,920	1959	Sept. 30, 1959	11.56	15,600
	July 12, 1950	8.23	6,600				
	Sept. 10, 1950	6.97	4,650				
1951	Dec. 7, 1950	9.38	8,800				
1952	Sept. 1, 1952	8.10	6,430				

a From information by local residents.

550. Roanoke River at Roanoke, Va.

Location.--Lat 37°15'30", long 79°56'20", on left bank 50 ft downstream from Walnut Street Bridge in Roanoke, Roanoke County, 3.2 miles upstream from Tinker Creek, and at mile 360.6.

Drainage area.--388 sq mi.

Gage.--Nonrecording prior to June 7, 1937; recording thereafter. Datum of gage is 906.84 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended above by logarithmic plotting on basis of slope-area measurement and records for other stations in Roanoke River basin.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to October 1936. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	16	20,300	1921	Nov. 30, 1920	3.5	1,700
1897	Feb. 23, 1897	11.2	12,600	1922	Nov. 1, 1921	13.2	14,100
1898	May 6, 1898	5.9	5,470	1923	Mar. 7, 1923	7.4	5,510
1899	Mar. 4, 1899	10.0	11,000	1924	Sept. 29, 1924	10.5	9,600
1900	Mar. 20, 1900	5.6	5,060	1925	Jan. 18, 1925	3.0	1,300
1901	May 22, 1901	15.0	19,000	1926	Jan. 17, 1926	4.1	2,240
	Aug. 6, 1901	15.0	19,000	1927	Dec. 26, 1926	10.0	8,900
1902	Feb. 25, 1902	13.2	15,300	1928	Aug. 16, 1928	18.1	26,100
1903	Feb. 17, 1903	9.4	10,200	1929	Mar. 5, 1929	7.1	5,180
1904	Aug. 10, 1904	4.0	2,900	1930	Oct. 2, 1929	11.5	11,100
1905	July 12, 1905	12.8	14,800	1931	Aug. 22, 1931	5.4	3,470
1906	Dec. 20, 1905	5.2	4,520	1932	Feb. 3, 1932	4.1	2,240
1907	Sept. 23, 1907	9.2	9,920	1933	Oct. 17, 1932	13.1	13,900
1908	Jan. 12, 1908	10.6	11,800	1934	Mar. 28, 1934	8.3	6,570
1909	Oct. 24, 1908	9.0	9,660	1935	Jan. 23, 1935	11.70	11,400
1910	June 13, 1910	8.8	9,380	1936	Mar. 18, 1936	11.0	10,400
1911	Apr. 5, 1911	4.1	3,040	1937	Aug. 26, 1937	6.07	4,210
1912	May 12, 1912	8.5	8,980	1937	Aug. 30, 1937	10.15	9,180
1913	Mar. 14, 1913	8.6	9,120	1938	Oct. 19, 1937	10.84	10,000
1914	Jan. 9, 1914	3.9	2,780	1938	Oct. 28, 1937	6.64	4,760
1915	Dec. 5, 1914	10.0	11,000	1938	June 21, 1938	6.16	4,320
1916	Dec. 18, 1915	7.8	8,040	1938	July 24, 1938	6.52	4,650
1917	Mar. 5, 1917	6.6	6,420	1939	July 29, 1939	7.69	5,990
1918	June 26, 1918	8.2	6,440	1939	Aug. 19, 1939	9.67	8,480
1919	Jan. 3, 1919	8.4	6,700				
1920	Feb. 4, 1920	6.2	4,270				

Peak stages and discharges of Roanoke River at Roanoke, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	8.0	6,780	1949	Dec. 30, 1948	6.60	4,670
	May 30, 1940	-	17,000		Apr. 14, 1949	8.76	7,220
	Aug. 14, 1940	18.25	26,400		June 29, 1949	8.57	6,830
	Aug. 31, 1940	7.14	5,530		July 17, 1949	6.82	4,870
1941	July 8, 1941	5.84	3,910	1950	Aug. 29, 1949	8.28	6,570
1942	May 16, 1942	6.75	4,990		Feb. 2, 1950	7.37	5,510
	May 22, 1942	7.38	5,740		May 3, 1950	6.92	4,970
	June 12, 1942	7.30	5,610		May 30, 1950	8.64	6,960
	Aug. 17, 1942	7.11	5,350	July 12, 1950	6.71	4,770	
1943	Dec. 30, 1942	6.85	4,990	Sept.10, 1950	6.56	4,670	
	Apr. 19, 1943	7.50	5,870	1951	Dec. 8, 1950	11.15	10,600
1944	Feb. 18, 1944	6.65	4,750	1952	Sept. 1, 1952	8.29	6,570
	May 25, 1944	6.24	4,310	1953	Mar. 24, 1953	8.79	7,220
	Sept.18, 1944	6.00	4,090	1954	Mar. 1, 1954	6.69	4,770
1945	Oct. 21, 1944	7.98	6,200	1955	Oct. 15, 1954	7.80	5,960
	Sept.18, 1945	13.70	15,100	1956	Apr. 16, 1956	6.16	4,270
1946	Jan. 8, 1946	7.24	5,290	1957	Jan. 29, 1957	9.20	8,900
	Feb. 10, 1946	7.33	5,400		Feb. 9, 1957	5.90	4,380
1947	Jan. 20, 1947	7.77	5,960		Apr. 5, 1957	7.20	6,080
1948	Nov. 3, 1947	8.44	6,700	1958	Mar. 31, 1958	6.16	4,290
	Feb. 14, 1948	8.96	7,500		May 6, 1958	7.21	5,760
	Apr. 7, 1948	8.73	7,090	1959	Dec. 29, 1958	7.76	6,650
	Aug. 5, 1948	11.96	11,900		Sept.30, 1959	13.28	14,900
1949	Nov. 28, 1948	7.96	6,200				
	Dec. 4, 1948	13.68	15,100				

a Estimated by Corps of Engineers from flood profile.

560. Roanoke River at Niagara, Va.

Location.--Lat 37°15'18", long 79°52'18", on right bank 200 ft downstream from powerplant of Appalachian Electric Power Co. at Niagara, Roanoke County, 2 miles downstream from Tinker Creek, 2.1 miles southeast of Vinton, and at mile 355.3.

Drainage area.--511 sq mi.

Gage.--Recording. Datum of gage is 820.15 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above by logarithmic plotting on basis of velocity-area studies by Geological Survey, unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 7,000 cfs.

ROANOKE RIVER BASIN

Peak stages and discharges of Roanoke River at Niagara, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Dec. 26, 1926	12.23	10,800	1943	Apr. 19, 1943	11.57	9,170
	Feb. 19, 1927	12.08	10,500				
1928	Aug. 16, 1928	17.36	34,400	1944	Sept. 18, 1944	13.24	14,100
	Sept. 6, 1928	12.38	11,400				
	Sept. 19, 1928	13.94	16,900	1945	Oct. 21, 1944	11.1	7,950
1929	Feb. 28, 1929	10.51	7,300					1946	Feb. 10, 1946	10.1	6,570
	Oct. 2, 1929	14.29	19,700				
1930	Oct. 22, 1929	12.30	11,100	1947	Jan. 20, 1947	10.73	7,380
	1931	Aug. 22, 23, 1931	-					5,000	1948	Nov. 3, 1947	12.53	11,400
1932		Mar. 6, 1932	7.99	4,150	Feb. 14, 1948	12.05	9,920
	1933	Oct. 17, 1932	15.36	24,300	Apr. 7, 1948	11.20	8,100
1934		Mar. 28, 1934	11.48	8,950	Aug. 4, 1948	14.00	16,600
	1935	Dec. 1, 1934	-	12,000	1949	Nov. 29, 1948	11.47	8,640
Jan. 23, 1935		14.20	19,500	Dec. 4, 1948		16.30	27,600
Mar. 25, 1935		11.20	8,380	Apr. 14, 1949	11.78	9,360	
Apr. 1, 1935		12.43	11,400	June 29, 1949	11.88	9,640	
1936	Jan. 3, 1936	11.25	8,380	1950	July 17, 1949	13.00	12,900
	Jan. 19, 1936	12.34	11,100		Aug. 29, 1949	10.70	7,380
	Feb. 14, 1936	12.25	10,800	1951	May 31, 1950	12.20	10,500
	Mar. 17, 1936	14.78	21,700		Sept. 10, 1950	11.25	8,100
1937	Jan. 20, 1937	11.54	8,950	1952	Dec. 7, 1950	13.50	14,600
	Aug. 31, 1937	-	8,500		1953	Sept. 1, 1952	13.10	13,200
1938	Oct. 19, 1937	13.58	17,100	Mar. 24, 1953		12.42	11,100
	1939	Aug. 19, 1939	-	13,000	1954	Mar. 1, 1954	10.27	6,830
1940		Apr. 20, 1940	10.40	7,160		1955	Oct. 15, 1954	13.60	15,000
	May 30, 1940	14.50	20,500	1956	Apr. 16, 1956		9.30	5,580
	Aug. 14, 1940	17.5	35,000		1957	Jan. 29, 1957	12.33	10,800
	Aug. 30, 1940	10.7	7,600	Apr. 5, 1957		10.98	8,000
1941	July 8, 1941	9.71	6,290	1958	May 6, 1958	10.68	7,490
	1942	May 22, 1942	11.25		8,380	1959	Dec. 29, 1958	11.08	8,180

570. Blackwater River near Union Hall, Va.

Location.--Lat 37°02'35", long 79°41'07", on left bank 100 ft upstream from highway bridge at Kemps Ford, 3 miles upstream from Gills Creek, and 3 miles north of Union Hall, Franklin County.

Drainage area.--208 sq mi.

Gage.--Nonrecording prior to Nov. 22, 1929; recording thereafter. Datum of gage is 693.13 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs and extended above by logarithmic plotting on basis of unit hydrograph and flood routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1929. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Blackwater River near Union Hall, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Apr. 29, 1925	3.85	1,070	1943	Aug. 9, 1943	6.13	2,400
1926	Jan. 18, 1926	5.0	1,840	1944	Feb. 18, 1944	5.50	2,000
1927	Dec. 25, 1926	11.0	6,400		Sept. 18, 1944	10.0	5,530
1928	Aug. 11, 1928	19.5	18,000	1945	Oct. 20, 1944	11.30	6,660
1929	June 9, 1929	6.5	2,800		Sept. 18, 1945	12.80	8,350
1930	Oct. 2, 1929	12.70	8,730	1946	Jan. 7, 1946	6.66	2,860
	Oct. 22, 1929	7.4	3,450		Feb. 10, 1946	6.27	2,570
	Nov. 18, 1929	6.00	2,470		May 4, 1946	5.94	2,260
	Mar. 8, 1930	11.02	6,080		July 2, 1946	6.37	2,630
	June 9, 1930	6.55	2,840		Sept. 24, 1946	6.27	2,550
1931	Aug. 22, 1931	6.12	2,490	1947	June 14, 1947	6.98	3,130
1932	Mar. 6, 1932	6.22	2,560	1948	Nov. 3, 1947	-	2,300
1933	Oct. 17, 1932	15.27	12,500		Feb. 14, 1948	6.33	2,670
	Nov. 1, 1932	6.15	2,560		Mar. 31, 1948	6.83	3,050
	Nov. 9, 1932	6.20	2,560		June 18, 1948	7.92	3,770
1934	Mar. 28, 1934	7.09	3,190		Aug. 4, 1948	7.21	3,290
1935	Dec. 1, 1934	8.61	4,160	1949	Nov. 29, 1948	6.26	2,600
	Jan. 23, 1935	7.10	3,070		Dec. 4, 1948	9.80	5,370
	June 8, 1935	6.89	2,930		Jan. 5, 1949	5.52	2,040
	Sept. 6, 1935	9.36	4,800		Mar. 23, 1949	12.90	8,610
1936	Jan. 3, 1936	7.96	3,700		Apr. 13, 1949	5.59	2,180
	Jan. 19, 1936	9.87	5,200		May 2, 1949	5.84	2,390
	Feb. 14, 1936	8.07	3,770		June 30, 1949	11.58	6,850
	Mar. 18, 1936	8.88	4,400		July 16, 1949	7.22	3,210
	Apr. 6, 1936	5.80	2,160		Aug. 29, 1949	6.79	2,890
1937	Oct. 17, 1936	10.15	5,440	1950	May 31, 1950	10.32	5,850
	Jan. 3, 1937	5.96	2,300		July 12, 1950	5.93	2,390
	Jan. 19, 1937	7.19	3,140		Sept. 10, 1950	10.21	5,690
	Apr. 25, 1937	6.31	2,510	1951	Dec. 7, 1950	10.13	5,610
	July 13, 1937	7.92	3,630		Feb. 7, 1951	6.73	2,890
	Aug. 11, 1937	6.15	2,440		June 13, 1951	6.28	2,600
	Aug. 25, 1937	5.91	2,230		June 17, 1951	7.04	3,130
1938	Oct. 4, 1937	7.83	3,560	1952	Dec. 21, 1951	6.23	2,600
	Oct. 19, 1937	15.88	13,400		Feb. 4, 1952	6.23	2,600
	June 22, 1938	6.28	2,630		Mar. 11, 1952	9.03	4,810
	July 20, 1938	7.12	3,190		Apr. 28, 1952	5.82	2,320
	July 30, 1938	7.04	3,120		Sept. 1, 1952	10.36	5,850
	Aug. 3, 1938	8.72	4,340	1953	Feb. 21, 1953	7.32	3,450
1939	Feb. 11, 1939	5.73	2,090		Mar. 24, 1953	8.88	4,730
	July 29, 1939	9.42	4,800	1954	Feb. 21, 1954	5.59	2,180
	Aug. 19, 1939	18.50	17,900		Mar. 1, 1954	6.57	2,890
1940	Apr. 20, 1940	6.77	2,910	1955	Oct. 15, 1954	11.10	6,480
	May 25, 1940	9.53	5,200		Apr. 14, 1955	6.58	2,810
	May 31, 1940	13.33	9,520		June 11, 1955	5.78	2,260
	June 17, 1940	6.91	2,990		July 12, 1955	6.71	2,890
	Aug. 14, 1940	19.52	19,700		Aug. 18, 1955	11.30	6,660
	Sept. 1, 1940	6.35	2,610	1956	Sept. 27, 1956	4.70	1,520
1941	Apr. 5, 1941	5.77	2,190	1957	Mar. 1, 1957	5.52	2,060
1942	May 20, 1942	7.07	3,200		Apr. 5, 1957	7.75	3,770
	May 22, 1942	9.28	5,220		May 20, 1957	5.62	2,120
	June 11, 1942	6.41	2,630		Sept. 17, 1957	8.44	4,250
	Sept. 7, 1942	6.00	2,360	1958	Feb. 27, 1958	4.95	1,760
1943	Dec. 30, 1942	6.42	2,630		May 7, 1958	5.02	1,760
	Apr. 19, 1943	8.45	4,370	1959	Dec. 29, 1958	9.10	4,810
	May 26, 1943	9.35	5,320		July 14, 1959	5.68	2,190
	July 10, 1943	13.25	9,480		July 20, 1959	8.42	4,250
	July 29, 1943	6.20	2,490				

a Estimated daily mean.

ROANOKE RIVER BASIN

575. Roanoke (Staunton) River near Toshes, Va.

Location.--Lat 37°02'03", long 79°31'18", on right bank 1 $\frac{1}{2}$ miles downstream from Witchers Creek, 3 miles upstream from Pigg River, 5 miles northwest of Toshes, Pittsylvania County, and at mile 313.1.

Drainage area.--1,020 sq mi.

Gage.--Nonrecording prior to Oct. 14, 1929; recording thereafter. Datum of gage is 588.99 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs and extended to 70,000 cfs by logarithmic plotting on basis of unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--13 ft.

Remarks.--Only annual flood peaks are shown prior to October 1929. Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 19, 1926	8.6	7,840	1945	Oct. 21, 1944	13.8	16,100
1927	Feb. 19, 1927	13.7	15,900		Sept. 18, 1945	21.04	30,800
1928	Aug. 16, 1928	20.0	28,600				
1929	June 15, 1929	10.0	9,900	1946	Jan. 8, 1946	9.37	9,000
1930	Oct. 2, 1929	19.75	28,200	1947	Jan. 20, 1947	9.98	9,900
	Oct. 22, 1929	11.84	12,600		June 15, 1947	9.90	9,750
	Mar. 8, 1930	11.60	12,200	1948	Nov. 3, 1947	13.76	16,100
1931	Aug. 22, 1931	8.67	7,990		Feb. 14, 1948	12.74	14,200
1932	Mar. 6, 1932	8.60	7,850		Mar. 31, 1948	9.77	9,800
1933	Oct. 18, 1932	19.60	27,700		Apr. 7, 1948	8.47	7,680
	Nov. 10, 1932	9.40	9,000		Aug. 5, 1948	16.81	21,800
	Dec. 28, 1932	9.98	9,900	1949	Nov. 29, 1948	10.46	10,600
1934	Mar. 28, 1934	8.38	7,560		Dec. 4, 1948	22.40	35,800
1935	Dec. 1, 1934	15.70	19,400		Dec. 30, 1948	10.65	10,800
	Jan. 23, 1935	15.60	19,200		Jan. 6, 1949	8.84	8,100
	Mar. 26, 1935	10.20	10,200	1950	Mar. 23, 1949	16.04	20,200
	Apr. 1, 1935	11.68	12,600				
	Sept. 6, 1935	12.53	13,800		Feb. 2, 1950	8.74	7,960
1936	Jan. 4, 1936	11.35	12,100		May 31, 1950	18.88	26,200
	Jan. 20, 1936	14.57	17,400		Sept. 10, 1950	15.06	18,400
	Feb. 15, 1936	12.56	14,000	1951	Dec. 8, 1950	15.62	19,400
	Mar. 18, 1936	17.13	21,900		Feb. 4, 1951	9.41	9,000
1937	Oct. 17, 1936	8.87	8,270		Apr. 9, 1951	8.68	7,960
	Jan. 3, 1937	12.10	13,200	1952	Dec. 21, 1951	8.82	8,100
	Jan. 21, 1937	11.80	12,700		Jan. 29, 1952	8.80	8,100
	Apr. 26, 1937	9.61	9,300		Feb. 4, 1952	8.90	8,250
	Aug. 26, 1937	9.55	9,300		Mar. 11, 1952	11.15	11,800
	Aug. 31, 1937	13.38	15,400		Apr. 28, 1952	9.25	8,700
1938	Oct. 19, 1937	20.45	29,500		Sept. 1, 1952	15.56	19,400
	June 22, 1938	10.27	10,400	1953	Feb. 21, 1953	9.30	8,850
	July 24, 1938	11.55	12,400		Mar. 24, 1953	13.97	16,400
1939	Feb. 11, 1939	9.38	9,000	1954	Mar. 1, 1954	10.88	11,300
	Aug. 19, 1939	19.95	28,600	1955	Oct. 15, 1954	19.76	28,200
1940	Apr. 20, 1940	9.50	9,150		Apr. 15, 1955	9.68	9,450
	May 25, 1940	12.05	13,000		July 11, 1955	9.30	8,850
	May 31, 1940	18.75	26,000		Aug. 18, 1955	13.38	15,400
	Aug. 15, 1940	27.36	70,000	1956	Apr. 16, 1956	8.11	7,120
	Aug. 31, 1940	10.95	11,400	1957	Oct. 22, 1956	9.12	8,550
1941	Apr. 5, 1941	8.11	7,120		Jan. 30, 1957	10.02	9,900
1942	May 22, 1942	14.28	16,900		Feb. 10, 1957	8.40	7,570
	June 12, 1942	8.78	8,100		Mar. 1, 1957	8.62	7,840
1943	Apr. 20, 1943	12.12	13,200		Apr. 5, 1957	13.68	15,900
	May 26, 1943	9.23	8,700		Sept. 17, 1957	11.50	12,200
	July 10, 1943	11.53	12,200	1958	Mar. 27, 1958	9.00	8,400
1944	Feb. 18, 1944	8.62	7,820		Mar. 31, 1958	9.83	9,600
	Sept. 19, 1944	18.88	26,200		May 6, 1958	11.12	11,600
				1959	Dec. 29, 1958	14.13	16,600
					July 20, 1959	10.58	10,800

580. Snow Creek at Sago, Va.

Location.--Lat 36°53'50", long 79°39'05", at highway bridge 200 ft downstream from First Fork and three-quarters of a mile northwest of Sago, Franklin County.

Drainage area.--60 sq mi, approximately.

Gage.--Recording. Datum of gage is 706.20 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above by logarithmic plotting on basis of velocity-area studies and records for other stations in Roanoke River basin.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 23, 1935	9.63	888	1939	July 29, 1939	13.63	1,700
					Aug. 18, 1939	12.65	1,410
1936	Jan. 19, 1936	-	3,000				
	Mar. 18, 1936	15.15	1,660	1940	May 30, 1940	12.77	1,460
	Apr. 6, 1936	11.40	1,130		July 31, 1940	14.10	1,880
	June 18, 1936	10.81	1,040		Aug. 14, 1940	22.98	12,000
	July 20, 1936	12.07	1,220	1941	July 8, 1941	10.70	972
1937	Oct. 16, 1936	10.94	1,060				
	Jan. 3, 1937	12.40	1,270	1942	May 16, 1942	13.10	1,440
	Apr. 25, 1937	11.71	1,170		May 22, 1942	14.20	1,910
	Aug. 11, 1937	12.65	1,290		June 11, 1942	10.65	1,020
	Aug. 25, 1937	12.45	1,270	1943	Apr. 19, 1943	12.69	1,440
	Aug. 30, 1937	12.50	1,280				
1938	Oct. 4, 1937	11.56	1,190	1944	May 6, 1944	13.14	1,550
	Oct. 20, 1937	15.16	2,290		Sept. 19, 1944	13.58	1,700
1939	Feb. 11, 1939	13.03	1,520		Sept. 29, 1944	13.27	1,610

585. Pigg River near Toshes, Va.

Location.--Lat 36°59'01", long 79°30'52", on right bank 0.5 mile downstream from Fryingpan Creek, and 1.7 miles northwest of Toshes, Pittsylvania County.

Drainage area.--394 sq mi.

Gage.--Recording. Datum of gage 602.55 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above by logarithmic plotting on basis of slope-area measurement at 20,800 cfs, and records for other stations in Roanoke River basin.

Bankfull stage.--15 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges of Pigg River near Toshes, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 22, 1931	12.58	4,880	1945	Sept. 18, 1945	20.3	12,800
1932	Mar. 6, 1932	13.57	5,680	1946	Jan. 7, 1946	17.0	9,000
	Mar. 28, 1932	12.32	4,670		1947	Jan. 20, 1947	10.7	3,550
1933	Oct. 17, 1932	21.98	15,100	1948		Nov. 3, 1947	13.66	5,760
1934	Sept. 16, 1934	13.11	5,280		Feb. 14, 1948	12.52	4,810
	1935	Oct. 6, 1934	11.90		4,390	Apr. 1, 1948	16.72	8,670
Dec. 1, 1934		15.28	7,200		June 18, 1948	15.82	7,700
Jan. 23, 1935		13.60	5,680	1949	Nov. 28, 1948	13.08	5,280
Mar. 13, 1935		11.81	4,320		Dec. 4, 1948	17.27	9,350
Sept. 6, 1935	13.73	5,760	Jan. 6, 1949		12.36	4,740	
1936	Jan. 3, 1936	15.72	7,600		Mar. 23, 1949	13.26	5,440
	Jan. 19, 1936	20.71	13,400	May 17, 1949	12.47	4,810	
	Feb. 14, 1936	15.20	7,100	June 30, 1949	15.12	7,000	
	Mar. 18, 1936	18.82	11,100	1950	May 31, 1950	12.75	5,040
	Apr. 6, 1936	13.30	5,440		Sept. 11, 1950	17.73	9,770
	June 18, 1936	16.48	8,450	1951	Dec. 8, 1950	11.59	4,180
1937	Oct. 17, 1936	12.80	5,040		Feb. 7, 1951	13.28	5,440
	Jan. 3, 1937	16.98	9,000		Apr. 3, 1951	12.46	4,810
	Apr. 26, 1937	13.98	6,000	1952	Dec. 21, 1951	15.93	7,700
	Aug. 11, 1937	12.10	4,530		Feb. 4, 1952	12.16	4,530
	Aug. 25, 1937	16.22	8,120		Mar. 11, 1952	13.50	5,680
	Aug. 30, 1937	13.85	5,840		Apr. 28, 1952	13.95	6,000
1938	Oct. 4, 1937	14.83	6,720	Sept. 1, 1952	15.80	7,700	
	Oct. 20, 1937	22.23	15,400	1953	Feb. 21, 1953	13.23	5,360
1939	Feb. 11, 1939	14.35	6,360		Mar. 24, 1953	12.16	4,600
	July 29, 1939	15.01	7,200	1954	Jan. 22, 1954	15.24	7,100
	Aug. 19, 1939	18.40	10,600		1955	Oct. 15, 1954	23.66	17,500
1940	May 31, 1940	16.83	8,780	Apr. 14, 1955		11.51	4,110
	Aug. 15, 1940	32.5	34,300	Aug. 18, 1955		18.50	10,700
1941	July 5, 1941	12.87	4,820	1956	Apr. 16, 1956	11.32	3,970
1942	May 16, 1942	13.15	5,360		1957	Oct. 23, 1956	11.86	4,390
	May 22, 1942	15.34	7,070	Oct. 27, 1956		11.38	4,040
	June 11, 1942	14.32	6,240	Apr. 5, 1957		15.04	6,900
1943	Dec. 30, 1942	12.35	4,670	Sept. 17, 1957		19.17	11,500
	Apr. 19, 1943	15.80	7,700	1958	Nov. 19, 1957	13.98	6,000
	July 10, 1943	13.20	5,360		Feb. 27, 1958	11.73	4,380
1944	May 6, 1944	14.92	6,810		Mar. 31, 1958	11.20	4,060
	Sept. 18, 1944	25.8	20,800		May 6, 1958	11.90	4,520
	Sept. 29, 1944	15.59	7,500	1959	Dec. 29, 1958	21.33	14,200
1945	Oct. 21, 1944	18.9	11,200				

590. Roanoke (Staunton) River near Gretna, Va.

Location.--Lat 37°00'46", long 79°28'24", at highway bridge at Tolers Ferry, 0.7 mile below Pigg River, and 7.5 miles northwest of Gretna, Pittsylvania County.

Drainage area.--1,430 sq mi (approximately).

Gage.--Nonrecording. Altitude of gage is 575 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	September 1924	217.8	17,400	1928	Aug. 17, 1928	29.2	35,700
1926	Jan. 19, 1926	12.80	9,980	1929	Feb. 28, 1929	18.48	18,400
		20.00	20,700	1930	Oct. 2, 1929	27.6	31,200

a From information obtained from observer.

595. Goose Creek near Huddleston, Va.

Location.--Lat 37°10'20", long 79°31'15", on left bank a quarter of a mile upstream from Haden Bridge, three-eighths of a mile upstream from Rockcastle Creek, and 3.5 miles upstream from Huddleston, Bedford County.

Drainage area.--187 sq mi.

Gage.--Nonrecording prior to Sept. 9, 1930; recording thereafter. At site a quarter of a mile downstream at different datum, Mar. 15, 1925, to Sept. 30, 1927. At site 4 miles downstream at different datum, October 1927 to August 1928, July 1929 to Sept. 8, 1930. Datum of gage is 592.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,400 cfs and extended above on basis of slope-area measurement at gage height 24.1 ft.

Bankfull stage.--13 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	September 1924	21.4	14,000	1942	May 16, 1942	11.98	4,850
1926	Jan. 18, 1926	11	4,300	May 22, 1942	14.42	6,530	
1927	Nov. 16, 1926	13	5,500	June 11, 1942	9.45	3,260	
1928	August 1928	35.3	-	Aug. 8, 1942	19.70	11,000	
1930	Oct. 2, 1929	23	7,000	1943	Dec. 30, 1942	11.38	4,460
1931	Aug. 1, 1931	9.93	3,550	Apr. 19, 1943	10.10	3,670	
	Aug. 22, 1931	10.05	3,610	May 26, 1943	12.80	5,380	
1932	Mar. 6, 1932	10.22	3,730	1944	Feb. 18, 1944	9.27	3,200
1933	Oct. 17, 1932	18.15	8,980	May -6, 1944	9.74	3,420	
	Dec. 28, 1932	9.92	3,550	Sept.18, 1944	16.80	7,990	
1934	Mar. 27, 1934	9.98	3,610	1945	Oct. 20, 1944	15.0	6,630
1935	Dec. 1, 1934	14.79	6,830	Aug. 2, 1945	9.5	3,300	
	Jan. 23, 1935	12.58	5,240	1946	Feb. 10, 1946	10.18	3,690
	Mar. 12, 1935	9.39	3,260	July 2, 1946	9.85	3,470	
	Apr. 1, 1935	12.49	5,180	1947	Aug. 23, 1947	9.93	3,580
	Sept. 5, 1935	17.53	8,350	1948	Nov. 3, 1947	13.01	5,300
1936	Jan. 3, 1936	13.26	5,730	Feb. 14, 1948	9.37	3,250	
	Jan. 19, 1936	12.77	5,380	Apr. 1, 1948	10.83	4,080	
	Feb. 15, 1936	10.50	3,910	Aug. 4, 1948	18.05	9,000	
	Mar. 18, 1936	13.08	5,590	Aug. 22, 1948	16.63	7,910	
	Aug. 17, 1936	11.76	4,720	1949	Nov. 28, 1948	9.33	3,200
1937	Oct. 17, 1936	12.30	5,040	Dec. 4, 1948	20.39	12,300	
	Jan. 3, 1937	9.97	3,610	Dec. 30, 1948	12.12	4,760	
	Jan. 19, 1937	11.68	4,660	Jan. 5, 1949	9.52	3,360	
	Aug. 13, 1937	12.04	4,850	Mar. 23, 1949	24.10	17,600	
1938	Oct. 19, 1937	25.75	20,300	May 2, 1949	9.25	3,150	
	Oct. 27, 1937	11.96	4,850	May 10, 1949	13.67	5,690	
	July 23, 1938	13.07	5,590	July 17, 1949	14.03	6,020	
	Aug. 3, 1938	9.27	3,200	1950	May 31, 1950	25.10	19,200
	Aug. 6, 1938	16.16	7,930	Sept.10, 1950	17.67	9,300	
1939	Aug. 4, 1939	12.90	5,450	1951	Feb. 7, 1951	10.31	3,740
	Aug. 18, 1939	21.70	14,100	June 13, 1951	9.67	3,420	
1940	May 30, 1940	14.95	6,980	1952	Dec. 21, 1951	10.60	3,910
	Aug. 14, 1940	21.90	14,400	May 11, 1952	14.97	6,660	
	Aug. 16, 1940	14.20	6,380	Aug. 9, 1952	12.24	4,820	
	Aug. 31, 1940	10.65	3,970	Aug. 31, 1952	19.95	11,900	
1941	June 2, 1941	8.20	2,620	1953	Feb. 21, 1953	9.22	3,150
				1954	Jan. 22, 1954	7.62	2,350
				1955	Oct. 15, 1954	23.14	16,000

Peak stages and discharges of Goose Creek near Huddleston, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 21, 1954	12.44	4,940	1957	May 19, 1957	14.67	6,420
	Apr. 14, 1955	8.80	3,020				
	Aug. 17, 1955	9.18	3,150	1958	Mar. 27, 1958	10.90	4,080
1956	Sept. 27, 1956	7.33	2,200				
	1957	Apr. 5, 1957	10.50	3,880	1959	Sept. 30, 1959	7.72	2,600

605. Roanoke (Staunton) River at Altavista, Va.

Location.--Lat 37°06'16", long 79°17'44", on right bank 12 ft upstream from highway bridge, a quarter of a mile south of Altavista, Campbell County, half a mile downstream from Sycamore Creek, 3½ miles upstream from Otter River, and at mile 286.5.

Drainage area.--1,802 sq mi.

Gage.--Recording. Datum of gage is 503.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 52,000 cfs and extended above by logarithmic plotting on basis of unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--20 ft.

Remarks.--Base for partial-duration series, 18,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 22, 1931	18.76	19,500	1942	May 22, 1942	24.31	32,700
1932	Mar. 7, 1932	19.36	20,800		June 11, 1942	18.10	18,000
1933	Oct. 18, 1932	29.30	49,000	1943	Dec. 30, 1942	19.77	21,700
	Dec. 29, 1932	19.35	20,800		Apr. 20, 1943	22.78	28,800
1934	Mar. 28, 1934	18.54	17,800	1944	May 7, 1944	18.73	18,700
1935	Dec. 1, 1934	26.01	37,600		Sept. 19, 1944	31.10	55,900
	Jan. 23, 1935	24.75	34,500	1945	Oct. 21, 1944	25.80	35,800
	Apr. 2, 1935	19.54	21,100		Sept. 19, 1945	23.30	44,100
	Sept. 6, 1935	25.34	35,800	1946	Jan. 8, 1946	20.0	21,300
	1936	Jan. 3, 1936	24.02	32,400	1947	Jan. 21, 1947	17.5	16,400
Jan. 20, 1936		27.66	42,200	1948		Nov. 4, 1947	22.78	27,700
Feb. 15, 1936		24.73	34,200		Feb. 15, 1948	22.50	27,000
Mar. 18, 1936		26.90	40,000	Apr. 1, 1948	21.94	25,600	
1937	Oct. 17, 1936	21.35	25,700	Aug. 5, 1948	24.53	32,100	
	Jan. 3, 1937	24.03	32,400	1949	Nov. 29, 1948	20.86	23,300
	Jan. 21, 1937	21.10	25,000		Dec. 4, 1948	30.84	54,600
	Apr. 26, 1937	19.40	20,900		Dec. 30, 1948	19.65	20,500
	Aug. 31, 1937	21.21	25,200		Jan. 6, 1949	18.41	18,100
1938	Oct. 5, 1937	18.79	19,500		Mar. 23, 1949	26.28	37,300
	Oct. 20, 1937	31.27	57,000	June 30, 1949	22.15	26,300	
	July 24, 1938	18.84	19,500	July 17, 1949	27.04	28,200	
1939	Feb. 11, 1939	19.25	20,400	1950	June 1, 1950	25.80	35,800
	July 30, 1939	19.92	22,000		Sept. 11, 1950	24.64	32,400
	Aug. 19, 1939	29.60	47,300	1951	Dec. 8, 1950	22.14	26,000
1940	May 31, 1940	26.70	39,900		Feb. 8, 1951	18.57	18,500
	Aug. 15, 1940	40.08	105,000	1952	Dec. 21, 1951	21.25	23,900
1941	Apr. 5, 1941	15.47	13,000		Mar. 12, 1952	19.64	20,500

Peak stages and discharges of Roanoke (Staunton) River at Altavista, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Apr. 28, 1952	19.05	19,300	1956	Apr. 16, 1956	14.93	12,000
	Sept. 1, 1952	27.46	41,200				
1953	Mar. 24, 1953	22.15	26,300	1957	Apr. 6, 1957	23.96	30,100
		19.04	19,300				
1954	Jan. 22, 1954	19.04	19,300	1958	Mar. 31, 1958	19.22	19,700
					May 6, 1958	20.54	22,000
1955	Oct. 16, 1954	31.23	52,000	1959	Dec. 30, 1958	24.71	31,800
	Aug. 18, 1955	24.26	30,800				

610. Otter River near Bedford, Va.

Location.--Lat 37°21'50", long 79°25'10", on left bank 10 ft upstream from bridge on U. S. Highway 460, 1 mile downstream from Roaring Run, 5 miles upstream from Elk Creek, 6½ miles northeast of Bedford, Bedford County, and 8 miles upstream from Little Otter River.

Drainage area.--116 sq mi.

Gage.--Recording. Datum of gage is 647.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above on basis of slope-area measurements at gage heights 12.1 and 17.3 ft.

Bankfull stage.--7 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
(a)	-	21.8	-	1952	Dec. 21, 1951	7.89	4,510	
1940	August 1940	12.1	8,080		Jan. 28, 1952	5.10	1,670	
				Feb. 3, 1952	5.26	1,800		
1944	Mar. 7, 1944 May 6, 1944 Sept. 18, 1944	5.72	2,220	Mar. 11, 1952	5.68	2,220		
		8.07	4,840	Mar. 23, 1952	4.97	1,550		
		12.0	8,000	May 11, 1952	8.56	5,140		
				Aug. 5, 1952	5.50	2,020		
				Aug. 9, 1952	16.10	11,100		
1945	Jan. 1, 1945	4.67	1,320	Sept. 1, 1952	9.57	6,040		
1946	Feb. 10, 1946	5.37	1,880	1953	Jan. 24, 1953	4.98	1,590	
1947	June 14, 1947	7.91	4,620		Feb. 21, 1953	5.38	1,930	
					Mar. 24, 1953	6.54	3,080	
1948	Feb. 14, 1948 Mar. 27, 1948 Apr. 1, 1948 Apr. 8, 1948 May 7, 1948 Aug. 4, 1948	5.90	2,420	May 20, 1953	5.76	2,270		
		5.83	2,370	1954	Mar. 1, 1954	7.62	4,240	
		10.72	7,890					
			5.26	1,750	1955	Oct. 15, 1954	11.96	8,000
			5.71	2,220		Nov. 21, 1954	7.52	4,150
	15.62	10,700	Apr. 14, 1955	6.13		2,700		
1949	Nov. 28, 1948 Dec. 4, 1948 Dec. 30, 1948 Jan. 5, 1949 Mar. 23, 1949 Apr. 13, 1949 July 16, 1949	5.68	2,220	June 11, 1955		6.14	2,700	
		14.3	9,810	Aug. 18, 1955		6.06	2,580	
		7.10	3,740	1956	Apr. 16, 1956	4.86	1,510	
		6.38	2,970					
			17.3	12,100	1957	Oct. 27, 1956	5.21	1,750
	7.36	4,050	Jan. 29, 1957	5.31		1,840		
	7.45	4,050	Feb. 28, 1957	6.13		2,750		
1950	Feb. 2, 1950 May 15, 1950 May 31, 1950	5.50	2,020	Apr. 2, 1957		5.50	2,020	
		5.27	1,840	Apr. 5, 1957		6.01	2,530	
		7.59	4,240	1958	Mar. 27, 1958	7.30	3,950	
1951	Dec. 4, 1950 Dec. 7, 1950 Feb. 7, 1951 Mar. 30, 1951	5.06	1,630		Mar. 31, 1958	5.17	1,710	
		5.77	2,270		July 27, 1958	4.97	1,550	
		6.05	2,580	1959	June 2, 1959	6.83	3,410	
		4.90	1,510		Aug. 31, 1959	5.20	1,760	
					Sept. 30, 1959	9.39	5,860	
1952	Dec. 4, 1951	5.40	1,930					

a Occurred in 1937 or 1939; from floodmarks at present site.

ROANOKE RIVER BASIN

613. Nininger Creek near Bedford, Va.

Location.--Lat 37°16'26", long 79°29'31", at bridge on State Highway 43, 4 miles south of Bedford, Bedford County.

Drainage area.--4.77 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 720 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6 cfs and extended on basis of slope-area and contracted-opening measurements at 1,140 cfs and by flow-through-culvert measurement at 2,200 cfs.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 23, 1949	7.7	2,200	1955	Oct. 15, 1954	5.1	1,140
1950	May 31, 1950	3.73	600	1956	-	4.05	720
1951	Feb. 7, 1951	4.17	760	1957	May 1957	5.95	1,450
1952	August 1952	3.44	520	1958	Mar. 27, 1958	3.06	400
1953	February 1953	3.58	560	1959	Dec. 29, 1958	2.87	340
1954	-	-	(a)				

a Peak stage below gage, discharge less than 170 cfs.

615. Otter River near Evington, Va.

Location.--Lat 37°12'30", long 79°18'14", on right bank 10 ft upstream from highway bridge, 2 miles upstream from Flat Creek, and 2 miles southwest of Evington, Campbell County.

Drainage area.--325 sq mi.

Gage.--Recording. Datum of gage is 544.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended above by logarithmic plotting on basis of unit hydrograph and flood-routing studies by Corps of Engineers, and records of other stations in Roanoke River basin.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 3, 1937	15.17	6,070	1944	Sept. 19, 1944	19.64	14,000
	Apr. 26, 1937	13.63	4,580	1945	Oct. 21, 1944	12.00	3,870
1938	Oct. 19, 1937	23.14	27,500	1946	Feb. 10, 1946	13.94	4,950
	Oct. 27, 1937	13.07	4,360	1947	Jan. 20, 1947	12.35	4,070
1939	Aug. 19, 1939	23.13	27,500		June 14, 1947	13.35	4,610
1940	Apr. 9, 1940	13.90	5,430	1948	Feb. 14, 1948	14.77	5,690
	May 31, 1940	12.58	4,520		Apr. 1, 1948	17.00	8,220
	Aug. 14, 1940	22.42	24,600		May 7, 1948	12.63	4,170
1941	Apr. 5, 1941	9.80	2,950		Aug. 4, 1948	17.82	9,580
1942	May 16, 1942	14.82	5,690	1949	Nov. 29, 1948	13.31	4,550
	May 22, 1942	16.34	7,280		Dec. 4, 1948	19.74	14,300
	Aug. 8, 1942	19.84	14,600		Dec. 30, 1948	16.04	6,920
1943	Oct. 15, 1942	13.43	4,610		Jan. 6, 1949	15.39	6,370
	Dec. 30, 1942	16.26	7,280		Mar. 23, 1949	21.86	22,300
	Apr. 19, 1943	12.70	4,220		Apr. 14, 1949	13.90	4,950
1944	Mar. 7, 1944	12.63	4,170	1950	May 31, 1950	14.66	5,600
	May 7, 1944	16.43	7,400	1951	Dec. 4, 1950	13.26	4,550

Peak stages and discharges of Otter River near Evington, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Feb. 7, 1951	14.12	5,100	1955	Oct. 15, 1954	19.42	13,400
	Apr. 3, 1951	12.26	4,020		Nov. 21, 1954	16.78	7,940
	June 13, 1951	16.14	7,040		June 11, 1955	12.88	4,470
			Aug. 18, 1955		15.04	6,090	
1952	Dec. 21, 1951	16.57	7,660	1956	Apr. 16, 1956	10.88	3,370
	Jan. 28, 1952	12.67	4,220		1957	Mar. 1, 1957	13.22	4,680
	Feb. 4, 1952	13.00	4,370	Apr. 5, 1957		14.13	5,370
	May 12, 1952	13.71	5,050	May 19, 1957		15.18	6,250
	Aug. 9, 1952	18.56	11,300				
	Sept. 1, 1952	18.27	10,600				
1953	Feb. 21, 1953	13.46	4,890	1958	Mar. 27, 1958	13.49	4,890
	Mar. 24, 1953	13.63	4,970	1959	June 2, 1959	11.05	3,420
1954	Jan. 22, 1954	12.92	4,470				
	Mar. 1, 1954	14.94	6,010				

620. Otter River near Altavista, Va.

Location.--Lat 37°11'05", long 79°16'45", on left bank 1.2 miles below Flat Creek and 5 miles north of Altavista, Campbell County.

Drainage area.--372 sq mi.

Gage.--Nonrecording prior to Aug. 23, 1930; recording thereafter. Altitude of gage is 540 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above by logarithmic plotting on basis of conveyance-slope study, and records for other stations in Roanoke River basin.

Bankfull stage.--15 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	21.20	14,500	1935	Jan. 23, 1935	16.87	7,560
	Mar. 8, 1930	20.7	13,600		Mar. 13, 1935	15.27	5,780
1931	May 23, 1931	14.16	4,910		Apr. 1, 1935	17.31	8,200
	Aug. 23, 1931	16.98	7,800		Sept. 6, 1935	21.07	14,100
1932	Mar. 6, 1932	18.90	10,500	1936	Jan. 3, 1936	20.15	12,700
1933	Oct. 17, 1932	20.88	13,900		Jan. 19, 1936	20.16	12,700
	Dec. 29, 1932	15.89	6,490		Feb. 14, 1936	18.27	9,450
	Apr. 17, 1933	14.69	5,330		Mar. 17, 1936	21.77	15,500
1934	Mar. 28, 1934	11.91	3,420	Aug. 17, 1936	15.97	6,600	
				1937	Oct. 17, 1936	15.10	5,690
1935	Dec. 1, 1934	19.71	11,800		1938	Oct. 19, 1937	26.8	28,000

625. Roanoke (Staunton) River at Brookneal, Va.

Location.--Lat 37°02'28", long 78°57'02", on left bank 1,600 ft upstream from highway bridge at Brookneal, Campbell County, 3 miles upstream from Falling River, and at mile 255.9.

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

Gage.--Nonrecording Apr. 29, 1923, to Aug. 29, 1929, and Aug. 16 to Oct. 1, 1940, at site 1,800 ft downstream at present datum, and Oct. 2, 1940, to Sept. 30, 1941, at site 1,600 ft downstream at present datum. Recording Aug. 30, 1929, to Aug. 15, 1940, at site 1,800 ft downstream at present datum, and at present site after Sept. 30, 1941. Datum of gage is 351.96 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 55,000 cfs and extended above by logarithmic plotting on basis of slope-area measurement by Geological Survey, unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--23 ft.

Historical data.--Flood of Aug. 15, 1940, is highest known.

Remarks.--Only annual peaks are shown prior to Aug. 30, 1929. Base for partial-duration series, 21,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	36.0	-	1943	Oct. 15, 1942	22.32	22,400
					Dec. 31, 1942	24.09	26,200
1924	Jan. 17, 1924	26.9	25,100		Feb. 6, 1943	21.70	21,200
1925	Oct. 1, 1924	31.46	41,000		Apr. 20, 1943	25.55	29,800
				1944	May 7, 1944	21.62	21,000
1926	Jan. 19, 1926	21.0	18,100		Sept. 19, 1944	37.47	75,500
1927	Dec. 26, 1926	20.0	16,900				
1928	Aug. 12, 1928	37.15	76,300	1945	Oct. 21, 1944	27.93	36,200
1929	Apr. 16, 1929	21.0	20,200		Sept. 19, 1945	30.90	44,200
				1946	Jan. 8, 1946	22.68	23,200
1930	Oct. 3, 1929	33.35	57,700				
	Mar. 8, 1930	24.83	27,700	1947	Jan. 19, 1947	19.90	17,900
1931	Aug. 23, 1931	22.19	22,300	1948	Nov. 4, 1947	24.25	26,200
					Feb. 15, 1948	27.09	33,200
1932	Mar. 7, 1932	24.12	25,800		Apr. 1, 1948	28.15	36,100
					Aug. 5, 1948	27.27	35,800
1933	Oct. 18, 1932	31.64	49,900				
	Dec. 29, 1932	23.42	24,700	1949	Nov. 29, 1948	23.68	25,200
					Dec. 5, 1948	33.93	55,100
1934	Mar. 28, 1934	20.44	19,300		Dec. 31, 1948	23.80	25,400
					Jan. 6, 1949	22.98	23,800
1935	Dec. 2, 1934	28.83	39,200		Mar. 24, 1949	30.52	43,000
	Jan. 24, 1935	27.05	33,800		July 1, 1949	22.58	23,000
	Mar. 13, 1935	21.84	21,600		July 17, 1949	31.17	45,100
	Apr. 2, 1935	22.90	23,700				
	Sept. 6, 1935	29.70	42,000	1950	June 1, 1950	28.5	37,000
					Sept. 11, 1950	25.95	30,500
1936	Jan. 4, 1936	28.25	37,200				
	Jan. 20, 1936	30.80	45,700	1951	Dec. 9, 1950	21.61	21,000
	Feb. 15, 1936	28.18	37,200				
	Mar. 18, 1936	30.71	45,400	1952	Dec. 22, 1951	26.97	33,000
					Apr. 28, 1952	22.20	22,200
1937	Oct. 17, 1936	23.06	24,100		Sept. 2, 1952	30.68	43,600
	Jan. 3, 1937	28.60	38,500				
	Jan. 21, 1937	24.84	27,700	1953	Mar. 25, 1953	22.84	23,400
	Apr. 26, 1937	-	28,000				
	Sept. 1, 1937	22.70	23,300	1954	Jan. 23, 1954	21.14	20,100
1938	Oct. 20, 1937	34.47	60,400	1955	Oct. 16, 1954	32.35	49,100
	June 22, 1938	24.91	28,000		Aug. 18, 1955	28.06	35,800
				1956	Apr. 16, 1956	17.81	14,500
1939	Feb. 11, 1939	23.14	24,100				
	Aug. 20, 1939	32.40	51,200	1957	Apr. 6, 1957	26.36	31,000
1940	May 31, 1940	-	35,000	1958	May 7, 1958	24.41	26,000
	Aug. 15, 1940	46.00	150,000				
				1959	Dec. 30, 1958	26.98	32,500
1941	Apr. 6, 1941	19.5	17,700				
1942	May 23, 1942	27.76	35,500				
	Aug. 8, 1942	24.50	27,200				

635. Falling River at Spring Mills, Va.
(Formerly published as East Fork Falling River at Spring Mills)

Location.--Lat 37°14'40", long 78°55'30", on right bank 300 ft downstream from bridge on State Highway 646 at Spring Mills, Appomattox County, 0.6 mile upstream from Burger Branch, and 5 miles upstream from confluence with North Fork.

Drainage area.--52.2 sq mi. Flow from 9.8 sq mi controlled by three Soil Conservation Service flood-detention reservoirs (two completed in 1956, one in 1958).

Gage.--Recording. Altitude of gage is 470 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs and extended above by logarithmic plotting.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	419.2	9,500	1957	Apr. 9, 1957	4.12	614
1955	Feb. 6, 1955	4.84	782	1958	Nov. 19, 1957	7.70	1,480
	Mar. 5, 1955	6.58	1,210		Jan. 14, 1958	4.31	662
	June 11, 1955	4.84	782		Feb. 26, 1958	4.84	782
	Aug. 18, 1955	7.93	1,530		Apr. 23, 1958	4.32	662
1956	Apr. 16, 1956	4.53	710	1959	Mar. 6, 1959	4.05	602
	Apr. 5, 1957	4.60	734		Apr. 12, 1959	4.70	758
					Sept. 30, 1959	4.53	710

a From information by local resident.

640. Falling River near Naruna, Va.

Location.--Lat 37°07'35", long 78°57'35", on left bank at upstream side of highway bridge, 3.4 miles upstream from Little Falling River, and 2.7 miles northwest of Naruna, Campbell County.

Drainage area.--172 sq mi.

Gage.--Nonrecording July 12, 1929, to Jan. 15, 1935; recording since Sept. 19, 1941. Datum of gage is 412.32 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,100 cfs and extended above on basis of slope-area measurements at gage heights 23.9 and 26.5 ft.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to October 1941. Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	13.0	3,710	1943	Dec. 30, 1942	10.37	2,880
1931	May 23, 1931	7.5	1,510		Feb. 5, 1943	11.44	3,330
	Mar. 6, 1932	16.0	5,900		Apr. 19, 1943	8.56	2,090
1932	Oct. 17, 1932	15.0	5,000		May 21, 1943	11.80	3,520
1933	Mar. 28, 1934	12.5	3,500	1944	Feb. 18, 1944	8.40	2,010
1934	August 1940	26.5	22,000		Feb. 29, 1944	8.67	2,130
					Mar. 7, 1944	9.02	2,260
1942	May 16, 1942	12.96	4,120		Mar. 13, 1944	7.84	1,760
	May 22, 1942	9.42	2,440		Mar. 23, 1944	7.97	1,840
	June 27, 1942	10.83	3,100		Mar. 29, 1944	7.97	1,840
	Aug. 13, 1942	8.30	1,970		Sept. 13, 1944	10.67	3,010
	Aug. 18, 1942	8.67	2,130	Sept. 18 or 19	23.90	15,800	
1943	Oct. 15, 1942	16.12	6,240	1945	Apr. 18, 1945	11.54	3,380
					May 18, 1945	15.26	5,600

ROANOKE RIVER BASIN

Peak stages and discharges of Falling River near Naruna, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 9, 1945	11.20	3,240	1952	Jan. 28, 1952	11.36	3,350
	July 15, 1945	10.81	3,060		Feb. 4, 1952	11.19	3,240
	Sept. 18, 1945	19.8	9,760		Mar. 11, 1952	11.77	3,520
	Sept. 27, 1945	8.90	2,220		Mar. 24, 1952	10.59	2,970
1946	Feb. 10, 1946	9.33	2,390	Apr. 27, 1952	8.64	2,090	
	May 4, 1946	9.40	2,440	June 23, 1952	7.78	1,760	
	May 21, 1946	8.07	1,880	Aug. 10, 1952	8.02	1,840	
	May 26, 1946	8.60	2,090	Sept. 1, 1952	11.80	3,520	
	Aug. 6, 1946	8.07	1,880	1953	Mar. 15, 1953	7.86	1,800
1947	Jan. 20, 1947	9.38	2,440		1954	Dec. 14, 1953	10.28	2,830
	Apr. 16, 1947	7.77	1,760	Jan. 16, 1954		9.33	2,390
1948	Nov. 11, 1947	7.80	1,760	Jan. 22, 1954		14.36	4,970
	Jan. 13, 1948	10.34	2,830	1955	Feb. 7, 1955	8.97	2,260
	Feb. 14, 1948	13.25	4,240		Mar. 5, 1955	12.43	3,810
	Aug. 22, 1948	10.10	2,740		June 11, 1955	9.28	2,390
1949	Nov. 20, 1948	11.57	3,430		Aug. 14, 1955	12.65	3,910
	Dec. 4, 1948	17.34	7,270	1956	Apr. 16, 1956	8.83	2,180
	Dec. 30, 1948	10.94	3,100		1957	Apr. 5, 1957	9.29	2,390
	Jan. 6, 1949	10.28	2,830	Apr. 9, 1957		10.16	2,790
	Jan. 22, 1949	7.73	1,710	June 5, 1957		7.64	1,670
	June 29, 1949	9.08	2,300	Sept. 17, 1957		9.84	2,610
	July 11, 1949	7.77	1,760	1958	Nov. 19, 1957	12.32	3,760
	July 17, 1949	15.04	5,390		Nov. 25, 1957	8.12	1,880
1950	Oct. 31, 1949	8.82	2,180		Jan. 14, 1958	8.75	2,180
	June 23, 1950	7.93	1,800		Jan. 25, 1958	7.56	1,670
	July 25, 1950	9.97	2,700		Feb. 27, 1958	10.74	3,010
	Sept. 9, 1950	7.87	1,800		Mar. 27, 1958	8.60	2,090
	Sept. 22, 1950	11.68	3,470		Mar. 31, 1958	7.87	1,800
1951	Dec. 4, 1950	11.78	3,520		Apr. 23, 1958	8.61	2,090
	Feb. 7, 1951	9.10	2,300	Apr. 28, 1958	8.22	1,920	
	Apr. 3, 1951	8.90	2,220	May 7, 1958	8.26	1,970	
	June 14, 1951	7.72	1,710	1959	Dec. 29, 1958	9.84	2,610
1952	Nov. 1, 1951	8.02	1,840		Mar. 6, 1959	8.48	2,050
	Dec. 21, 1951	15.48	5,760		Apr. 13, 1959	9.53	2,480

645. Little Falling River at Hat Creek, Va.

Location (revised).--Lat 37°07'50", long 78°54'50", at highway bridge 1 mile northwest of village of Hat Creek, Campbell County, and 4.7 miles upstream from mouth.

Drainage area.--43 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 440 ft, revised (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 830 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	6.90	428	1932	Mar. 6, 1932	18.0	2,300
1931	Aug. 22, 1931	6.44	358	1933	Oct. 17, 1932	9.26	854
				1934	Aug. 13, 1934	7.09	508

650. Falling River near Brookneal, Va.

Location.--Lat 37°04'54", long 78°56'07", 300 ft downstream from Hat Creek and $2\frac{1}{4}$ miles north of Brookneal, Campbell County.

Drainage area.--228 sq mi.

Gage.--Recording. Datum of gage is 378.69 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended above on basis of slope-area measurement for station near Naruna and records for other stations in Roanoke River basin.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Dec. 1, 1934	-	5,500	1938	Oct. 20, 1937	18.14	6,790
	Sept. 6, 1935	26.3	17,500		June 22, 1938	26.70	18,200
1936	Jan. 3, 1936	17.05	5,860	1939	Aug. 19, 1939	17.45	6,280
	Jan. 19, 1936	21.16	10,100		1940	Aug. 15, 1940	29.35	23,000
	Mar. 17 or 18	28.0	20,400	1941		July 17, 1941	17.50	6,260
1937	Jan. 3, 1937	19.56	8,260				
	Apr. 26, 1937	22.76	12,200				

655. Cub Creek at Phenix, Va.

Location.--Lat 37°04'45", long 78°45'50", on right bank 10 ft upstream from bridge on State Highway 40, 0.9 mile west of Phenix, Charlotte County, 1.8 miles downstream from Rough Creek, and 6.4 miles upstream from Louise Creek.

Drainage area.--102 sq mi.

Gage.--Nonrecording, Aug. 21, 1946, to July 13, 1950; recording thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs and extended above by logarithmic plotting.

Bankfull stage.--8 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to October 1950. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	17.5	4,000	1954	Jan. 23, 1954	10.37	1,870
1947	Mar. 14, 1947	8.3	1,250		Mar. 2, 1954	8.17	1,230
1948	Apr. 1, 1948	11.88	2,340		June 16, 1954	8.93	1,420
1949	Dec. 4, 1948	13.0	2,720	1955	Mar. 6, 1955	10.12	1,780
1950	Sept. 13, 1950	9.62	1,600		Aug. 18, 1955	12.68	2,620
1951	Dec. 5, 1950	7.09	938	1956	Mar. 17, 1956	4.44	430
1952	Dec. 21, 1951	11.80	2,300	1957	Apr. 6, 1957	7.58	1,070
	Jan. 29, 1952	8.65	1,340		Apr. 9, 1957	7.73	1,090
	Feb. 4, 1952	7.72	1,090	1958	Feb. 27, 1958	8.72	1,370
	Mar. 25, 1952	8.66	1,370		May 7, 1958	8.16	1,230
	Sept. 1, 1952	8.48	1,310				
1953	Nov. 21, 1952	11.76	2,300	1959	Dec. 30, 1958	9.07	1,480

660. Roanoke (Staunton) River at Randolph, Va.

Location.--Lat 36°54'54", long 78°44'28", on right bank 14 ft downstream from bridge on State Highway 746, 2.8 miles northwest of Randolph, Charlotte County, 3.6 miles upstream from Roanoke Creek, and at mile 227.3.

Drainage area.--3,000 sq mi, approximately.

Gage.--Nonrecording prior to October 1950; recording thereafter. Aug. 27, 1900, to Oct. 13, 1902, at site 3.2 miles downstream at datum about 5.9 ft lower. Oct. 14, 1902, to Aug. 11, 1906, and Oct. 1, 1927, to Mar. 31, 1930, at original site at datum 3.93 ft lower. Datum of gage is 307.59 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--For periods 1901-6 and 1928-30, defined by current-meter measurements below 58,000 cfs and extended above by logarithmic plotting. Defined by current-meter measurements since 1950.

Bankfull stage.--22 ft.

Remarks.--Records of stage for 1907-27, 1931-39, 1941-47, collected by U. S. Weather Bureau at 1930 site and datum, and for 1948-50 at present site and datum. Figures shown in parentheses are approximate values considered accurate within 20 percent. Only annual peaks are shown prior to October 1950. Base for partial-duration series, 20,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a39	(130,000)	1936	Mar. 19, 1936	29.1	(55,000)
1901	May 23, 1901	28.6	60,000	1937	Jan. 4, 1937	26.4	(42,000)
1902	Dec. 31, 1901	35.0	97,000	1938	Oct. 22, 1937	29.2	(56,000)
1903	Feb. 18, 1903	26.8	47,000	1939	Aug. 21, 1939	26.9	(44,000)
1904	June 2, 1904	12.5	10,000	1940	Aug. 16, 1940	a41.6	150,000
1905	July 15, 1905	23.2	34,000	1941	Apr. 6, 1941	19.6	(19,000)
1906	Jan. 5, 1906	25.8	39,000	1942	Aug. 10, 1942	23.4	(29,000)
1907	Oct. 21, 1906	25.7	(38,000)	1943	Feb. 6, 1943	25.0	(35,000)
1908	Jan. 9, 1908	24.8	(34,000)	1944	Sept. 30, 1944	32.6	(75,000)
1909	May 23, 1909	21.6	(23,000)	1945	Sept. 20, 1945	28.7	(53,000)
1910	June 15, 1910	20.8	(21,000)	1946	Jan. 9, 1946	23.6	(30,000)
1911	Apr. 7, 1911	19.8	(19,000)	1947	Jan. 22, 1947	22.2	(25,000)
1912	Mar. 16, 1912	30.6	(63,000)	1948	Feb. 16, 1948	26.4	(42,000)
1913	Mar. 16, 1913	28.4	(52,000)	1949	Dec. 6, 1948	28.7	(53,000)
1914	Nov. 10, 1913	21.4	(23,000)	1950	June 2, 1950	25.7	(38,000)
1915	Jan. 9, 1915	25.2	(36,000)	1951	Dec. 5, 1950	22.34	21,700
1916	Oct. 3, 1915	24.8	(34,000)	Dec. 9, 1950	22.76	22,800	
1917	Mar. 6, 1917	26.6	(42,000)	Apr. 4, 1951	22.40	21,900	
1918	Apr. 22, 1918	22.0	(24,000)	1952	Dec. 22, 1951	25.83	29,900
1919	Jan. 4, 1919	24.9	(35,000)	Jan. 29, 1952	22.87	23,100	
1920	Feb. 5, 1920	30.9	(65,000)	Apr. 29, 1952	23.27	22,900	
1921	Jan. 16, 1921	20.0	(20,000)	Sept. 2, 1952	26.50	31,600	
1922	Mar. 5, 1922	21.6	(23,000)	1953	Mar. 25, 1953	23.39	23,100
1923	Mar. 18, 1923	27.8	(48,000)	1954	Jan. 23, 1954	23.79	25,000
1924	Jan. 18, 1924	22.6	(26,000)	1955	Oct. 17, 1954	27.08	39,700
1925	Oct. 2, 1924	27.5	(47,000)	Apr. 16, 1955	22.95	22,800	
1926	Jan. 20, 1926	21.9	(24,000)	Aug. 19, 1955	27.94	38,500	
1927	Feb. 21, 1927	23.3	(29,000)	1956	Apr. 17, 1956	19.62	14,800
1928	Aug. 13, 1928	32.46	74,500	1957	Apr. 7, 1957	27.44	28,600
1929	Apr. 17, 1929	22.08	24,800	Sept. 18, 1957	23.22	23,900	
1930	Oct. 4, 1929	28.04	49,500	1958	May 8, 1958	24.72	28,200
1931	Aug. 24, 1931	21.4	(23,000)	1959	Dec. 31, 1958	25.74	33,800
1932	Mar. 8, 1932	24.2	(32,000)				
1933	Oct. 18, 1932	28.9	(54,000)				
1934	Mar. 5, 1934	22.8	(27,000)				
1935	Dec. 3, 1934	27.0	(44,000)				

a From information by Corps of Engineers.

665. Roanoke Creek at Saxe, Va.

Location.--Lat 36°55'49", long 78°39'56", on right bank at downstream side of highway bridge, 500 ft northwest of Saxe, Charlotte County, and 4 miles upstream from mouth.

Drainage area.--162 sq mi.

Gage.--Nonrecording, Aug. 22, 1946, to July 20, 1950; recording thereafter. Datum of gage is 322.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown prior to October 1950. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 16, 1940	25.7	-	1954	Mar. 2, 1954	9.54	1,410
1947	Sept. 25, 1947	11.40	2,790	1955	Apr. 15, 1955	11.63	2,950
1948	Feb. 15, 1948	11.44	2,790		Aug. 15, 1955	9.25	1,230
1949	Dec. 5, 1948	12.0	2,400		Aug. 18, 1955	13.56	4,710
1950	Nov. 1, 1949	11.90	3,190	1956	Apr. 13, 1956	8.52	870
1951	Dec. 5, 1950	8.70	960	1957	Apr. 10, 1957	9.13	1,170
1952	Dec. 22, 1951	10.80	2,310		Sept. 11, 1957	9.52	1,410
	Jan. 29, 1952	9.26	1,290		Sept. 18, 1957	11.16	2,630
	Mar. 25, 1952	9.92	1,670	1958	Nov. 26, 1957	9.14	1,170
	Apr. 28, 1952	9.94	1,670		Jan. 26, 1958	9.15	1,230
	Sept. 2, 1952	9.20	1,230		Feb. 28, 1958	9.44	1,350
1953	Nov. 21, 1952	11.33	2,710		May 7, 1958	9.76	1,600
1954	Jan. 24, 1954	9.08	1,170	1959	Dec. 30, 1958	10.37	2,020

a Backwater from Roanoke River.

670. Roanoke (Staunton) River near Clover, Va.

Location.--Lat 36°50'17", long 78°40'02", on left bank 150 ft downstream from bridge on U. S. Highway 360, 3½ miles downstream from Roanoke Creek, 6 miles east of Clover, Halifax County, and at mile 220.0.

Drainage area.--3,230 sq mi, approximately.

Gage.--Recording. Datum of gage is 302.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 70,000 cfs and extended above by logarithmic plotting on basis of slope-area measurement by Geological Survey, unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 23,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 4, 1929	22.90	52,300	1941	Apr. 6, 1941	14.18	16,900
1931	Aug. 24, 1931	15.44	19,600	1942	May 24, 1942	17.97	26,900
1932	Mar. 8, 1932	18.24	27,600		Aug. 10, 1942	18.33	28,000
1933	Oct. 19, 1932	23.19	54,300	1943	Dec. 31, 1942	17.30	24,600
	Dec. 30, 1932	17.62	25,600		Feb. 7, 1943	17.00	23,700
1934	Mar. 29, 1934	15.77	20,500		Apr. 21, 1943	17.10	24,000
1935	Dec. 3, 1934	21.95	46,500	1944	Sept. 20, 1944	27.50	77,000
	Jan. 25, 1935	19.33	31,900	1945	Oct. 23, 1944	18.40	28,400
	Mar. 14, 1935	16.75	23,200		Sept. 20, 1945	23.4	51,700
	Mar. 27, 1935	17.00	23,700	1946	Jan. 9, 1946	17.20	24,300
	Apr. 3, 1935	21.76	45,300	1947	Jan. 22, 1947	15.90	20,800
	Sept. 8, 1935	20.42	37,100	1948	Nov. 5, 1947	16.76	23,200
1936	Jan. 5, 1936	21.36	42,800		Feb. 16, 1948	20.20	35,800
	Jan. 21, 1936	23.04	53,000		Apr. 2, 1948	19.95	34,900
	Feb. 16, 1936	21.27	42,300		Aug. 6, 1948	17.38	25,000
	Mar. 19, 1936	23.48	56,400	1949	Dec. 5, 1948	-	62,000
1937	Jan. 5, 1937	-	48,000		Mar. 25, 1949	15.16	31,400
	Jan. 22, 1937	19.57	33,200		July 19, 1949	20.67	38,200
	Apr. 27, 1937	20.30	36,600	1950	June 2, 1950	18.97	30,600
	Sept. 1, 1937	-	28,000	1951	Dec. 9, 1950	15.98	21,000
1938	Oct. 21, 1937	-	70,000	1952	Dec. 23, 1951	19.65	34,000
	June 23, 1938	19.38	32,300		Jan. 30, 1952	16.80	23,200
	July 25, 1938	17.82	26,200		Apr. 29, 1952	17.34	24,600
1939	Feb. 12, 1939	16.98	23,700		Sept. 3, 1952	19.88	34,400
	Aug. 21, 1939	21.37	42,800				
1940	June 2, 1940	17.97	26,900				
	Aug. 16, 1940	37.15	160,000				

685. Dan River near Francisco, N. C.

Location.--Lat 36°30'53", long 80°18'11", on left bank 200 ft upstream from bridge on State Highway 704, an eighth of a mile downstream from Georges Mill, 3 miles east of Francisco, Stokes County, and 7.9 miles downstream from Little Dan River.

Drainage area.--124 sq mi.

Gage.--Nonrecording Aug. 16, 1924, to Sept. 30, 1926, May 1, 1927, to Nov. 14, 1929; recording thereafter. Altitude of gage is 830 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,500 cfs and extended above.

Remarks.--Talbot and Townes Reservoirs, 28 miles above station and having a combined capacity of 416,000,000 cu ft, were completed in 1938. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	-	a15	b16,000	1941	July 19, 1941	4.87	2,250
1925	Dec. 8, 1924	10.0	b8,700	1942	June 11, 1942	5.57	3,050
1926	Jan. 18, 1926	5.0	b2,720		Sept. 6, 1942	8.62	6,590
1928	Aug. 11, 1928	5.4	3,140	1943	June 8, 1943	4.70	2,150
	Aug. 16, 1928	11.0	9,850		July 13, 1943	4.95	2,400
	Sept. 6, 1928	5.5	3,250	1944	Sept. 30, 1944	4.07	1,530
	Sept. 19, 1928	4.3	2,000	1945	Sept. 17, 1945	5.50	2,950
1929	May 2, 1929	4.4	2,100	1946	Jan. 7, 1946	4.42	1,880
	Aug. 18, 1929	5.45	3,140	1947	June 14, 1947	9.40	7,630
1930	Oct. 2, 1929	7.10	5,060	1948	May 12, 1948	4.26	1,740
	Oct. 22, 1929	6.8	4,710	1949	Aug. 28, 1949	6.22	b3,690
	Mar. 7, 1930	5.6	3,360	1950	May 27, 1950	4.50	1,960
1931	Aug. 22, 1931	5.09	2,820	1951	Dec. 7, 1950	5.59	3,050
1932	Mar. 6, 1932	4.60	2,300	1952	Dec. 21, 1951	5.97	3,470
1933	Oct. 17, 1932	7.46	5,520		Mar. 11, 1952	4.76	2,200
	Nov. 1, 1932	5.75	3,470		Mar. 23, 1952	5.19	2,650
1934	Mar. 27, 1934	5.29	2,750		Aug. 2, 1952	4.54	2,010
	Sept. 19, 1934	4.46	2,050	1953	Feb. 21, 1953	5.83	3,250
	Sept. 29, 1934	5.63	3,190		Mar. 23, 1953	7.72	5,440
1935	Oct. 6, 1934	4.91	2,450		June 17, 1953	4.70	2,150
	Dec. 1, 1934	6.05	3,640	1954	Jan. 22, 1954	5.10	2,400
	Mar. 12, 1935	4.63	2,150		Feb. 21, 1954	5.70	3,150
1936	Jan. 3, 1936	5.94	3,520	1955	Oct. 15, 1954	6.20	3,690
	Jan. 19, 1936	5.32	2,860		Apr. 14, 1955	6.75	4,360
	Mar. 17, 1936	4.52	2,050		June 11, 1955	7.82	5,560
	Apr. 6, 1936	6.14	3,760		July 24, 1955	4.55	2,010
1937	Oct. 16, 1936	5.26	2,860	1956	Apr. 16, 1956	5.60	3,050
	Jan. 19, 1937	4.72	2,250	1957	Apr. 5, 1957	5.71	3,150
	July 17, 1937	6.22	3,880		June 5, 1957	5.25	2,750
	Aug. 25, 1937	6.03	3,640		June 14, 1957	6.07	3,470
1938	Oct. 5, 1937	5.78	3,410		June 17, 1957	6.10	3,580
	Oct. 19, 1937	12.45	12,400		Sept. 16, 1957	8.60	6,590
	June 27, 1938	4.56	2,100	1958	Nov. 19, 1957	5.75	3,250
	July 24, 1938	5.00	2,550		May 6, 1958	4.84	2,300
1939	June 1, 1939	4.61	2,000		Aug. 13, 1958	4.70	2,150
	Aug. 18, 1939	10.15	8,670	1959	Dec. 28, 1958	5.70	3,150
1940	July 30, 1940	5.30	2,750		Sept. 30, 1959	7.15	4,840
	Aug. 14, 1940	9.40	7,630				
	Aug. 30, 1940	5.05	2,500				
1941	July 4, 1941	5.11	2,550				

a From information by local residents.

b Annual peak only.

686.1. Vade Mecum Creek tributary near Moores Springs, N. C.

Location.--Lat 36°24', long 80°20', at culvert on State Highway 66, 2 miles upstream from mouth, and 2½ miles west of Moores Springs, Stokes County.

Drainage area.--0.31 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by culvert measurement and theoretical culvert computations.

Remarks.--Peak stages below 18.0 ft are not recorded. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	-	-	(a)	1957	Apr. 4, 1957	20.22	163
1955	Apr. 14, 1955	20.28	166	1958	Nov. 25, 1957	18.71	78
1956	-	-	(a)	1959	Aug. 1, 1959	18.93	88

a Peak stage below gage, discharge less than 45 cfs.

686.6. Little Snow Creek near Lawsonville, N. C.

Location.--Lat 36°28', long 80°10', at bridge three-quarters of a mile upstream from mouth and 3½ miles southeast of Lawsonville, Stokes County.

Drainage area.--5.44 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurement below 220 cfs, by slope-area measurements at 467 and 626 cfs, and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 1954	20.46	610	1957	Apr. 5, 1957	20.69	626
1955	July 1955	22.01	810	1958	May 1958	15.93	520
1956	Apr. 15, 1956	19.42	445	1959	Sept. 30, 1959	15.79	500

690.3. Belews Creek near Kernersville, N. C.

Location.--Lat 36°12'30", long 80°04'30", at bridge on U. S. Highway 158, 4.7 miles upstream from East Belews Creek, and 6 miles north of Kernersville, Forsyth County.

Drainage area.--14.9 sq mi.

Gage.--Crest-stage gage. Datum of gage is 225.75 mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 460 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	22.71	760	1957	February 1957	22.61	700
1955	Oct. 15, 1954	23.98	1,760	1958	Apr. 28, 1958	22.50	630
1956	September 1956	22.76	780	1959	Sept. 7, 1959	23.75	1,550

700. North Mayo River near Spencer, Va.

Location.--Lat 36°34'05", long 79°59'15", on left bank 800 ft downstream from highway bridge at Moores Mill, 2 miles downstream from Horse Pasture Creek, and 4 miles southwest of Spencer, Henry County.

Drainage area.--108 sq mi.

Gage.--Nonrecording prior to Sept. 28, 1936; recording thereafter. At site 800 ft upstream at datum 1.50 ft higher Oct. 13, 1928, to Jan. 22, 1936. Datum of gage is 730.94 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs since 1936 and extended above by logarithmic plotting on basis of velocity-area study. Relation prior to 1936 extended on basis of difference in ratings at 3.4 ft.

Bankfull stage.--7 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown prior to October 1936. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 28, 1929	5.8	1,660	1948	Oct. 9, 1947	15.80	17,200
1930	Oct. 2, 1929	9.0	4,600		Apr. 1, 1948	4.90	1,510
1931	May 21, 1931	6.2	1,980	1949	Nov. 29, 1948	5.17	1,680
1932	Mar. 6, 1932	7.2	2,840		Dec. 4, 1948	5.79	2,130
1933	Oct. 17, 1932	11.0	7,200		Jan. 6, 1949	4.91	1,510
1934	Mar. 29, 1934	5.5	1,450		May 17, 1949	4.85	1,480
1935	Jan. 23, 1935	5.26	1,310		June 29, 1949	6.32	2,500
					Aug. 29, 1949	4.97	1,540
1936	Jan. 19, 1936	7.6	3,200				
1937	Oct. 17, 1936	6.32	2,500	1950	Sept. 10, 1950	4.68	1,390
	Dec. 31, 1936	4.92	1,500				
	Jan. 3, 1937	6.95	3,060	1951	Dec. 4, 1950	4.97	1,540
1938	Oct. 4, 1937	6.06	2,340		Feb. 7, 1951	5.17	1,680
	Oct. 19, 1937	14.33	14,300	1952	Dec. 21, 1951	6.05	2,270
1939	Feb. 11, 1939	6.00	2,260		Feb. 4, 1952	4.83	1,480
	Aug. 19, 1939	7.75	3,820		Mar. 11, 1952	5.49	1,920
1940	May 31, 1940	6.57	2,740	1953	Feb. 21, 1953	5.14	1,680
	July 30, 1940	7.66	3,720		Mar. 24, 1953	6.28	2,500
	Aug. 14, 1940	10.11	6,800	1954	Jan. 22, 1954	5.88	2,200
1941	Dec. 29, 1940	4.45	1,180	1955	Oct. 15, 1954	6.15	2,420
1942	May 16, 1942	7.30	3,330		Feb. 7, 1955	5.34	1,780
	May 22, 1942	6.08	2,340		Apr. 14, 1955	5.16	1,680
	June 10, 1942	8.75	4,980	1956	Apr. 16, 1956	5.16	1,680
	Aug. 17, 1942	4.92	1,510		Sept. 27, 1956	5.13	1,680
	Sept. 7, 1942	6.01	2,270	1957	Apr. 5, 1957	6.39	2,580
1943	Apr. 19, 1943	6.48	2,660		Sept. 17, 1957	9.77	6,350
	June 8, 1943	6.37	2,580	1958	Nov. 19, 1957	6.42	2,580
1944	Sept. 19, 1944	4.85	1,480		Nov. 25, 1957	4.97	1,580
	Sept. 30, 1944	6.38	2,580		Mar. 31, 1958	4.70	1,430
1945	Oct. 21, 1944	7.06	3,150		Apr. 23, 1958	4.82	1,490
	Sept. 18, 1945	10.4	7,280		Apr. 28, 1958	4.98	1,610
1946	Jan. 8, 1946	5.38	1,850	1959	Dec. 29, 1958	7.11	3,150
1947	Jan. 20, 1947	4.86	1,480		Sept. 6, 1959	5.03	1,600

705. Mayo River near Price, N. C.

Location.--Lat 36°32'10", long 79°59'30", on right bank 300 ft downstream from Anglins Bridge, half a mile downstream from confluence of North and South Mayo Rivers, three-quarters of a mile downstream from Virginia-North Carolina State line, and 4 miles west of Price, Rockingham County.

Drainage area.--260 sq mi.

Gage.--Nonrecording July 13, 1929, to Oct. 28, 1929; recording thereafter. Datum of gage is 689.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	10.2	15,900	1944	Sept. 30, 1944	6.85	6,310
1931	Aug. 22, 1931	5.35	3,960	1945	Oct. 20, 1944	6.44	5,470
1932	Mar. 6, 1932	7.01	7,300	1946	Sept. 18, 1945	10.64	17,000
	Mar. 28, 1932	5.41	4,050		Jan. 8, 1946	5.53	3,900
1933	Oct. 17, 1932	9.97	15,600	1947	Jan. 20, 1947	5.08	3,190
	Nov. 1, 1932	5.94	4,960	1948	Oct. 10, 1947	11.59	20,800
1934	Mar. 4, 1934	6.35	5,550	1949	Dec. 4, 1948	5.54	3,930
	Sept. 16, 1934	6.15	5,350		June 29, 1949	5.55	3,930
1935	Dec. 1, 1934	5.07	3,560	July 12, 1949	5.33	3,620	
	Mar. 13, 1935	5.32	3,880	Aug. 29, 1949	6.31	5,270	
1936	Jan. 3, 1936	6.88	7,080	1950	May 15, 1950	4.50	2,460
	Jan. 19, 1936	8.52	11,200	1951	Dec. 7, 1950	5.37	3,620
	Feb. 14, 1936	5.29	3,880		Feb. 7, 1951	5.82	4,350
	Mar. 17, 1936	6.23	5,550	1952	Dec. 21, 1951	5.75	6,310
	Apr. 6, 1936	6.46	6,200		Feb. 4, 1952	5.28	3,550
Oct. 17, 1936	6.04	5,150	Mar. 11, 1952		5.15	5,080	
1937	Dec. 31, 1936	5.37	3,960	Mar. 23, 1952	5.39	3,700	
	Jan. 3, 1937	7.28	8,020	Sept. 1, 1952	5.98	4,710	
	Jan. 19, 1937	5.45	4,140	1953	Feb. 21, 1953	6.01	4,710
	Aug. 25, 1937	7.02	7,300		Mar. 24, 1953	7.65	8,130
	1938	Oct. 5, 1937	6.77	6,860	1954	Jan. 22, 1954	6.52	5,680
Oct. 19, 1937		14.00	30,000	1955		Oct. 15, 1954	7.44	6,960
July 22, 1938		5.11	3,560		Feb. 6, 1955	5.75	4,150
1939	Feb. 11, 1939	6.41	5,980	Apr. 14, 1955	6.92	6,000	
	Aug. 18, 1939	8.88	12,300	May 24, 1955	5.50	3,700	
1940	May 30, 1940	5.87	4,960	1956	Apr. 16, 1956	5.95	4,450
	July 30, 1940	7.35	8,260		Sept. 27, 1956	5.67	4,000
	Aug. 14, 1940	11.00	19,000	1957	Apr. 5, 1957	6.47	5,280
1941	July 17, 1941	5.18	3,720		Sept. 17, 1957	10.00	13,200
	July 19, 1941	5.10	3,560	1958	Nov. 25, 1957	5.57	3,780
	May 16, 1942	7.14	7,540		Apr. 28, 1958	5.87	4,230
	May 22, 1942	6.80	6,860	1959	Dec. 29, 1958	7.62	7,360
	June 11, 1942	7.62	8,760		Sept. 6, 1959	6.60	5,460
Aug. 17, 1942	8.15	10,400	Sept. 30, 1959		9.05	10,500	
1943	Sept. 7, 1942	6.64	6,420				
	Apr. 19, 1943	6.45	5,470				
	June 8, 1943	7.70	8,370				
	July 10, 1943	6.92	6,530				

708.1. Jacobs Creek near Wentworth, N. C.

Location.--Lat 36°21', long 79°53', at bridge 3½ miles upstream from mouth, and 7¼ miles southwest of Wentworth, Rockingham County.

Drainage area.--16.2 sq mi.

Gage.--Crest stage gage.

Stage-discharge relation.--Defined by current-meter measurements between 630 and 920 cfs and by slope-area measurement at 5,290 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	23.80	700	1957	Mar. 25, 1957	25.39	1,050
1955	Oct. 15, 1954	28.94	5,290	1958	Apr. 28, 1958	25.39	1,050
				1959	Dec. 28, 1958	22.47	475
1956	September 1956	21.87	380				

710. Dan River near Wentworth, N. C.

Location.--Lat 36°25', long 79°50', on right bank 600 ft downstream from Settles Bridge, 3½ miles northwest of Wentworth, Rockingham County, and 7½ miles downstream from Mayo River.

Drainage area.--1,050 sq mi, approximately.

Gage.--Altitude of gage is 518 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended above by slope-area measurement of peak flow at gage height 26.9 ft and runoff comparisons.

Remarks.--Base for partial-duration series, 12,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	-	a34.9	-	1949	July 12, 1949	18.92	16,000
1937	-	b29.8	-		Aug. 29, 1949	17.82	14,100
1940	May 31, 1940	16.0	12,300	1950	Oct. 31, 1949	15.00	10,600
	July 31, 1940	16.58	13,100	1951	Feb. 8, 1951	16.44	12,200
	Aug. 15, 1940	26.9	50,200	1952	Dec. 22, 1951	19.09	16,400
1941	July 17, 1941	19.20	17,000		Mar. 12, 1952	18.17	14,800
1942	May 16, 1942	16.84	13,400		Mar. 25, 1952	17.82	14,100
	May 22, 1942	20.04	18,600		Sept. 1, 1952	16.50	12,400
	June 11, 1942	19.32	17,200	1953	Feb. 22, 1953	17.95	14,400
	Sept. 7, 1942	16.72	13,200		Mar. 24, 1953	20.47	19,600
1943	Apr. 20, 1943	19.76	18,100	1954	Jan. 23, 1954	20.75	19,700
	July 10, 1943	18.13	15,300	1955	Oct. 16, 1954	22.75	26,500
1944	Feb. 18, 1944	16.28	12,700		Feb. 7, 1955	18.50	15,200
	Mar. 30, 1944	16.63	13,100		Apr. 15, 1955	20.64	19,200
1945	Oct. 1, 1944	23.17	28,400	1956	Apr. 16, 1956	18.18	14,800
	Sept. 18, 1945	27.78	56,800		Sept. 27, 1956	17.20	13,300
1946	Jan. 8, 1946	16.45	12,800	1957	Feb. 1, 1957	16.82	12,600
1947	Jan. 20, 1947	18.42	15,700		Apr. 6, 1957	20.11	16,800
	Sept. 25, 1947	18.56	16,000		Apr. 9, 1957	16.91	12,800
1948	Oct. 10, 1947	21.47	22,400		Sept. 18, 1957	22.38	21,500
	Apr. 1, 1948	17.10	13,800	1958	Nov. 20, 1957	20.90	18,200
1949	Nov. 29, 1948	17.76	14,100		Nov. 26, 1957	18.50	14,700
	Dec. 4, 1948	17.08	13,100		Apr. 29, 1958	20.53	17,500
	Jan. 6, 1949	16.70	12,600	1959	Dec. 29, 1958	20.90	19,900
	June 30, 1949	16.34	12,100		Sept. 7, 1959	18.20	14,800

a From information by North Carolina State Highway Commission.

b From information by local residents.

713. Nicholas Creek near Ferrum, Va.

Location.--Lat 36°52', long 80°03', at bridge on State Highway 605, 5 miles northwest of Henry and 5 miles southwest of Ferrum, Franklin County.

Drainage area.--14 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 1,100 ft (from topographic map).

Stage-discharge relation.--Not defined between 15 cfs and 11,800 cfs (contracted-opening measurement).

Bankfull stage.--7 ft.

Remarks.--Only annual peak stages are shown, also included is 1949 annual peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 28, 1949	13.4	11,800	1955	Mar. 6, 1955	7.41	-
1950	-	(a)	-	1956	April 1956	6.10	-
1951	-	(a)	-	1957	April 1957	6.97	-
1952	Sept. 1, 1952	9.55	-	1958	November 1957	5.22	-
1953	February 1953	8.49	-	1959	Dec. 28, 1958	9.10	-
1954	January 1954	3.74	-				

a Peak stage did not reach bottom of gage.

720. Smith River near Philpott, Va.

Location.--Lat 36°46'50", long 80°01'30", on left bank 900 ft downstream from Philpott Dam, 1.5 miles southwest of Philpott, Henry County, and 11.7 miles upstream from Reed Creek.

Drainage area.--212 sq mi.

Gage.--Recording. Prior to Oct. 8, 1952, at site 1.9 miles downstream at different datum. Datum of gage is 804.27 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 9,700 cfs and extended above on basis of slope-area measurements at gage heights 18.2 and 20.3 ft.

Remarks.--Flow regulated since August 1950 by Philpott Reservoir (usable capacity, 145,200 acre-ft). Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 14, 1947	11.34	5,710	1950	Sept. 10, 1950	15.4	9,980
1948	Oct. 9, 1947	13.15	7,600	1951	Dec. 7, 1950	15.00	9,500
	May 13, 1948	8.89	3,720		Feb. 7, 1951	9.20	3,960
	July 15, 1948	9.67	4,360	1952	Dec. 4, 1951	8.44	3,300
1949	Nov. 28, 1948	8.14	3,030	1953	Dec. 13, 1952	8.90	4,030
	Dec. 4, 1948	11.60	6,000		1954	Nov. 10, 1953	5.00	1,300
	Mar. 23, 1949	18.24	13,700	1955		June 28, 1955	5.60	1,720
	Apr. 13, 1949	9.20	3,960		1956	July 17, 1956	5.48	1,650
	May 2, 1949	9.51	4,200	1957		June 7, 1957	5.03	1,340
	June 18, 1949	9.40	4,120		1958	Feb. 28, 1958	8.36	4,920
	June 29, 1949	20.3	17,000	1959		Sept. 30, 1959	5.27	1,560
	July 11, 1949	10.42	4,920				
	July 14, 1949	11.56	6,000				
	July 16, 1949	9.92	4,520				
	July 20, 1949	9.26	4,040				
	Aug. 29, 1949	13.35	7,800				
Aug. 31, 1949	9.72	4,360					
1950	May 31, 1950	15.16	9,740				

a Caused by opening gates of Philpott Dam.

725. Smith River at Bassett, Va.

Location.--Lat 36°46'15", long 80°00'00", on left bank 5 ft upstream from highway bridge at north edge of North Bassett, 1.0 mile northwest of Bassett, Henry County, 3.0 miles downstream from Town Creek, and 5.6 miles upstream from Reed Creek.

Drainage area.--253 sq mi.

Gage.--Recording. Datum of gage is 753.09 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 24,000 cfs and extended above by logarithmic plotting and on basis of record for station "at Martinsville."

Bankfull stage.--8 ft.

Remarks.--Flow regulated since August 1950 by Philpott Reservoir (usable capacity, 145,200 acre-ft). Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 19, 1937	a22.9	38,200	1948	July 15, 1948	6.18	4,900
1939	Aug. 18, 1939	16.93	23,300	1949	Dec. 4, 1948	8.42	8,240
1940	Apr. 20, 1940	8.36	6,500		Mar. 23, 1949	13.22	16,400
	May 30, 1940	8.95	7,410		May 2, 1949	6.56	5,500
	Aug. 14, 1940	18.28	26,600		June 18, 1949	6.60	5,500
	Aug. 16, 1940	8.15	6,210		June 29, 1949	16.00	21,600
					July 11, 1949	6.53	5,350
1941	Apr. 5, 1941	7.10	4,730		July 14, 1949	7.07	6,250
	July 4, 1941	7.63	5,380		July 16, 1949	6.18	4,900
	July 8, 1941	7.29	4,990		Aug. 29, 1949	8.23	7,920
					Aug. 31, 1949	5.96	4,600
1942	May 16, 1942	7.93	5,790	1950	May 31, 1950	12.02	14,200
	May 22, 1942	8.45	6,500		Sept. 10, 1950	13.04	b16,000
	June 11, 1942	9.15	7,730				
	Sept. 7, 1942	9.13	7,570	1951	Dec. 7, 1950	11.2	b12,800
1943	Dec. 30, 1942	7.66	5,510	1952	Dec. 4, 1951	5.58	4,000
	Apr. 19, 1943	8.52	6,650				
	May 26, 1943	9.50	8,210	1953	Dec. 13, 1952	4.50	2,470
	July 9, 1943	9.40	8,050				
	July 10, 1943	15.00	19,000	1954	Jan. 22, 1954	4.43	2,410
1944	Sept. 29, 1944	7.21	4,860	1955	Oct. 15, 1954	4.81	2,850
1945	Oct. 20, 1944	9.25	7,730	1956	July 17, 1956	5.50	2,930
	Sept. 18, 1945	15.10	19,200	1957	Sept. 17, 1957	6.49	5,350
1946	Jan. 7, 1946	8.34	6,350	1958	Nov. 19, 1957	6.41	5,200
1947	June 14, 1947	6.95	6,100	1959	Sept. 30, 1959	7.00	6,100
	Aug. 8, 1947	6.02	4,600				
1948	Oct. 9, 1947	8.58	8,560				

a Maximum stage known; from information by local residents.

b Possibly affected by regulation of Philpott Reservoir.

ROANOKE RIVER BASIN

730. Smith River at Martinsville, Va.

Location.--Lat 36°39'45", long 79°52'55", on right bank 800 ft downstream from bridge on U. S. Highway 58 and 220, at south edge of Martinsville, Henry County, and 5.0 miles downstream from Beaver Creek.

Drainage area.--374 sq mi.

Gage.--Recording. Datum of gage is 657.22 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended above on basis of flow-over-dam measurements at gage heights 16.76 and 21.50 ft.

Bankfull stage.--8 ft.

Remarks.--All peaks are subject to regulation by powerplant 1,000 ft upstream and by manipulation of floodgates. Additional regulation since August 1950 by Philpott Reservoir (usable capacity, 145,200 acre-ft). Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	12.27	15,200	1945	Sept. 18, 1945	15.3	21,600
1931	Aug. 22, 1931	7.70	6,620	1946	Jan. 7, 1946	9.32	9,510
1932	Mar. 6, 1932	6.60	5,660	1947	June 14, 1947	7.80	7,080
1933	Oct. 17, 1932	17.50	27,200	1948	Oct. 9, 1947	12.00	14,400
1934	Sept. 16, 1934	8.70	8,520	1949	June 29, 1949	12.72	15,800
1935	Sept. 6, 1935	8.43	8,040	1950	Sept. 10, 1950	14.5	19,700
1936	Jan. 3, 1936	11.75	14,000	1951	Dec. 7, 1950	10.95	12,500
1937	Oct. 17, 1936	11.57	13,600	1952	Sept. 1, 1952	7.36	6,440
1938	Oct. 19, 1937	21.50	39,000	1953	Mar. 24, 1953	6.37	4,880
1939	Aug. 18, 1939	16.76	25,400	1954	Jan. 22, 1954	7.14	5,960
1940	Aug. 14, 1940	19.50	34,200	1955	Oct. 15, 1954	8.98	9,000
1941	July 8, 1941	10.10	10,900	1956	Apr. 16, 1956	6.06	4,430
1942	June 10, 1942	11.38	14,200	1957	Sept. 17, 1957	10.10	10,900
1943	July 10, 1943	12.48	16,600	1958	Nov. 19, 1957	7.94	7,240
1944	Sept. 30, 1944	7.95	7,600	1959	Sept. 30, 1959	9.30	9,510

735. Leatherwood Creek near Old Liberty, Va.

Location.--Lat 36°38'10", long 79°47'30", at highway bridge 1.7 miles above mouth, 3 miles southwest of Old Liberty, Henry County, and 6 miles southeast of Martinsville.

Drainage area.--68 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 627.95 ft above mean sea level, adjustment unknown.

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs and extended above on basis of logarithmic plotting and velocity-area study.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Leatherwood Creek near Old Liberty, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Nov. 13, 1925	8.10	1,040	1931	May 23, 1931	5.7	616
1927	Dec. 29, 1926	4.90	481	1932	Jan. 9, 1932	5.1	511
1928	Aug. 11, 1928	14.37	2,970	1933	Oct. 18, 1932	8.0	1,090
1929	July 14, 1929	6.1	690	1934	Mar. 4, 1934	7.70	al,000
1930	Oct. 2, 1929	5.44	562				

a Estimated daily mean.

740. Smith River at Spray, N. C.

Location--Lat 36°31'50", long 79°46'10", on right bank 0.9 mile south of Virginia-North Carolina State line, 1 mile downstream from Stuart Creek, and 1 mile north of Spray, Rockingham County.

Drainage area--538 sq mi.

Gage--Recording. Datum of gage is 539.55 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 12,000 cfs and extended to 45,600 cfs on basis of flow-over-dam measurement $1\frac{1}{2}$ miles downstream.

Remarks--Flow regulated since August 1950 by Philpott Reservoir (usable capacity, 145,200 acre-ft). Base for partial-duration series, 8,000 cfs. Only annual peaks are shown subsequent to 1950 owing to regulation.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 31, 1940	10.72	13,000	1948	Oct. 10, 1947	13.13	20,400
	July 30, 1940	10.12	11,400		Apr. 1, 1948	8.84	8,550
	Aug. 15, 1940	19.28	45,600	1949	Dec. 4, 1948	10.80	13,200
1941	July 8, 1941	9.83	10,700		Mar. 23, 1949	10.96	13,700
	1942	May 22, 1942	11.25		13,900	June 29, 1949	11.48	15,100
June 11, 1942		11.07	13,600		Aug. 29, 1949	9.54	9,950
Sept. 7, 1942		8.98	8,700	1950	May 31, 1950	10.31	11,100
1943	Dec. 30, 1942	8.62	8,150		Sept. 10, 1950	13.80	21,400
	Apr. 19, 1943	11.38	14,800	1951	Dec. 8, 1950	10.70	12,000
	July 10, 1943	11.81	15,700		Dec. 21, 1951	8.72	7,870
1944	Sept. 30, 1944	9.59	10,200	1953	Mar. 24, 1953	7.95	6,750
		1954	Jan. 22, 1954	9.16	8,800		
		1955	Oct. 15, 1954	10.78	12,200		
1945	Oct. 21, 1944	10.13	11,700	1956	Apr. 16, 1956	7.16	5,500
	Sept. 18, 1945	15.32	28,200		Sept. 17, 1957	10.58	11,800
1946	Jan. 8, 1946	10.15	11,700	1958	Nov. 19, 1957	9.68	9,800
		1959	Sept. 30, 1959	10.80	12,200		
1947	June 14, 1947	7.70	6,440				

745. Sandy River near Danville, Va.

Location--Lat 36°37'10", long 79°30'10", on right bank 200 ft downstream from Hickory Forest Creek, 400 ft upstream from bridge on road between Callahans store and Mount Cross, 5.5 miles northwest of western corporate limits of Danville, Pittsylvania County, and 5.8 miles upstream from mouth.

Drainage area--113 sq mi.

Gage--Recording. Prior to June 26, 1942, at site 1,200 ft downstream at datum 5.57 ft lower. Datum of gage is 460.38 ft above mean sea level, unadjusted.

Stage-discharge relation--Defined by current-meter measurements below 3,600 cfs and extended above by logarithmic plotting.

Bankfull stage--7 ft.

Remarks--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 1,500 cfs.

ROANOKE RIVER BASIN

Peak stages and discharges of Sandy River near Danville, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	-	1,000	1947	Jan. 20, 1947	5.48	2,640
1931	Aug. 22, 1931	9.45	4,590		Apr. 16, 1947	4.44	1,530
1932	Mar. 6, 1932	8.69	3,990		Sept. 24, 1947	5.83	3,110
1933	Oct. 17, 1932	9.29	4,500	1948	Oct. 10, 1947	5.84	3,110
	Aug. 2, 1933	5.58	1,930		Feb. 14, 1948	4.43	1,530
1934	Mar. 4, 1934	7.18	2,890		Apr. 1, 1948	5.81	3,180
	Sept. 7, 1934	11.60	7,140	1949	Nov. 28, 1948	5.24	2,330
	Sept. 16, 1934	7.13	2,830		July 11, 1949	4.62	1,660
1935	Dec. 1, 1934	9.76	4,980	1950	Oct. 31, 1949	5.56	2,700
	Jan. 23, 1935	4.94	1,560		July 14, 1950	6.07	3,400
	Mar. 13, 1935	5.69	1,990	1951	June 18, 1951	6.18	3,630
1936	Jan. 2, 1936	5.74	1,990	1952	Dec. 21, 1951	5.16	2,220
	Jan. 19, 1936	10.95	6,330		Feb. 3, 1952	4.90	1,950
	Feb. 14, 1936	6.01	2,170		Mar. 11, 1952	4.92	1,950
	Mar. 17, 1936	9.73	4,880		Mar. 24, 1952	4.45	1,530
1937	Jan. 3, 1937	7.58	3,150		Aug. 31, 1952	5.30	2,270
	Jan. 19, 1937	5.40	1,500	1953	Mar. 24, 1953	4.18	1,330
	Aug. 25, 1937	9.20	4,410	1954	Jan. 22, 1954	5.60	2,840
1938	Oct. 20, 1937	9.98	5,180		June 16, 1954	5.41	2,510
	Oct. 27, 1937	8.04	3,450	1955	Oct. 15, 1954	8.65	7,830
	June 21, 1938	5.64	1,690		Feb. 6, 1955	4.75	1,800
1939	Aug. 6, 1939	7.01	2,700		Apr. 25, 1955	4.52	1,570
	Aug. 18, 1939	7.40	3,000		July 11, 1955	5.46	2,580
1940	Aug. 14, 1940	17.38	23,000		Aug. 14, 1955	4.70	1,750
1941	July 19, 1941	5.42	1,650		Aug. 18, 1955	6.13	3,560
1942	May 15, 1942	7.11	2,780	1956	Mar. 16, 1956	4.52	1,570
	May 22, 1942	6.72	2,480	1957	Oct. 22, 1956	4.52	1,570
	Aug. 17, 1942	5.24	2,300		Dec. 15, 1956	4.97	2,050
1943	Dec. 30, 1942	4.44	1,570		Apr. 5, 1957	4.88	1,950
	Apr. 19, 1943	5.33	2,400		Apr. 8, 1957	5.94	3,260
1944	Apr. 24, 1944	4.47	1,530		Sept. 17, 1957	5.18	2,270
	May 7, 1944	8.4	7,450	1958	Nov. 19, 1957	6.52	4,110
	Sept. 19, 1944	10.51	11,800		Feb. 27, 1958	4.70	1,750
	Sept. 30, 1944	6.30	3,790		Mar. 31, 1958	4.44	1,530
1945	Jan. 1, 1945	5.14	2,120		Apr. 28, 1958	5.30	2,390
	Sept. 17, 1945	6.58	4,270		May 6, 1958	4.43	1,530
1946	Jan. 8, 1946	5.04	2,100	1959	July 18, 1958	4.88	1,950
	Feb. 10, 1946	4.50	1,570		Dec. 29, 1958	6.56	4,270
					July 14, 1959	5.46	2,580
					Sept. 30, 1959	4.43	1,520

750. Dan River at Danville, Va.

Location.--Lat 36°35'15", long 79°22'55", on left bank 50 ft downstream from Southern Railway bridge in Danville, Pittsylvania County, 1,000 ft upstream from Fall Creek, and at mile 62.7.

Drainage area.--2,050 sq mi, approximately.

Gage.--Nonrecording July 4, 1891, to Aug. 14, 1934, at site half a mile upstream at datum 3.5 ft higher; recording thereafter. Datum of gage is 379.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Since October 1934, defined by current-meter measurements below 56,000 cfs and extended above by logarithmic plotting on basis of flow-over-dam measurement of peak flow.

Bankfull stage.--12 ft.

Remarks.--Gage-height records prior to October 1934 furnished by U. S. Weather Bureau. Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft). Only annual peaks are shown prior to October 1934. Base for partial-duration series, 22,000 cfs.

ROANOKE RIVER BASIN

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Peak stages and discharges of Dan River at Danville, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1892	Mar. 9, 1892	4.8	-	1937	Jan. 3, 1937	12.86	30,600
1893	Sept. 13, 1893	13.0	-		Jan. 20, 1937	10.98	23,900
1894	Oct. 14, 1893	5.8	-		Aug. 26, 1937	13.45	31,600
1895	Mar. 3, 1895	5.5	-	1938	Oct. 6, 1937	11.74	26,300
1896	July 10, 1896	10.1	-		Oct. 21, 1937	18.34	54,100
1897	Mar. 6, 1897	3.8	-	1939	Aug. 20, 1939	12.90	30,600
1898	May 23, 1898	4.6	-	1940	Aug. 15, 1940	20.96	75,000
1899	Mar. 20, 1899	13.1	-	1941	July 18, 1941	9.60	19,300
1900	Mar. 2, 1900	5.0	-	1942	May 23, 1942	11.39	25,600
1901	May 23, 1901	10.6	-	1943	Apr. 20, 1943	all 11.95	b25,000
1902	June 17, 1902	6.5	-		July 11, 1943	10.78	23,200
1903	Feb. 17, 1903	8.6	-	1944	Sept. 19, 1944	12.77	30,300
	Mar. 23, 1903	8.6	-		Sept. 30, 1944	13.08	31,400
1904	Aug. 10, 1904	4.4	-	1945	Sept. 19, 1945	19.0	59,400
1905	Feb. 21, 1905	4.6	-	1946	Jan. 8, 1946	10.46	22,200
1906	Jan. 4, 1906	7.7	-	1947	Jan. 21, 1947	10.54	22,200
1907	June 2, 1907	6.8	-		Sept. 25, 1947	12.95	30,700
1908	Aug. 26, 1908	9.5	-	1948	Oct. 11, 1947	13.96	34,400
1909	May 22, 1909	9.1	-		Apr. 1, 1948	11.70	26,200
1910	Mar. 1, 1910	6.4	-	1949	Nov. 29, 1948	10.90	23,500
1911	Jan. 4, 1911	4.6	-		Dec. 4, 1948	10.75	23,200
1912	Mar. 15 or 16	17.0	-		June 30, 1949	10.57	22,500
1913	Mar. 15, 1913	12.4	-	1950	Sept. 11, 1950	9.74	19,300
1914	Nov. 9, 1913	7.1	-	1951	June 18, 1951	10.10	20,900
1915	Jan. 8, 1915	9.8	-	1952	Dec. 22, 1951	10.89	22,900
1916	Feb. 3, 1916	9.2	-		Mar. 25, 1952	10.92	23,500
1917	Mar. 5, 1917	8.4	-	1953	Mar. 25, 1953	10.36	21,900
1918	Apr. 21, 1918	7.5	-	1954	Jan. 23, 1954	11.53	25,500
1919	July 21, 1919	10.0	-	1955	Oct. 16, 1954	15.20	39,200
1920	Feb. 4, 1920	7.6	-		Apr. 15, 1955	11.37	25,200
1921	Feb. 11, 1921	7.3	-		Aug. 18, 1955	10.56	22,500
1922	May 19, 1922	6.6	-	1956	Apr. 17, 1956	9.34	18,400
1923	Mar. 18, 1923	12.5	-	1957	Apr. 6, 1957	10.67	22,900
1924	Jan. 17, 1924	8.9	-		Sept. 19, 1957	11.82	25,500
1925	Oct. 1, 1924	10.4	-	1958	Nov. 20, 1957	a12.18	b25,500
1926	Jan. 19, 1926	6.5	-		Nov. 26, 1957	11.25	24,100
1927	Feb. 20, 1927	5.1	-		Apr. 29, 1958	12.02	27,000
1928	Aug. 12, 1928	12.7	-	1959	Dec. 29, 1958	13.43	32,100
1929	Mar. 1, 1929	6.7	-				
1930	Oct. 3, 1929	11.6	-				
1931	Aug. 23, 1931	5.9	-				
1932	Mar. 7, 1932	8.2	-				
1933	Oct. 16, 1932	13.5	-				
1934	Mar. 4, 1934	8.0	-				
1935	Dec. 1, 1934	12.32	28,100				
1936	Jan. 3, 1936	a14.63	-				
	Jan. 4, 1936	-	b26,800				
	Jan. 20, 1936	17.30	52,400				
	Feb. 15, 1936	12.19	27,800				
	Mar. 18, 1936	12.60	29,100				
	Apr. 7, 1936	10.66	22,800				

a Affected by backwater from debris.
 b Daily mean discharge.

751.6. Moon Creek near Yanceyville, N. C.

Location.--Lat 36°28', long 79°23', at bridge half a mile downstream from East Prong, and 5½ miles northwest of Yanceyville, Caswell County.

Drainage area.--29.9 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	15.59	400	1957	February 1957	17.52	1,030
1955	Oct. 15, 1954	20.70	3,050	1958	Aug. 13, 1958	19.14	1,880
1956	Oct. 1, 1955	19.83	2,380	1959	Dec. 28, 1958	18.21	1,380

752.3. South Country Line Creek near Hightowers, N. C.

Location.--Lat 36°19', long 79°18', at bridge 1¼ miles upstream from Penson Creek, and 3½ miles west of Hightowers, Caswell County.

Drainage area.--7.13 sq mi.

Gage.--Crest-stage gage. Prior to June 22, 1956, at site 360 ft upstream at same datum.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and by slope-area measurements at 1,170 and 2,360 cfs to June 22, 1956; not defined thereafter.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	April 1954	16.91	430	1957	Feb. 1, 1957	17.42	-
1955	July 12, 1955	22.12	2,360	1958	Nov. 25, 1957	15.76	-
1956	May 1956	20.07	1,050	1959	Dec. 28, 1958	15.80	-

755. Dan River at Paces, Va.

Location.-- Lat 36°38'32", long 79°05'23", on right bank 12 ft downstream from highway bridge, 0.5 mile southeast of Paces, Halifax County, 0.5 mile upstream from Big Toby Creek, 2.7 miles upstream from Birch Creek, and at mile 36.0.

Drainage area.--2,550 sq mi, approximately.

Gage.--Recording. Datum of gage is 317.37 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--21 ft.

Remarks.--Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft). Base for partial-duration series, 22,000 cfs.

Peak stages and discharges of Dan River at Paces, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 16, 1940	32.3	-	1957	Feb. 2, 1957	22.46	26,100
1951	Apr. 10, 1951	20.50	23,200		Feb. 3, 1957	22.53	-
1952	Dec. 23, 1951	21.26	23,400		Apr. 7, 1957	21.11	22,600
	Mar. 26, 1952	22.12	25,700		Apr. 7, 1957	21.16	-
1953	Mar. 26, 1953	20.00	20,200	1958	Sept. 19, 1957	21.30	23,200
1954	Jan. 24, 1954	22.13	24,800		Sept. 19, 1957	21.36	-
1955	Oct. 17, 1954	25.40	34,000		Nov. 21, 1957	21.66	23,800
	Apr. 16, 1955	23.08	27,200		Nov. 27, 1957	21.36	23,500
	Aug. 19, 1955	20.98	22,200		Nov. 27, 1957	21.45	-
1956	Apr. 17, 1956	18.67	17,300		Apr. 30, 1958	22.19	25,300
					Apr. 30, 1958	22.24	-
				1959	Dec. 30, 1958	24.30	30,300

759. Lawsons Creek at Turbeville, Va.

Location--Lat 36°36'41", long 79°01'28", at bridge on State Highway 658, 1 mile southeast of U. S. Highway 58 at Turbeville, Halifax County.

Drainage area--8.7 sq mi, approximately.

Gage--Crest-stage gage. Altitude of gage is 400 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 6 cfs and extended above on basis of slope-conveyance study.

Bankfull stage--7 ft.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 10, 1951	9.20	780	1956	Oct. 3, 1955	8.25	630
1952	June 1952	9.03	750	1957	Sept. 17, 1957	all.56	al,200
1953	Nov. 21, 1952	6.6	360	1958	Aug. 13, 1958	9.18	780
1954	Jan. 22, 1954	7.92	580	1959	Apr. 12, 1959	10.88	1,100
1955	Oct. 15, 1954	10.81	1,050				

a Revised.

760. Dan River at South Boston, Va.

Location--Lat 36°41'37", long 78°54'09", on left bank 100 ft upstream from Norfolk & Western Railway Bridge at South Boston, Halifax County, 1 mile downstream from Lawsons Creek, 6 miles upstream from Banister River, and at mile 22.6.

Drainage area--2,730 sq mi, approximately.

Gage--Nonrecording prior to Dec. 8, 1928; recording thereafter. Sept. 1, 1900, to May 4, 1907, at datum 3.06 ft higher. Datum of gage is 299.23 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements.

Bankfull stage--20 ft.

Remarks--Flow slightly regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft). Only annual peaks are shown prior to October 1928. Base for partial-duration series, 22,000 cfs.

Peak stages and discharges of Dan River at South Boston, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 23, 1901	24.5	51,000	1937	Aug. 27, 1937	23.91	25,700
1902	Dec. 31, 1901	25.5	52,600				
1903	Mar. 24, 1903	23.5	45,000	1938	Oct. 7, 1937	24.33	26,900
1904	Aug. 10, 1904	13.0	14,000		Oct. 22, 1937	28.25	48,600
1905	Feb. 22, 1905	16.2	20,000		July 26, 1938	22.83	22,900
1906	Jan. 5, 1906	20.5	32,000	1939	Aug. 21, 1939	24.52	27,500
1924	Jan. 18, 1924	24.6	29,000	1940	Aug. 16, 1940	31.8	81,000
1925	Oct. 2, 1924	24.41	28,500	1941	Nov. 16, 1940	20.94	19,400
1926	Jan. 20, 1926	21.5	22,300	1942	May 24, 1942	23.90	25,700
1927	Dec. 26, 1926	20.5	20,400	1943	Apr. 21, 1943	24.26	26,900
1928	Aug. 14, 1928	25.8	31,800	1944	Mar. 31, 1944	22.55	22,200
1929	Mar. 2, 1929	22.76	25,000		Sept. 20, 1944	24.00	26,000
1930	Oct. 4, 1929	27.03	40,000	1945	Oct. 2, 1944	26.1	34,100
1931	Aug. 24, 1931	20.48	20,400		Sept. 20, 1945	30.5	68,000
1932	Jan. 10, 1932	24.9	29,700	1946	Jan. 9, 1946	22.5	22,200
	Mar. 8, 1932	24.48	28,700	1947	Jan. 22, 1947	23.4	24,400
1933	Oct. 20, 1932	26.53	33,500		Sept. 26, 1947	25.7	32,000
1934	Mar. 6, 1934	23.49	26,500	1948	Oct. 12, 1947	25.0	29,000
	Apr. 11, 1934	22.60	24,600		Feb. 16, 1948	23.4	24,400
	Sept. 18, 1934	22.52	24,400		Apr. 3, 1948	23.69	25,200
1935	Dec. 2, 1934	24.47	26,100	1949	Dec. 1, 1948	24.2	26,600
1936	Jan. 5, 1936	-	a32,000		Dec. 6, 1948	22.79	22,900
	Jan. 21, 1936	28.5	51,000	1950	Nov. 2, 1949	23.0	23,400
	Feb. 16, 1936	-	a31,000	1951	Apr. 10, 11, 1951	22.60	22,400
	Mar. 19, 1936	25.56	31,500	1952	Dec. 23, 1951	23.12	23,700
	Apr. 8, 1936	23.30	24,200		Mar. 26, 1952	24.12	26,300
1937	Jan. 4 or 5, 1937	25.7	32,000				
	Jan. 21, 1937	-	a26,000				

a Estimated daily mean discharge.

765. Georges Creek near Gretna, Va.

Location.--Lat 36°56'10", long 79°18'50", on left bank 15 ft downstream from bridge on State Highway 40, 2.8 miles southeast of Gretna, Pittsylvania County, and 5.8 miles upstream from Whitethorn Creek.

Drainage area.--9.2 sq mi, approximately.

Gage.--Recording. Datum of gage is 629.54 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and extended above on basis of slope-area measurements at gage heights 4.93 and 6.23 ft.

Bankfull stage.--4 ft.

Remarks.--Subsequent to July 1, 1957, records furnished by Virginia Department of Conservation and Economic Development, Division of Water Resources. Base for partial-duration series, 150 cfs.

Peak stages and discharges of Georges Creek near Gretna, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Nov. 1, 1949	3.68	212	1955	Aug. 17, 1955	5.23	650
	Sept.13, 1950	6.48	1,100		1956	July 4, 1956	3.50	180
1951	Dec. 4, 1950	3.77	261	Aug. 16, 1956		3.59	196
	1952	Nov. 1, 1951	3.66	209	1957	Oct. 23, 1956	3.91	252
Dec. 21, 1951		4.86	430	Apr. 5, 1957		3.61	200
Mar. 11, 1952		4.38	370	Apr. 8, 1957		3.63	203
Apr. 28, 1952		4.30	340	May 19, 1957		4.01	270
Aug. 5, 1952		4.29	330	June 5, 1957		3.58	200
Aug. 20, 1952		4.09	290	June 8, 1957		3.76	225
Sept. 1, 1952		6.08	865	July 24, 1957		3.96	261
1953	June 22, 1953	3.56	191	Sept.17, 1957	4.60	390	
	1954	Jan. 22, 1954	4.93	460	1958	Nov. 19, 1957	6.06	842
1955		Oct. 15, 1954	6.23	932		Nov. 25, 1957	3.47	182
	Mar. 6, 1955	4.54	380	Feb. 26, 1958		3.36	168
	Apr. 15, 1955	3.63	203	May 6, 1958		4.97	460
1955	June 11, 1955	3.82	350	Aug. 25, 1958	3.68	216	
	July 12, 1955	4.28	330	1959	Dec. 28, 1958	4.57	380
	Aug. 15, 1955	3.37	157		July 10, 1959	4.12	290
					July 20, 1959	3.53	193

770. Banister River at Halifax, Va.

Location.--Lat 36°46'35", long 78°54'58", on left bank 10 ft downstream from bridge on U. S. Highway 360, 1,700 ft downstream from Terrible Creek, 1 mile northeast of Halifax, Halifax County, and 10 miles upstream from mouth.

Drainage area.--552 sq mi.

Gage.--Nonrecording prior to Jan. 1, 1906, at site 400 ft upstream at different datum; recording thereafter. Dec. 9, 1928, to Sept. 20, 1950, at site 400 ft upstream at present datum. Datum of gage is 318.54 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement of peak flow and velocity-area study.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	Feb. 22, 1905	14.5	3,650	1938	Oct. 5, 1937	18.21	5,590
1929	Apr. 17, 1929	19.36	6,430		Oct. 20, 1937	20.21	6,990
	1930	Oct. 3, 1929	24.02		10,100	June 22, 1938	31.22
1931		June 24, 1931	14.20	3,530	July 24, 1938	19.04	6,150
	1932	Mar. 7, 1932	21.89	8,310	1939	Aug. 20, 1939	19.33	6,360
1933		Oct. 18, 1932	20.59	7,270		1940	Aug. 16, 1940	37.8	34,000
	May 31, 1933	19.40	6,430	1941	Nov. 16, 1940		14.6	3,690
1934	Mar. 5, 1934	19.60	6,570		1942	May 23, 1942	17.53	5,170
	1935	Dec. 2, 1934	20.64	7,270		Aug. 10, 1942	21.20	7,750
1936		Jan. 4, 1936	19.88	6,780	1943	Dec. 31, 1942	16.86	4,750
	Jan. 20, 1936	23.56	9,730	1944		Sept.20, 1944	40.8	50,000
	Feb. 15, 1936	20.4	7,130		1945	Oct. 1, 1944	22.4	9,200
	Mar. 18, 1936	24.10	10,200	Sept.19, 1945		24.2	11,100
1937	Jan. 4, 1937	21.04	7,590	1946	Jan. 8, 1946	21.0	7,800
	Jan. 20, 1937	19.80	6,710		June 14, 1946	18.20	5,540
	Apr. 26, 1937	22.90	9,110	1947	Jan. 21, 1947	17.40	5,040
	Aug. 26, 1937	21.90	8,310		Sept.25, 1947	19.40	6,420

Peak stages and discharges of Banister River at Halifax, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 15, 1948	19.0	6,100	1955	Oct. 17, 1954	19.53	6,750
	Apr. 2, 1948	19.0	6,100		Aug. 19, 1955	23.28	10,100
1949	Nov. 29, 1948	20.7	7,530	1956	Apr. 12, 1956	12.54	3,450
	Dec. 5, 1948	19.1	6,180		Apr. 10, 1957	16.80	5,400
1950	Oct. 31, 1949	20.4	7,260	1958	Feb. 27, 1958	16.00	5,300
1951	Dec. 5, 1950	13.61	3,320		Feb. 28, 1958	16.23	-
					May 7, 1958	18.75	7,330
1952	Sept. 2, 1952	19.80	6,740		May 7, 1958	19.42	-
1953	Nov. 21, 1952	14.10	3,500	1959	Dec. 30, 1958	24.30	11,000
1954	Jan. 24, 1954	17.12	5,260				

772.1. Cobbs Creek tributary near Leasburg, N. C.
(Published as "Hycoc Creek tributary" prior to Oct. 1, 1957)

Location--Lat 36°23', long 79°10', at culvert 1¼ miles south of Leasburg, Caswell County, and 1½ miles upstream from mouth.

Drainage area--About 1 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurement below 11 cfs and by culvert measurement at 92 cfs.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 16, 1954	19.40	44	1957	March 1957	20.55	88
1955	Aug. 18, 1955	20.04	68	1958	July 1958	19.18	37
1956	-	18.9	28	1959	-	(a)	(a)

a Peak stage below gage, discharge less than 32 cfs.

773.1. Storys Creek near Roxboro, N. C.

Location--Lat 36°24', long 79°01', at culvert on State Highway 57, 1½ miles upstream from Lake Isaac Walton, and 2¼ miles west of Roxboro, Person County.

Drainage area--2.04 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 210 cfs and by culvert measurement at 299 cfs.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 15, 1954	19.52	180	1957	Aug. 25, 1957	18.10	65
1955	Sept. 30, 1955	20.95	350	1958	Apr. 29, 1958	20.53	299
1956	July 20, 1956	19.28	155	1959	Dec. 28, 1958	19.80	209

775. Hyco River near Denniston, Va.

Location.--Lat 36°35'16", long 78°53'56", on left bank 10 ft upstream from bridge on U. S. Highway 501, 0.8 mile upstream from Mayo Creek, 2 miles east of Denniston, Halifax County, and 8 miles south of South Boston.

Drainage area.--289 sq mi.

Gage.--Nonrecording July 10, 1929, to Mar. 14, 1934; recording since Oct. 1, 1950. Datum of gage is 315.24 ft above mean sea level.

Stage-discharge relation.--Prior to Mar. 15, 1934, defined by current-meter measurements below 1,900 cfs and extended above by logarithmic plotting. Since October 1950, defined by current-meter measurements below 2,900 cfs and extended above. Discharge relation indefinite owing to backwater believed to be caused by inflow just below gage. This was not detected prior to 1957. Both periods probably correct to within 25 percent.

Bankfull stage.--13 ft.

Remarks.--Only annual peaks are shown prior to October 1950. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	August 1928	26.4	-	1955	Aug. 18, 1955	20.57	3,300
1930	Oct. 3, 1929	21.88	5,000	1956	Oct. 3, 1955	17.84	2,480
1931	Apr. 7, 1931	17.18	2,660	1957	Feb. 2, 1957	19.82	-
1932	Mar. 8, 1932	18.58	3,190		Feb. 3, 1957	19.39	a5,880
1933	Dec. 28, 1932	17.52	2,770		Mar. 1, 1957	15.82	a2,400
					Mar. 3, 1957	15.89	-
1945	September 1945	25.6	-	1958	Nov. 27, 1957	17.20	a3,680
1951	Apr. 11, 1951	16.22	2,500		Jan. 16, 1958	17.18	a3,800
1952	Mar. 6, 1952	17.96	2,540		Mar. 1, 1958	15.82	a2,300
1953	Nov. 21, 1952	16.32	2,080		Apr. 30, 1958	16.46	a2,540
					May 7, 1958	16.25	-
1954	June 17, 1954	18.25	2,650	1959	May 8, 1958	16.08	a2,720
					Dec. 30, 1958	18.82	a5,360

a Daily mean discharge.

780. Hyco River near Omega, Va.

Location.--Lat 36°38'09", long 78°48'20", on right bank 100 ft above highway bridge, 1.5 miles upstream from Hilly Creek, 2.5 miles south of Omega, Halifax County, and 7 miles upstream from mouth.

Drainage area.--413 sq mi.

Gage.--Recording. Datum of gage is 294.45 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,800 cfs and extended by logarithmic plotting.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 3,100 cfs.

Peak stages and discharges of Hyco River near Omega, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Apr. 10, 1934	21.75	6,460	1940	Aug. 17, 1940	25.65	9,280
	June 1, 1934	17.29	2,720	1941	Nov. 17, 1940	16.16	3,140
	Sept. 8, 1934	27.50	11,000				
	Sept. 19, 1934	17.55	3,720				
1935	Dec. 1, 1934	21.15	6,040	1942	May 3, 1942	15.41	2,890
	Apr. 4, 1935	15.92	3,160	1943	Feb. 8, 1943	16.66	3,470
1936	Jan. 6, 1936	22.78	7,160	1944	Apr. 15, 1944	18.05	4,030
	Jan. 20, 1936	21.98	6,600		Sept. 20, 1944	18.21	4,140
	Feb. 17, 1936	19.93	5,140	1945	Oct. 1, 2, 1944	22.13	6,670
	Mar. 19, 1936	22.90	7,230		Oct. 21, 1944	16.33	3,320
	Apr. 8, 1936	19.73	5,020		Sept. 20, 1945	28.44	11,900
1937	Jan. 5, 1937	25.0	8,800	1946	Dec. 29, 1945	17.2	3,660
	Jan. 22, 1937	18.85	4,130		Feb. 13, 1946	17.14	3,620
	Apr. 27, 1937	21.78	6,460	1947	Sept. 27, 1947	18.32	4,190
1938	June 22, 1938	19.83	5,080	1948	Feb. 15, 1948	22.28	6,810
	July 27, 1938	23.21	7,440		1949	Dec. 1, 1948	17.53	3,790
1939	May 3, 1939	17.40	3,530	1950	Nov. 3, 1949	14.60	2,780
	July 9, 1939	17.25	3,470				
	Aug. 31, 1939	18.48	4,300				
1940	Feb. 10, 1940	17.07	3,430				

790. Roanoke (Staunton) River at Clarksville, Va.

Location.--Lat 36°37'40", long 78°33'04", on right bank 6 ft downstream from highway bridge in Clarksville, Mecklenburg County, 500 ft upstream from Dan River, and at mile 199.0.

Drainage area.--7,320 sq mi, approximately, includes that of Dan River.

Gage.--Nonrecording prior to Dec. 24, 1934; recording thereafter. July 1, 1891, to Dec. 31, 1933, at site half a mile upstream (on Dan River) at datum 1 ft higher. Datum of gage is 258.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined only since 1934 by current-meter measurements.

Bankfull stage.--13 ft.

Remarks.--Gage-height records furnished by U. S. Weather Bureau prior to Dec. 24, 1934. Only annual peak stages are shown prior to 1935. Base for partial-duration series, 50,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	Nov. 27, 1877	27	-	1911	Jan. 5, 1911	8.8	-
1892	Jan. 15, 1892	10.3	-	1912	Mar. 17, 1912	17.0	-
	Sept. 14, 1893	13.5	-	1913	Mar. 16, 1913	13.5	-
1894	Oct. 24, 1893	10.5	-	1914	Nov. 10, 1913	9.5	-
1895	Apr. 9, 1895	9.6	-	1915	Jan. 9, 1915	12.0	-
	July 10, 1896	13.8	-	1916	Feb. 4, 1916	11.3	-
1897	Feb. 25, 1897	12.8	-	1917	Mar. 7, 1917	12.4	-
1898	Sept. 25, 1898	10.4	-	1918	Apr. 23, 1918	11.5	-
1899	Mar. 21, 1899	17	-	1919	Jan. 5, 1919	12.8	-
1900	Apr. 20, 1900	14.3	-	1920	Aug. 21, 1920	18.0	-
1901	May 24, 1901	18.4	-	1921	Dec. 2, 1920	10.2	-
	Mar. 2, 1902	14.7	-	1922	Mar. 5, 1922	9.8	-
1903	Mar. 25, 1903	16.8	-	1923	Mar. 19, 1923	14.3	-
1904	Feb. 23, 1904	8.9	-	1924	Jan. 19, 1924	10.3	-
	July 15, 1905	7.3	-	1925	Oct. 2, 1924	12.5	-
1906	Jan. 6, 1906	11.0	-	1926	Jan. 20, 1926	10.0	-
1907	Oct. 21, 1906	9.9	-	1927	Feb. 22, 1927	9.0	-
1908	Aug. 26, 1908	13.6	-	1928	Aug. 14, 1928	15.2	-
1909	May 23, 1909	9.0	-	1929	Mar. 2, 1929	10.8	-
1910	Mar. 3, 1910	8.8	-	1930	Oct. 5, 1929	15.1	-

Peak stages and discharges of Roanoke (Staunton) River at Clarksville, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 24, 1931	9.2	-	1943	Jan. 1, 1943	11.05	50,000
1932	Mar. 8, 1932	12.4	-		Feb. 8, 1943	11.33	52,700
1933	Oct. 20, 1932	14.3	-		Apr. 22, 1943	11.69	56,300
1934	Mar. 6, 1934	11.7	-	1944	Sept. 21, 1944	18.61	138,000
1935	Dec. 3, 1934	14.70	88,000	1945	Oct. 2, 1944	12.05	59,000
	Jan. 25, 1935	11.88	60,300		Oct. 23, 1944	11.05	50,000
	Mar. 15, 1935	11.05	50,800		Sept. 20, 1945	17.80	127,000
1936	Jan. 5, 1936	14.61	86,800	1946	Jan. 10, 1946	11.60	55,400
	Jan. 21, 1936	16.88	114,000		Feb. 12, 1946	11.00	50,000
	Feb. 17, 1936	14.95	91,200	1947	Jan. 22, 1947	11.13	50,900
	Mar. 20, 1936	16.27	106,200		Sept. 26, 1947	11.80	57,200
	Apr. 8, 1936	11.33	52,900	1948	Feb. 16, 1948	13.53	74,500
1937	Jan. 5, 1937	14.74	87,900		Apr. 3, 1948	12.82	67,000
	Jan. 22, 1937	13.93	79,100	1949	Dec. 1, 1948	12.63	65,000
	Apr. 27, 1937	13.72	76,900		Dec. 6, 1948	14.20	82,400
1938	Oct. 22, 1937	16.37	108,000		Jan. 1, 1949	11.01	50,000
	June 23, 1938	12.37	63,200	1950	Nov. 2, 1949	11.17	51,800
	July 26, 1938	12.77	67,200	1951	Apr. 11, 1951	9.98	42,000
1939	Aug. 21, 1939	13.24	71,400	1952	Dec. 23, 1951	12.11	60,000
1940	Aug. 17, 1940	26.66	280,000		Mar. 26, 1952	11.04	50,000
1941	Apr. 6, 1941	9.73	39,600		Sept. 3, 1952	12.58	65,000
1942	May 24, 1942	11.60	55,400				
	Aug. 10, 1942	11.34	52,700				

795. Roanoke River at Buggs Island, Va.

Location--Lat 36°36'06", long 78°17'56", on left bank 1,200 ft downstream from John H. Kerr Dam, 2.4 miles upstream from Allens Creek, 5.3 miles upstream from U. S. Highway 1, 6.7 miles southeast of Boydton, Mecklenburg County, and at mile 178.4.

Drainage area--7,780 sq mi, approximately.

Gage--Recording. April 1947 to Sept. 30, 1952, at site 2,800 ft downstream at different datum. Datum of gage is 196.72 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation--Defined by current-meter measurements.

Bankfull stage--15 ft.

Remarks--Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft) and by John H. Kerr Reservoir (usable capacity, 2,324,300 acre-ft). Base for partial-duration series, 50,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	August 1940	a33.9	-	1953	Mar. 26, 1953	9.45	32,300
1947	Sept. 26, 1947	11.57	50,400	1954	Sept. 7, 1954	8.19	25,100
1948	Feb. 15, 1948	14.64	72,800	1955	Apr. 19, 1955	9.94	35,300
	Apr. 3, 1948	13.03	60,000	1956	Apr. 17, 1956	10.05	35,900
1949	Dec. 1, 1948	12.83	59,800	1957	Feb. 4, 1957	10.60	42,000
	Dec. 7, 1948	14.97	76,000	1958	Dec. 13, 1957	10.36	40,400
1950	Nov. 2, 1949	11.64	52,600		Apr. 15, 1958	10.36	40,400
1951	Apr. 11, 1951	7.41	30,000	1959	May 29, 1959	10.26	39,600
1952	Dec. 23, 1951	8.94	37,500				

a From levels by Corps of Engineers.

796. Jolly Holly Branch at Boynton, Va.

Location.--Lat 36°40'38", long 78°23'13", at bridge on State Highway 92, 0.5 mile north of Boynton railroad station, Mecklenburg County.

Drainage area.--3.60 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 280 ft (from topographic map).

Stage-discharge relation.--Not defined.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	-	6.2	-	1957	Feb. 1, 1957	3.67	-
1955	Aug. 13, 1955	5.62	-	1958	May 6, 1958	4.20	-
1956	June 2, 1956	6.24	-	1959	Oct. 22, 1958	3.65	-

805. Roanoke River at Roanoke Rapids, N. C.
(Published as "at Old Gaston" 1911-30)

Location.--Lat 36°28', long 77°38', on right bank $1\frac{1}{4}$ miles downstream from bridge on State Highway 48 at Roanoke Rapids, Halifax County, $2\frac{1}{2}$ miles upstream from Chocoyott Creek, $2\frac{3}{4}$ miles downstream from Roanoke Rapids Dam, and at mile 133.6.

Drainage area.--8,410 sq mi, approximately; 8,350 sq mi, approximately, prior to Oct. 1, 1930.

Gage.--Nonrecording prior to Nov. 21, 1921; recording thereafter. At site 9 miles upstream at datum 74.12 ft higher Dec. 7, 1911, to Sept. 30, 1930. Datum of gage is 43.83 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Since Aug. 6, 1941, auxiliary recording gage 3.6 miles downstream at datum 27.78 ft lower.

Stage-discharge relation.--Defined at site in use 1911-30, by current-meter measurements below 91,000 cfs and extended above on basis of peak gage heights for 1936 and 1940 floods at site and the peak discharges computed for those floods at present site; defined by current-meter measurements at present site. Relation at present site affected by slope above 20,000 cfs.

Historical data.--Flood of Aug. 18, 1940, is the maximum known since at least 1771.

Remarks.--Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft) and by John H. Kerr Reservoir (usable capacity, 2,324,300 acre-ft) and since June 1955 by Roanoke Rapids Reservoir (usable capacity, 77,140 acre-ft). Only annual peaks are shown.

Peak stages and discharges of Roanoke River at Roanoke Rapids, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a19	212,000	1935	Dec. 4, 1934	20.87	80,300
1889	August 1889	a15	137,000	1936	Jan. 23, 1936	24.66	110,000
1912	Mar. 18, 1912	16.2	158,000	1937	Apr. 27, 1937	19.55	82,300
1913	Mar. 17, 1913	14.3	125,000	1938	Oct. 24, 1937	22.82	96,400
1914	Nov. 11, 1913	8.9	51,300	1939	Aug. 22, 1939	17.31	62,500
1915	Jan. 10, 1915	10.9	75,400	1940	Aug. 18, 1940	39.0	261,000
1916	Feb. 4 1916	11.0	77,100	1941	Nov. 15, 1940	12.56	42,500
1917	Mar. 6, 1917	11.8	91,700	1942	Aug. 11, 1942	15.32	55,400
1918	Apr. 23, 1918	11.2	80,500	1943	Feb. 7 1943	15.30	53,500
1919	July 23, 1919	12.8	101,000	1944	Sept. 22, 1944	26.95	127,000
1920	Feb. 7, 1920	11.5	86,000	1945	Sept. 22, 1945	26.78	121,000
1921	Dec. 3, 1920	9.7	59,700	1946	Jan. 10, 1946	15.59	52,900
1922	Mar. 5, 1922	10.78	73,500	1947	Sept. 26, 1947	15.48	54,100
1923	Mar. 20, 1923	13.06	105,000	1948	Feb. 17, 1948	19.25	72,100
1924	May 11, 1924	10.87	74,900	1949	Dec. 7, 1948	18.99	69,300
1925	Oct. 3, 1924	11.4	86,200	1950	Nov. 2, 1949	16.64	54,900
1926	Jan. 21, 1926	9.36	57,200	1951	Dec. 7, 1950	10.30	28,800
1927	Feb. 22, 1927	9.10	54,200	1952	Dec. 23, 1951	12.37	39,000
1928	Aug. 15, 1928	13.25	107,000	1953	Mar. 26, 1953	10.67	31,200
1929	Mar. 1, 1929	10.5	71,800	1954	Mar. 16, 1954	9.20	23,000
1930	Oct. 6, 1929	12.71	99,200	1955	Aug. 19, 1955	12.83	43,200
1931	Aug. 25, 1931	12.75	41,900	1956	Sept. 27, 1956	8.56	20,000
1932	Mar. 7, 1932	18.43	71,200	1957	Apr. 11, 1957	12.79	43,200
1933	Oct. 21, 1932	20.84	90,400	1958	May 7, 1958	16.52	60,700
1934	Apr. 11, 1934	17.52	69,600	1959	Apr. 14, 1959	8.47	19,500

a From information by local residents.

810. Roanoke River near Scotland Neck, N. C.

Location.--Lat 36°12', long 77°23', on right bank 10 ft upstream from bridge on U. S. Highway 258, 1 mile downstream from tributary on right, 3 miles downstream from Bridgers Creek, $5\frac{1}{4}$ miles north of Scotland Neck, Halifax County, and at mile 102.5.

Drainage area.--8,700 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 18, 1940; recording thereafter. Datum of gage is 5.77 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. A nonrecording auxiliary gage 8.9 miles downstream prior to Jan. 13, 1941; recording auxiliary gage thereafter.

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by slope at all stages.

Remarks.--Operated as stage-only station since Oct. 1, 1956. Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft) and by John H. Kerr Reservoir (usable capacity 2,324,300 acre-ft) and since June 1955 by Roanoke Rapids Reservoir (usable capacity, 77,140 acre-ft). Only annual peaks are shown.

Peak stages and discharges of Roanoke River near Scotland Neck, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	November 1877	a37.8	-	1946	Feb. 14, 1946	30.47	38,800
1912	March 1912	a36.8	-	1947	Sept. 29, 1947	30.78	37,800
1919	-	a34.9	-	1948	Feb. 18, 1948	33.87	61,900
1925	October 1924	a32.9	-	1949	Dec. 9, 1948	33.26	55,400
1936	Jan. 24, 1936	b35.1	-	1950	Nov. 4, 1949	31.37	40,500
1940	Aug. 19, 1940	41.88	260,000	1951	Apr. 15, 1951	28.35	c26,000
1941	Nov. 18, 1940	29.26	32,200	1952	Dec. 26, 1951	28.86	31,900
1942	May 26, 1942	29.76	35,700	1953	Mar. 29, 1953	28.08	26,400
1943	Feb. 10, 1943	31.47	39,900	1954	Jan. 28, 1954	23.50	18,900
1944	Sept. 23, 1944	35.70	96,300	1955	Aug. 23, 1955	30.10	31,900
1945	Sept. 23, 1945	37.03	119,000	1956	Apr. 19, 1956	23.37	18,300
				1957	Apr. 13, 1957	28.23	-
				1958	May 8, 1958	30.78	-
				1959	Apr. 23, 1959	28.51	-
						.	-

a From information by North Carolina State Highway Commission.

b From unpublished U. S. Weather Bureau records.

c Daily mean discharge.

810.54. Roanoke River at Williamston, N. C.

Location.--Lat 35°51'40", long 77°02'20", at bridge on U. S. Highways 13 and 17, three-quarters of a mile upstream from Sweetwater Creek, and 1 mile northeast of Williamston, Martin County.

Drainage area.--9,070 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 2.75 ft below mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--10 ft (U. S. Weather Bureau).

Remarks.--Gage heights furnished by U. S. Weather Bureau are generally once-daily readings with occasional readings on the crest. Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 145,200 acre-ft) and by John H. Kerr Reservoir (usable capacity, 2,324,300 acre-ft) and since June 1955 by Roanoke Rapids Reservoir (usable capacity, 77,140 acre-ft). Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1877	-	18.1	-	1941	Apr. 13, 1941	10.8	-
1912	-	17.8	-	1942	Aug. 23-26, 1942	11.0	-
1919	-	16.1	-	1943	Feb. 13, 1943	11.9	-
1923	-	14.3	-	1944	Sept. 27, 1944	12.9	-
1924	-	13.0	-	1945	Sept. 26, 1945	15.0	-
1928	-	13.5	-	1946	Jan. 5, 6, 1946	11.9	-
1931	Apr. 13, 14, 1931	11.1	-	1947	Jan. 28, 1947	11.5	-
1932	Mar. 14, 1932	12.7	-	1948	Feb. 22, 1948	13.1	-
1933	Jan. 5, 1933	12.2	-	1949	Dec. 11, 1948	12.8	-
1934	Apr. 17, 1934	11.5	-	1950	Nov. 9, 1949	11.6	-
1935	Dec. 8, 1934	13.9	-	1951	Apr. 18-20, 1951	11.3	-
1936	Jan. 27, 1936	14.7	-	1952	Dec. 31, 1951	11.4	-
1937	Jan. 27, 1937	14.0	-	1953	Apr. 4, 1953	11.2	-
1938	Aug. 1, 1938	13.7	-	1954	Jan. 30, 1954	10.7	-
1939	Feb. 18-20, 1939	11.7	-	1955	Aug. 29, 1955	11.7	-
1940	Aug. 22, 1940	20.5	-	1956	Apr. 22, 1956	10.0	-
				1957	Apr. 18, 1957	16.0	-
				1958	May 11-14, 1958	11.5	-
				1959	Apr. 25, 1959	11.2	-

810.6. Smithwick Creek tributary near Williamston, N. C.

Location.--Lat 35°43'50", long 77°04'40", at culvert on U. S. Highway 17, a quarter of a mile upstream from mouth, and 9.5 miles south of Williamston, Martin County.

Drainage area.--0.92 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended above.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	March 1953	20.70	10	1957	October 1956	21.25	29
1954	July 1954	21.68	49	1958	Aug. 26, 1958	21.67	48
1955	Sept. 20, 1955	23.86	250	1959	April 1959	22.11	74
1956	Sept. 26, 1956	23.56	210				

811.1. White Oak Swamp near Windsor, N. C.

Location.--Lat 36°04', long 76°59', at bridge on U. S. Highway 13, three-quarters of a mile upstream from mouth, and 6 miles north of Windsor, Bertie County.

Drainage area.--17.1 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Backwater from Cashie River possible.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Apr. 13, 1953	15.82	96.0	1957	-	16.97	320
1954	Jan. 26, 1954	18.14	610	1958	Aug. 26, 1958	17.40	420
1955	Sept. 20, 1955	20.68	1,450	1959	Dec. 28, 1958	17.70	495
1956	May 6, 1956	18.14	610				

PAMLICO RIVER BASIN

812.1. Shelton Creek near Oxford, N. C.

Location.--Lat 36°18'47", long 78°43'16", at culvert on U. S. Highway 158, 1 $\frac{1}{4}$ miles upstream from mouth, and 7 $\frac{1}{2}$ miles west of Oxford, Granville County.

Drainage area.--22.6 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Not defined.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 15, 1954	18.22	-	1957	February 1957	18.90	-
1955	Aug. 17, 1955	21.39	-	1958	April 1958	18.09	-
1956	Mar. 16, 1956	17.11	-	1959	Dec. 28, 1958	17.84	-

815. Tar River near Tar River, N. C.

Location.--Lat 36°11'41", long 78°35'00", on right bank 90 ft upstream from bridge on State Highway 96, 1¼ miles upstream from Fishing Creek, 2½ miles east of town of Tar River, Granville County, and 8 miles south of Oxford.

Drainage area.--167 sq mi.

Gage.--Recording. Datum of gage is 287.25 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1940	Feb. 7, 1940	8.56	2,790	1950	Nov. 2, 1949	8.25	2,640	
	May 25, 1940	11.9	5,500		July 10, 1950	8.49	3,500	
	Aug. 16, 1940	7.38	2,050	1951	Apr. 3, 1951	7.24	1,940	
1941	Nov. 15, 1940	10.64	4,380		1952	Dec. 22, 1951	9.34	3,300
1942	Feb. 17, 1942	8.03	2,370	Jan. 10, 1952		7.82	2,280	
	Mar. 9, 1942	7.93	2,320	Jan. 29, 1952		9.75	3,680	
1943	Oct. 15, 1942	8.36	2,660	Mar. 4, 1952		11.93	5,550	
	Dec. 30, 1942	9.03	3,070	Mar. 11, 1952	8.05	2,400		
	Feb. 6, 1943	8.68	2,860	Mar. 25, 1952	8.04	2,400		
	Mar. 7, 1943	8.93	3,000	Sept. 1, 1952	13.36	7,060		
	Mar. 28, 1943	7.60	2,160	1953	Nov. 20, 1952	13.78	7,500	
Apr. 20, 1943	9.18	3,220	Jan. 24, 1953		9.62	3,520		
1944	Feb. 18, 1944	8.23	2,530		Feb. 15, 1953	10.39	4,200	
	Mar. 13, 1944	8.04	2,400		Mar. 24, 1953	13.57	7,280	
	Apr. 12, 1944	11.04	4,740	June 18, 1953	10.43	4,200		
	Sept. 20, 1944	9.42	3,370	1954	Jan. 16, 1954	7.98	2,400	
	Sept. 30, 1944	14.27	8,050		Jan. 23, 1954	9.78	3,680	
1945	Nov. 28, 1944	9.30	3,300		Mar. 1, 1954	7.86	2,340	
	Feb. 14, 1945	9.67	3,600		Mar. 14, 1954	9.93	3,760	
	Feb. 18, 1945	7.47	2,100	Apr. 1, 1954	7.32	2,000		
	July 16, 1945	10.58	4,380	June 17, 1954	11.70	5,370		
	July 17, 1945	9.85	3,680	1955	Feb. 7, 1955	7.45	2,050	
	Sept. 18, 1945	16.51	10,600		Feb. 12, 1955	7.86	2,340	
1946	Dec. 26, 1945	8.88	3,000		Mar. 6, 1955	7.87	2,340	
	Dec. 29, 1945	10.72	4,470		Apr. 15, 1955	7.50	2,100	
	Feb. 1, 1946	7.93	2,340	Aug. 18, 1955	18.07	13,100		
	Feb. 11, 1946	10.83	4,560	1956	Oct. 1, 1955	7.41	2,050	
1947	January 1947	-	2,100		Feb. 7, 1956	7.54	2,100	
	1948	Oct. 10, 1947	13.21		6,840	Mar. 17, 1956	11.19	4,920
1948	Nov. 3, 1947	7.41	2,050		Apr. 12, 1956	10.07	3,930	
	Nov. 12, 1947	12.42	6,040		May 4, 1956	10.38	4,200	
	Jan. 14, 1948	8.95	3,070	1957	Feb. 1, 1957	13.00	6,500	
	Feb. 14, 1948	12.76	6,440		Feb. 27, 1957	9.72	3,490	
	Mar. 8, 1948	8.12	2,460		Mar. 1, 1957	8.52	2,650	
	1949	Apr. 10, 1948	8.79	2,930	1958	Nov. 26, 1957	8.13	2,380
		Apr. 15, 1948	7.39	2,050		Jan. 14, 1958	8.62	2,720
		July 15, 1948	7.82	2,280		Jan. 25, 1958	9.40	3,280
		1949	Oct. 6, 1948	8.26		2,600	Feb. 27, 1958	9.12	3,070
	Nov. 29, 1948		12.00	5,640		Apr. 6, 1958	11.29	4,790
	Dec. 4, 1948		8.50	2,850	Apr. 11, 1958	9.85	3,560	
	Dec. 30, 1948		9.46	3,500	May 7, 1958	11.07	4,610	
Jan. 6, 1949	7.41		2,170	Aug. 4, 1958	8.05	2,320		
Feb. 10, 1949	7.61		2,280	1959	Dec. 29, 1958	13.00	6,050	
Aug. 29, 1949	7.82		2,400		Apr. 13, 1959	9.02	2,880	
Sept. 17, 1949	7.53		2,200		July 10, 1959	11.58	4,800	

817.1. Long Creek at Kittrell, N. C.

Location.--Lat 36°14', long 78°27', at bridge three-quarters of a mile west of Kittrell, Vance County, and 2½ miles upstream from mouth.

Drainage area.--3.26 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 750 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	June 16, 1954	18.00	600	1957	February 1957	16.67	362
1955	Aug. 17, 1955	19.27	980	1958	July 1958	16.92	400
1956	July 20, 1956	19.45	1,050	1959	July 10, 1959	16.59	350

818. Cedar Creek near Louisburg, N. C.

Location.--Lat 36°03', long 78°20', on downstream end of center pier of bridge on U. S. Highway 401, three-quarters of a mile downstream from Camping Creek, 3.7 miles southwest of Louisburg, Franklin County, and 5.5 miles upstream from mouth.

Drainage area.--47.8 sq mi.

Gage.--Crest-stage gage October 1953 to August 1955; recording thereafter. Datum of gage is 214.93 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown prior to Dec. 16, 1956. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	-	a14	-	1958	May 6, 1958	6.86	2,240
					July 9, 1958	3.75	481
1954	Jan. 27, 1954	6.62	a1,980		July 14, 1958	4.00	580
1955	Aug. 18, 1955	6.78	a2,100		Aug. 4, 1958	4.29	715
					Aug. 27, 1958	4.48	810
1956	Mar. 17, 1956	4.98	a1,000				
				1959	Dec. 29, 1958	6.86	2,170
1957	Dec. 16, 1956	5.26	1,180		Apr. 13, 1959	4.13	648
	Feb. 1, 1957	4.25	692		Apr. 20, 1959	4.61	860
	Feb. 27, 1957	3.74	477		May 14, 1959	3.79	496
					July 11, 1959	3.84	520
1958	Jan. 25, 1958	3.95	560		July 21, 1959	3.93	560
	Mar. 26, 1958	4.11	625				

a From information by North Carolina State Highway Commission.

PAMLICO RIVER BASIN

820. Tar River near Nashville, N. C.

Location.--Lat 35°51'00", long 77°55'50", on left bank 15 ft downstream from Cockrell Bridge on State Highway 58, 5 miles upstream from Sapory Creek, 10 miles south of Nashville, Nash County, and at mile 103.6.

Drainage area.--701 sq mi.

Gage.--Nonrecording prior to Feb. 27, 1935; recording thereafter. Datum of gage is 110.96 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current meter measurements.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)		
1929	Mar. 4, 1929	14.72	8,960	1944	Feb. 21, 1944	10.34	4,380		
	Mar. 9, 1929	14.71	8,960		Mar. 22, 1944	10.54	4,520		
	June 29, 1929	10.2	4,150		Apr. 15, 1944	11.24	5,060		
	July 12, 1929	10.4	4,290		July 17, 1944	11.68	5,460		
	July 19, 1929	10.2	4,150		1945	Oct. 4, 1944	15.50	9,050	
1930	Oct. 6, 1929	16.98	11,100	Dec. 2, 1944		11.88	5,620		
	Oct. 25, 1929	12.6	6,100	Feb. 16, 1945		9.87	4,100		
	Nov. 6, 1929	10.4	4,290	Feb. 25, 1945		10.34	4,380		
1931	Apr. 9, 1931	10.26	4,220	July 21, 1945		14.24	7,700		
	May 9, 1931	11.1	4,780	Aug. 4, 1945	10.09	4,240			
	Aug. 13, 1931	11.20	4,850	Sept. 21, 1945	20.19	15,500			
1932	Jan. 13, 1932	11.49	5,080	1946	Jan. 2, 1946	11.94	5,620		
	Mar. 10, 1932	13.49	7,240		Feb. 14, 1946	12.26	5,970		
1933	Apr. 20, 1933	10.51	4,360	1947	Jan. 23, 1947	9.23	3,490		
1934	Apr. 13, 1934	15.82	9,480	1948	Nov. 15, 1947	10.19	4,200		
	Aug. 27, 1934	11.4	4,980		Feb. 18, 1948	15.17	8,520		
1935	Dec. 3, 1934	20.8	16,900		Mar. 10, 1948	10.15	4,200		
	Apr. 4, 1935	11.04	4,700	1949	Nov. 6, 1948	10.06	4,240		
	Apr. 25, 1935	10.80	4,560		Dec. 3, 1948	12.84	6,420		
	Sept. 9, 1935	10.58	4,420		Dec. 7, 1948	10.76	4,740		
1936	Jan. 7, 1936	14.87	8,280		Jan. 2, 1949	10.47	4,520		
	Jan. 23, 1936	12.87	6,300	Aug. 30, 1949	11.32	5,140			
	Feb. 18, 1936	14.82	8,280	1950	Nov. 4, 1949	9.91	4,030		
	Mar. 21, 1936	12.68	6,100		1951	Apr. 11, 1951	8.83	3,260	
	Apr. 10, 1936	15.57	9,220			1952	Feb. 1, 1952	10.47	4,450
1937	Dec. 13, 1936	10.89	4,630				Mar. 4, 1952	11.88	5,520
	Jan. 6, 1937	11.20	5,060				Mar. 8, 1952	13.70	7,200
	Jan. 30, 1937	12.20	5,880	Sept. 5, 1952			12.74	6,230	
	Apr. 6, 1937	11.03	4,900	1953	Nov. 25, 1952		13.07	6,600	
	Apr. 30, 1937	13.80	7,330		Jan. 28, 1953	10.78	4,660		
Aug. 29, 1937	15.78	9,560	Feb. 19, 1953		11.41	5,120			
1938	June 25, 1938	13.59	7,140		Mar. 28, 1953	10.69	4,590		
	July 30, 1938	15.51	9,200		June 16, 1953	12.21	5,780		
1939	Feb. 13, 1939	13.20	6,780	June 21, 1953	11.37	5,120			
	Mar. 3, 1939	10.32	4,380	1954	Jan. 19, 1954	11.40	5,120		
	May 6, 1939	10.71	4,680		Jan. 26, 1954	14.96	8,600		
	Aug. 22, 1939	11.00	4,900		Feb. 22, 1954	10.82	4,660		
	Aug. 31, 1939	15.97	9,800		Mar. 4, 1954	10.42	4,380		
1940	Apr. 23, 1940	10.20	4,300		May 23, 1954	10.21	4,240		
	May 28, 1940	10.19	4,300	1955	Mar. 9, 1955	10.09	4,170		
	Aug. 18, 1940	17.37	11,700		Aug. 22, 1955	16.64	10,400		
1941	Nov. 18, 1940	10.16	4,140		Sept. 3, 1955	10.77	4,660		
	1942	Feb. 20, 1942	9.59	3,720	1956	Mar. 20, 1956	12.31	5,870	
1943		Oct. 18, 1942	11.90	5,540		Apr. 15, 1956	10.63	4,660	
	Jan. 21, 1943	10.50	4,420	1957	Dec. 18, 1956	10.25	4,380		
					Feb. 5, 1957	14.25	7,700		

Peak stages and discharges of Tar River near Nashville, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Mar. 2, 1957	11.18	4,960	1958	May 10, 1958	17.28	11,400
					Aug. 28, 1958	11.75	5,440
1958	Dec. 12, 1957	10.10	4,170				
	Jan. 17, 1958	9.95	4,100	1959	Jan. 2, 1959	12.68	6,230
	Jan. 28, 1958	10.56	4,520		Apr. 16, 1959	11.38	5,120
	Mar. 2, 1958	10.73	4,590		Apr. 22, 1959	10.22	4,240
	Mar. 28, 1958	10.09	4,170		July 13, 1959	11.92	5,520
	Apr. 10, 1958	10.77	4,660				

825. Sapony Creek near Nashville, N. C.

Location.--Lat 35°53'10", long 77°54'40", on right bank 275 ft upstream from bridge on county road, 1 mile upstream from mouth, and 6½ miles southeast of Nashville, Nash County.

Drainage area.--64.8 sq mi.

Gage.--Nonrecording prior to Jan. 19, 1959; recording thereafter. Altitude of gage is 100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak stages occasionally affected by backwater from Tar River. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 11, 1951	5.40	316	1956	Mar. 18, 1956	10.00	980
1952	Mar. 5, 1952	11.20	1,350	1957	Feb. 28, 1957	8.4	652
1953	Apr. 14, 1953	9.6	970	1958	May 8, 1958	12.69	1,820
1954	Jan. 24, 1954	14.34	2,200	1959	July 29, 1959	8.84	785
1955	Sept. 4, 1955	14.12	2,190				

825.26. Tar River at Rocky Mount, N. C.

Location.--Lat 35°57'10", long 77°49'20", 100 ft downstream from bridge on U. S. Highway 64, three-quarters of a mile upstream from Stony Creek, and 1¼ miles west of Rocky Mount, Nash County.

Drainage area.--803 sq mi.

Gage.--Nonrecording. Prior to June 25, 1929, at county highway bridge 25 ft downstream. Datum of gage is 79.50 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--9 ft (U. S. Weather Bureau).

Remarks.--Only annual peak stages are shown. Gage heights furnished by U. S. Weather Bureau and are generally once-daily readings with occasional readings on the crest.

Peak stages and discharges of Tar River at Rocky Mount, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	19.0	-	1935	Dec. 3, 1934	13.7	-
1911	Feb. 11, 12, 1911	8.0	-	1936	Apr. 11, 1936	11.1	-
1912	Mar. 20, 1912	9.4	-	1937	Aug. 29, 30, 1937	11.1	-
1913	Sept. 5, 1913	9.8	-	1938	July 30, 1938	11.0	-
1914	Oct. 25, 1913	8.4	-	1939	Aug. 30, 1939	13.2	-
1915	Dec. 29, 1914	8.5	-	1940	Aug. 18, 1940	13.2	-
	Jan. 16, 1915	8.5	-				
1916	Feb. 6, 1916	8.5	-	1941	July 17, 1941	8.1	-
1917	Mar. 7, 1917	9.0	-	1942	Feb. 20, 1942	7.8	-
1918	Apr. 14, 1918	9.0	-	1943	Oct. 18, 1942	9.2	-
1919	July 24, 1919	15.5	-	1944	July 17, 1944	9.2	-
1920	July 22, 1920	8.4	-	1945	Sept. 22, 1945	13.5	-
1921	Feb. 13, 1921	8.3	-	1946	Jan. 2, 1946	9.1	-
1922	Mar. 6, 1922	10.4	-		Feb. 13, 14, 1946	9.1	-
1923	Mar. 17, 1923	9.4	-	1947	Jan. 23, 1947	7.5	-
1924	Sept. 30, 1924	12.8	-	1948	Feb. 16, 1948	10.8	-
1925	Oct. 1, 1924	15.0	-	1949	Dec. 3, 1948	9.5	-
				1950	Nov. 5, 1949	7.8	-
1926	July 29, 1926	10.2	-	1951	Apr. 11, 1951	7.5	-
1927	Mar. 9, 1927	8.2	-	1952	Mar. 6, 1952	10.0	-
1928	Sept. 20, 1928	13.6	-	1953	Nov. 25, 1952	8.8	-
1929	Mar. 5, 1929	10.6	-	1954	Jan. 24, 1954	11.5	-
1930	Oct. 23, 1929	13.4	-	1955	Aug. 23, 1955	11.1	-
1931	Aug. 13, 1931	9.2	-	1956	Mar. 19, 21, 1956	8.6	-
1932	Mar. 11, 1932	9.5	-	1957	Feb. 6, 1957	9.8	-
1933	Apr. 20, 1933	8.2	-	1958	May 11, 1958	11.7	-
1934	Apr. 14, 1934	10.9	-	1959	Jan. 2, 1959	9.1	-

825.4. Wildcat Branch near Mapleville, N. C.

(Published as "Big Peachtree Creek tributary" prior to Oct. 1, 1957)

Location.--Lat 36°04', long 78°09', at culvert $1\frac{3}{4}$ miles upstream from mouth and 5 miles east of Mapleville, Franklin County.

Drainage area.--0.35 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by theoretical culvert computations and indirect measurement at 175 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	July 1953	25.00	175	1957	Sept. 19, 1957	20.84	34
1954	May 11, 1954	23.23	100	1958	May 7, 1958	23.32	103
1955	July 13, 1955	22.11	70	1959	April 1959	22.15	72
1956	Mar. 16, 1956	19.9	17				

826.3. Harts Mill Run near Tarboro, N. C.

Location.--Lat 35°55'40", long 77°37'10", at bridge on U. S. Highway 64, $2\frac{1}{4}$ miles upstream from mouth, and 5 miles northwest of Tarboro, Edgecombe County.

Drainage area.--8.58 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Harts Mill Run near Tarboro, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 23, 1953	21.11	260	1957	June 9, 1957	21.17	275
1954	Jan. 22, 1954	21.15	275	1958	Aug. 25, 1958	20.78	-
1955	Sept. 3, 1955	21.94	460	1959	October 1958	19.73	161
1956	Sept. 26, 1956	20.18	116				

828.3. Fishing Creek near Warrenton, N. C.

Location.--Lat 36°23', long 78°11', at bridge half a mile downstream from Phoebes Creek, and 2 miles southwest of Warrenton, Warren County.

Drainage area.--44.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	23.17	5,300	1957	Jan. 30, 1957	18.33	1,440
1955	February 1955	21.80	3,900	1958	May 7, 1958	19.71	2,240
1956	May 6, 1956	17.77	1,170	1959	Apr. 13, 1959	16.48	660

830. Fishing Creek near Enfield, N. C.

Location.--Lat 36°09', long 77°42', on right bank 15 ft downstream from bridge on U. S. Highway 301, 2,000 ft downstream from Atlantic Coast Line Railroad bridge, 2 miles southwest of Enfield, Halifax County, 4 $\frac{1}{4}$ miles downstream from Rocky Creek, and at mile 27.7.

Drainage area.--521 sq mi.

Gage.--Nonrecording prior to Oct. 28, 1932; recording thereafter. Datum of gage is 76.26 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by rate of change of stage at all stages.

Bankfull stage.--14 ft (U. S. Weather Bureau).

Historical data.--The maximum stage known is that of Apr. 19, 1910.

Remarks.--Peak stages prior to 1924 from graph based on U. S. Weather Bureau gage readings. Only annual peaks are shown.

Peak stages and discharges of Fishing Creek near Enfield, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Apr. 19, 1910	a20.1	-	1937	Apr. 28, 1937	14.95	5,420
1915	Feb. 5, 1915	13.1	2,940	1938	June 23, 1938	14.06	3,920
				1939	Aug. 31, 1939	17.35	11,600
				1940	Aug. 18, 1940	17.72	12,600
				1941	Mar. 10, 1941	11.71	2,210
1916	Feb. 5, 1916	11.4	2,160	1942	Feb. 18, 1942	11.08	1,950
1917	July 26, 1917	14.4	4,810	1943	Oct. 15, 1942	13.37	3,270
1918	Feb. 3, 1918	16.0	8,130	1944	Mar. 22, 1944	13.68	3,680
1919	July 24, 1919	19.6	20,300	1945	Sept. 20, 1945	16.01	7,700
1920	July 21, 1920	13.6	3,280	1946	Feb. 13, 1946	13.83	3,890
1921	Jan. 16, 1921	12.4	2,570	1947	Sept. 25, 1947	10.68	1,900
1922	Mar. 6, 1922	15.6	7,200	1948	Feb. 17, 1948	14.95	5,810
1923	Mar. 19, 1923	14.5	4,970	1949	Aug. 31, 1949	14.36	4,810
1924	July 2, 1924	16.8	10,600	1950	Nov. 3, 1949	11.2	2,150
1925	Oct. 1, 2, 1924	17.3	12,300	1951	Apr. 10, 1951	10.90	2,030
1926	Feb. 6, 1926	13.4	3,140	1952	Mar. 6, 1952	14.48	5,050
1927	Dec. 31, 1926	12.2	2,480	1953	Nov. 23, 1952	13.35	3,390
1928	Sept. 20, 1928	16.7	9,850	1954	Jan. 24, 1954	15.22	6,340
1929	Mar. 8, 1929	15.02	5,130	1955	Aug. 20, 21, 1955	13.95	3,850
1930	Oct. 24, 1929	16.22	8,480	1956	Mar. 19, 1956	13.78	3,510
1931	Aug. 14, 1931	15.50	6,180	1957	Feb. 4, 1957	14.77	5,500
1932	Mar. 9, 1932	14.64	4,430	1958	May 9, 1958	17.00	12,000
1933	Apr. 19, 1933	12.68	2,710	1959	July 17, 1959	14.55	5,180
1934	Apr. 12, 1934	14.80	4,430				
1935	Dec. 2, 1934	17.66	12,600				
1936	Jan. 21, 1936	15.77	7,720				

a From floodmarks of Atlantic Coast Line Railroad Co. at site 2,000 ft upstream.

830.9. Beaverdam Swamp near Heathsville, N. C.

Location.--Lat 36°17', long 77°42', at culvert on State Highway 561, 3.5 miles northeast of Heathsville, Halifax County, and 6 miles upstream from mouth.

Drainage area.--9.44 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Apr. 13, 1953	18.61	50	1957	-	19.00	95
1954	Jan. 26, 1954	20.23	355	1958	May 6, 1958	23.14	1,520
1955	Sept. 17, 1955	19.79	240	1959	Dec. 29, 1958	19.64	210
1956	Mar. 16, 1956	20.34	390				

834.1. Deep Creek near Scotland Neck, N. C.

Location.--Lat 36°10', long 77°28', at culvert on State Highway 125, 3 miles west of Scotland Neck, Halifax County, and 4½ miles upstream from Canal Creek.

Drainage area.--11.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 730 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Deep Creek near Scotland Neck, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	August 1953	17.12	82	1957	February 1957	18.66	940
1954	January 1954	18.67	940	1958	May 7, 1958	18.49	540
1955	Sept. 5, 1955	19.25	2,300	1959	Apr. 13, 1959	17.76	255
1956	Mar. 16, 1956	18.05	360				

835. Tar River at Tarboro, N. C.

Location.--Lat 35°53'40", long 77°32'00", near right bank on downstream end of pier of bridge on U. S. Highway 64 in Tarboro, Edgecombe County, 6½ miles downstream from Fishing Creek and at mile 46.2.

Drainage area.--2,140 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 1, 1931; recording thereafter. July 26, 1896, to Dec. 31, 1900, at site 600 ft downstream at different datum. Jan. 1, 1905, to Dec. 31, 1931, U. S. Weather Bureau gage at present site at various datums; gage heights corrected to present datum. Datum of gage is 10.37 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 38,000 cfs and extended above. Relation affected by rate of change of stage.

Bankfull stage.--19 ft (U. S. Weather Bureau).

Historical data.--The maximum stage known is that of July 27, 1919.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Mar. 19, 1897	19.70	14,600	1931	Apr. 11, 1931	a17.7	9,480
1898	May 28, 1898	13.70	8,680	1932	Mar. 12, 1932	20.24	12,100
1899	Feb. 11, 1899	25.00	22,400	1933	Apr. 24, 1933	15.95	8,050
1900	Feb. 18, 1900	18.00	12,970	1934	Apr. 16, 1934	22.07	15,900
				1935	Dec. 6, 1934	27.38	23,500
1906	Aug. 23, 1906	a23.5	16,600				
1907	June 6, 1907	a21.2	13,400	1936	Apr. 12, 1936	25.53	20,200
1908	Sept. 1, 1908	a29.4	27,300	1937	Feb. 2, 1937	26.18	21,500
1909	May 5, 1909	a19.7	11,500	1938	Aug. 1, 1938	21.31	13,500
1910	Apr. 23, 1910	a27.3	23,100	1939	Sept. 3, 1939	27.00	23,000
				1940	Aug. 20, 1940	31.77	37,200
1911	Feb. 13, 1911	a17.4	9,210				
1912	Mar. 11, 1912	a17.7	9,480	1941	July 19, 1941	16.68	8,460
1913	Sept. 9, 1913	a21.2	13,400	1942	Mar. 13, 1942	14.83	7,310
1914	Oct. 29, 1913	a19.2	11,000	1943	Jan. 23, 1943	19.00	10,800
1915	Jan. 18, 1915	a19.1	10,900	1944	Mar. 24, 1944	21.57	13,800
				1945	Sept. 23, 1945	c28.13	24,600
1916	Feb. 8, 1916	a16.9	8,770				
1917	Mar. 10, 1917	a23.3	16,200	1946	Feb. 15, 1946	c20.99	13,200
1918	Apr. 16, 1918	a21.0	13,100	1947	Jan. 18, 1947	14.08	6,570
1919	July 27, 1919	34.0	52,800	1948	Feb. 18, 1948	c25.36	19,800
1920	Feb. 9, 1920	b19.1	10,900	1949	Dec. 4, 1948	c22.48	15,300
				1950	Nov. 6, 1949	c14.39	6,990
1921	Jan. 18, 1921	a17.2	9,030				
1922	Mar. 9, 1922	a26.4	21,400	1951	Apr. 13, 1951	13.42	6,250
1923	Mar. 21, 22, 1923	a22.8	15,500	1952	Mar. 9, 1952	24.20	17,600
1924	July 6, 1924	a20.7	12,700	1953	Feb. 20, 1953	c18.13	9,950
1925	Oct. 4, 1924	a33.5	39,800	1954	Jan. 27, 1954	c27.43	23,600
				1955	Aug. 25, 1955	23.54	16,600
1926	Feb. 8, 1926	a19.2	11,000				
1927	Mar. 11, 1927	a17.8	9,570	1956	Mar. 22, 1956	20.87	13,000
1928	Sept. 24, 1928	a30.2	29,200	1957	Feb. 8, 1957	22.83	15,500
1929	Mar. 7, 1929	a25.5	19,800	1958	May 12, 1958	29.17	26,900
1930	Oct. 7, 1929	a27.8	24,000	1959	Jan. 4, 1959	21.72	14,000

a From graph based on U. S. Weather Bureau gage readings.

b Observed, U. S. Weather Bureau gage reading.

c Occurred at different time than peak discharge.

PAMLICO RIVER BASIN

840. Tar River at Greenville, N. C.

Location.--Lat 35°37'00", long 77°22'30", at bridge on State Highway 11 at Greenville, Pitt County, 1 mile below Schoolhouse Branch, and at mile 23.1.

Drainage area.--2,620 sq mi, approximately.

Gage.--Nonrecording June 1, 1905, to Mar. 23, 1935, at Atlantic Coast Line Railroad bridge 600 ft upstream at same datum; recording thereafter. Datum of gage is 2.37 ft below mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--13 ft (U. S. Weather Bureau).

Historical data.--Flood of July 28, 1919, highest since at least 1877.

Remarks.--Gage heights prior to 1936 furnished by U. S. Weather Bureau and are generally once-daily readings with occasional readings on the crest. Only annual peak stages are shown except for 1919 and 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	Nov. 7, 1887	22.3	-	1932	Mar. 14, 1932	14.7	-
1906	Aug. 24, 1906	15.8	-	1933	Apr. 24, 1933	13.0	-
1907	June 9, 1907	14.4	-	1934	Apr. 17, 18, 1934	15.5	-
1908	Sept. 2, 1908	19.4	-	1935	Dec. 8, 1934	18.8	-
1909	May 6, 1909	14.5	-	1936	Apr. 14, 1936	18.13	-
1910	June 19, 1910	18.5	-	1937	Feb. 3, 1937	18.7	-
1911	Jan. 8, 1911	13.4	-	1938	June 29, 1938	15.23	-
1912	Mar. 13, 14, 1912	13.5	-	1939	Sept. 5, 1939	18.60	-
1913	Sept. 10, 1913	15.2	-	1940	Aug. 22, 1940	22.07	36,500
1914	Oct. 30, 1913	14.3	-	1941	July 20, 21, 1941	12.80	-
1915	Jan. 19-21, 1915	14.0	-	1942	Mar. 13, 1942	12.0	-
1916	Feb. 9, 1916	12.9	-	1943	Jan. 24, 1943	13.62	-
1917	Sept. 19, 1917	15.5	-	1944	Mar. 25, 1944	15.58	-
1918	Apr. 28, 1918	14.7	-	1945	Sept. 25, 26, 1945	19.24	-
1919	July 28, 1919	24.5	46,500	1946	Feb. 17, 1946	14.71	-
1920	Feb. 10, 1920	14.6	-	1947	Jan. 19, 1947	10.8	-
1921	Dec. 14, 1920	14.0	-	1948	Feb. 19, 1948	17.63	-
1922	Mar. 11, 1922	19.1	-	1949	Dec. 6, 1948	15.65	-
1923	Mar. 23, 1923	16.6	-	1950	Nov. 7, 1949	10.73	-
1924	July 7, 8, 1924	15.8	-	1951	Apr. 14, 1951	9.76	-
1925	Oct. 6, 1924	23.5	-	1952	Mar. 9, 1952	16.71	-
1926	Feb. 9, 1926	14.6	-	1953	Feb. 21, 22, 1953	12.74	-
1927	Mar. 12, 13, 1927	14.0	-	1954	Jan. 29, 1954	18.77	-
1928	Sept. 25, 1928	21.9	-	1955	Sept. 7, 1955	16.94	-
1929	Mar. 9, 1929	18.6	-	1956	Mar. 23, 1956	14.68	-
1930	Oct. 8, 9, 1929	19.7	-	1957	Feb. 9, 1957	15.48	-
1931	Aug. 18, 19, 1931	13.8	-	1958	May 14, 1958	19.66	-
				1959	Apr. 25, 26, 1959	15.05	-

842.4. Collie Swamp near Everetts, N. C.

Location.--Lat 35°49'30", long 77°12'00", at bridge on U. S. Highway 64, 1.6 miles west of Everetts, Martin County, and 4.8 miles upstream from mouth.

Drainage area.--29.0 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 1, 1953	19.32	310	1957	April 1957	19.29	300
1954	Jan. 23, 1954	20.54	630	1958	Aug. 12, 1958	21.98	1,150
1955	Sept. 20, 1955	23.02	1,900	1959	October 1958	20.56	625
1956	Mar. 16, 1956	19.37	315				

845. Herring Run near Washington, N. C.

Location.--Lat 35°34'03", long 77°01'09", on left bank 10 ft downstream from bridge on county road, 400 ft upstream from Pineywood Branch, $1\frac{1}{4}$ miles upstream from mouth, and $2\frac{3}{4}$ miles northeast of Washington, Beaufort County.

Drainage area.--About 15 sq mi.

Gage.--Nonrecording Jan. 19, 1950, to May 7, 1951; recording thereafter. Altitude of gage is 2 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs and extended above. Frequent shifts in relation occur due to hurricane debris, channel clearing and sandy nature of channel.

Remarks.--Extensive drainage canals above station probably affect peak flows. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	-	17.0	-	1955	Sept. 19, 1955	14.77	548
1951	June 27, 1951	11.21	271	1956	July 10, 1956	10.66	190
1952	Mar. 4, 1952	9.28	145	1957	Mar. 8, 1957	9.2?	110
1953	Sept. 27, 1953	9.22	139	1958	Feb. 26, 1958	9.45	95
1954	Jan. 16, 1954	8.87	120	1959	Mar. 6, 1959	11.05	208
1955	July 7, 1955	9.97	186		Apr. 13, 1959	9.59	132
	Aug. 12, 1955	12.31	302		Apr. 22, 1959	10.31	168
	Aug. 14, 1955	9.88	142		June 24, 1959	9.70	136
	Aug. 17, 1955	11.92	271		July 2, 1959	10.65	184
	Sept. 3, 1955	10.69	190		July 14, 1959	11.54	207
	Sept. 5, 1955	10.11	154		July 16, 1959	10.58	148

a From information by local resident; annual peak only.

PAMLICO RIVER BASIN

845.2. Upper Goose Creek near Yeatsville, N. C.

Location.--Lat 35°31'25", long 76°53'23", at culvert on U. S. Highway 264, 5.2 miles upstream from mouth, and 8.5 miles west of Yeatsville, Beaufort County.

Drainage area.--1.49 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs and extended above by logarithmic plotting. A shift in relation occurred when new culvert was installed in June 1956.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Sept. 27, 1953	19.51	29	1957	December 1956	20.37	58
1954	Jan. 24, 1954	19.86	40	1958	Jan. 8, 1958	19.34	30
1955	Sept. 20, 1955	24.00	300	1959	Mar. 7, 1959	21.36	107
1956	Sept. 26, 1956	21.89	136				

845.7. Acre Swamp near Pinetown, N. C.

Location.--Lat 35°35'02", long 76°50'23", at bridge on State Highway 32, 1 mile upstream from mouth, and 2½ miles southeast of Pinetown, Beaufort County.

Drainage area.--32.2 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 2 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above by combination of logarithmic rating curve extension and flow-over-road measurement at 2,950 cfs. Probably slight backwater effect from Pamlico Sound.

Remarks.--Stream drains large swamp areas with indefinite boundaries and much of the area has extensive drainage canals probably affecting flood peaks. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Aug. 14, 1953	19.66	225	1957	February 1957	20.02	350
1954	Jan. 25, 1954	19.73	248	1958	January 1958	21.35	880
1955	Sept. 21, 1955	24.46	2,950	1959	February 1959	20.13	390
1956	July 10, 1956	19.60	220				

850. Eno River at Hillsboro, N. C.

Location.--Lat 36°04', long 79°06', on right bank 1,000 ft downstream from bridge on State Highway 86, at Hillsboro, Orange County, and 2 miles downstream from Sevenmile Creek.

Drainage area.--66.5 sq mi.

Gage.--Nonrecording prior to June 28, 1937; recording thereafter. Datum of gage is 487.44 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Apr. 28, 1928	14.5	2,840	1944	July 15, 1944	17.30	5,530
	Sept. 6, 1928	14.7	2,940		Sept. 30, 1944	15.4	3,430
	Sept. 19, 1928	16.0	3,880	1945	Oct. 20, 1944	10.74	1,590
1929	Feb. 28, 1929	-	(a)		July 17, 1945	13.83	2,520
					Sept. 18, 1945	20.01	11,000
1930	Oct. 2, 1929	18.0	6,750	1946	Feb. 10, 1946	15.40	3,380
	July 17, 1930	15.0	3,120		July 10, 1946	16.43	4,280
1931	May 21, 1931	16.26	3,880	1947	Jan. 14, 1947	10.84	1,610
	July 25, 1931	12.2	2,180		1948	Nov. 11, 1947	11.08	1,690
	Aug. 14, 1931	16.0	3,750	Jan. 13, 1948		10.78	1,610
1932	Jan. 8, 1932	10.7	1,590	Feb. 14, 1948		12.65	2,110
	Mar. 6, 1932	15.7	3,610	1949	Nov. 28, 1948	14.86	3,060
1933	Nov. 26, 1932	11.1	1,690		Aug. 28, 1949	12.6	2,100
	1934	Apr. 9, 1934	13.00	2,240	1950	Oct. 30, 1949	10.32
1935		Dec. 1, 1934	14.9	3,260		1951	Apr. 8, 1951
	Apr. 1, 1935	10.9	1,680	1952	Dec. 21, 1951		11.63	1,820
	Apr. 21, 1935	11.7	1,980		Jan. 28, 1952	10.34	1,500
1936	Jan. 3, 1936	15.5	3,440		Mar. 4, 1952	16.04	3,880
	Jan. 19, 1936	15.7	3,540	Mar. 24, 1952	10.94	1,640	
	Feb. 13, 1936	11.4	1,730	Aug. 31, 1952	10.76	1,610	
	Apr. 2, 1936	13.1	2,380	1953	Nov. 20, 1952	12.46	2,080
	Apr. 6, 1936	15.66	3,540		Jan. 24, 1953	10.85	1,610
	Aug. 28, 1936	15.95	3,670		Feb. 15, 1953	12.86	2,200
1937	Jan. 20, 1937	13.4	2,500	Mar. 24, 1953	14.84	3,000	
	1938	June 22, 1938	14.8	3,160	1954	Jan. 22, 1954	10.94	1,640
June 28, 1938		15.6	3,520	1955		Feb. 7, 1955	11.24	1,710
July 24, 1938		15.80	3,610		Apr. 14, 1955	10.36	1,520
1939	Feb. 10, 1939	13.27	2,520		Aug. 17, 1955	15.60	3,530
	Mar. 30, 1939	11.24	1,770	Sept. 2, 1955	12.12	1,960	
	May 2, 1939	12.36	2,140	1956	Mar. 16, 1956	13.07	2,270
	June 3, 1939	14.14	2,840		1957	Feb. 1, 1957	15.05	3,120
	July 6, 1939	12.00	2,040	Mar. 1, 1957		10.38	1,540
	Aug. 18, 1939	16.90	4,910	1958	Nov. 25, 1957	11.18	1,710
	Aug. 28, 1939	14.03	2,800		Jan. 14, 1958	12.7	2,140
	1940	Feb. 7, 1940	11.45		1,830	Jan. 25, 1958	11.03	1,660
June 18, 1940		11.10	1,740	Apr. 6, 1958	13.10	2,270	
Aug. 14, 1940		10.90	1,680	Apr. 11, 1958	12.36	2,050	
1941	Nov. 14, 1940	12.38	2,180	1959	Dec. 28, 1958	10.70	1,600
	1942	Feb. 17, 1942	10.91		1,680		
Mar. 9, 1942		11.01	1,710				
May 16, 1942		11.26	1,800				
1943	Nov. 24, 1942	10.77	1,650				

a Unknown, occurred during period of no gage-height record; annual peak only.

850.2. Stony Creek tributary near Hillsboro, N. C.

Location.--Lat 36°03', long 79°02', at culvert 1 mile upstream from mouth, and $4\frac{1}{4}$ miles southeast of Hillsboro, Orange County.

Drainage area.--1.12 sq mi.

Gage.--Crest-stage gage. Datum of gage is 496.43 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurement at 37 cfs and by theoretical culvert computations to 230 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	March 1953	23.6	230	1957	Jan. 31, 1957	20.44	72
1954	Jan. 22, 1954	19.66	41	1958	April 1958	21.55	123
1955	Apr. 14, 1955	21.95	144	1959	Dec. 28, 1958	20.05	55
1956	Mar. 16, 1956	20.10	57				

851.9. North Fork Little River tributary near Rougemont, N. C.

Location.--Lat 36°12', long 79°01', at culvert on State Highway 57, $1\frac{1}{2}$ miles upstream from mouth, and 6 miles west of Rougemont, Orange County.

Drainage area.--1.43 sq mi.

Gage.--Crest-stage gage. Datum of gage is 556.44 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs, extended above by culvert measurement at 207 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	March 1954	20.77	74	1957	June 5, 1957	22.36	207
1955	Sept. 30, 1955	21.61	122	1958	January 1958	21.67	125
1956	Aug. 13, 1956	21.97	158	1959	Dec. 28, 1958	21.61	121

855. Flat River at Bahama, N. C.

Location.--Lat 36°10'57", long 78°52'44", on right bank half a mile upstream from Lake Michie, $1\frac{1}{4}$ miles upstream from highway bridge, $1\frac{1}{4}$ miles north of Bahama, Durham County, and $1\frac{1}{2}$ miles upstream from Dial Creek.

Drainage area.--150 sq mi.

Gage.--Recording. Datum of gage is 346.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges of Flat River at Bahama, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Feb. 3, 1926	6.69	3,610	1942	May 16, 1942	7.15	4,410
1927	Dec. 29, 1926	7.32	4,580	1943	Oct. 15, 1942	8.30	6,460
1928	Apr. 28, 1928	9.26	8,670	1944	Nov. 24, 1942	7.47	4,930
	Sept. 19, 1928	8.04	5,860		Apr. 12, 1944	9.00	7,970
1929	Feb. 28, 1929	8.71	7,300	Sept. 19, 1944	8.92	7,740	
	Mar. 5, 1929	8.57	7,090	Sept. 30, 1944	8.80	7,520	
	Apr. 16, 1929	7.67	5,290	1945	Feb. 13, 1945	7.56	5,100
1930	Oct. 2, 1929	10.85	12,500	Sept. 18, 1945	11.90	16,100	
	July 18, 1930	9.03	7,970	1946	Feb. 10, 1946	7.90	5,670
1931	May 21, 1931	8.54	6,880	1947	Sept. 25, 1947	6.39	3,050
	Aug. 11, 1931	7.83	5,480	1948	Feb. 14, 1948	8.27	6,500
1932	Jan. 8, 1932	7.41	4,750	May 31, 1948	8.42	6,820	
	Mar. 6, 1932	8.65	7,090	1949	Nov. 29, 1948	8.58	7,250
1933	May 13, 1933	7.38	4,750	1950	June 30, 1950	6.41	3,200
1934	Apr. 9, 1934	9.48	9,170	1951	Apr. 8, 1951	6.23	3,580
	Sept. 8, 1934	11.14	13,600	1952	Dec. 21, 1951	6.98	4,750
1935	Nov. 29, 1934	8.26	6,460	Mar. 4, 1952	8.05	6,500	
	Dec. 1, 1934	8.47	6,880	Aug. 31, 1952	9.78	10,500	
	Apr. 21, 1935	8.03	5,860	1953	Nov. 20, 1952	9.35	9,500
1936	Jan. 3, 1936	8.85	7,520	Mar. 24, 1953	8.43	7,300	
	Jan. 19, 1936	9.26	8,670	1954	Mar. 14, 1954	7.12	4,910
	Feb. 14, 1936	7.39	4,750	1955	July 13, 1955	8.67	7,900
	Mar. 17, 1936	9.26	8,670	Aug. 18, 1955	11.60	15,300	
	Apr. 2, 1936	7.48	4,930	1956	Oct. 1, 1955	8.81	8,100
	Apr. 6, 1936	9.04	7,970	Mar. 16, 1956	7.17	5,070	
1937	Jan. 20, 1937	7.90	5,670	May 4, 1956	7.88	6,310	
	Apr. 26, 1937	9.56	9,420	1957	Feb. 1, 1957	8.06	6,700
1938	June 22, 1938	11.26	14,200	1958	Jan. 25, 1958	7.02	4,750
	July 24, 1938	8.17	6,260	Apr. 11, 1958	7.44	5,400	
	July 26, 1938	-	20,000	1959	Dec. 29, 1958	8.65	7,700
1939	May 2, 1939	7.76	5,480	June 4, 1959	8.17	6,900	
	Aug. 18, 1939	9.52	9,170				
1940	May 24, 1940	9.67	9,670				
1941	Nov. 14, 1940	7.59	5,110				

860. Dial Creek near Bahama, N. C.
(Published as "at Bahama" prior to 1930)

Location.--Lat 36°10'36", long 78°51'24", on right bank three-eighths of a mile upstream from mouth and Lake Michie and 1½ miles northeast of Bahama, Durham County.

Drainage area.--4.71 sq mi.

Gage.--Recording. Datum of gage is 357.67 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above by combination of slope-area and flow-over-dam measurements at 752 cfs.

Remarks.--Base for partial-duration series, 160 cfs.

NEUSE RIVER BASIN

Peak stages and discharges of Dial Creek near Bahama, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Feb. 25, 1926	4.50	a550	1945	July 14, 1945	3.85	274
					July 24, 1945	3.55	192
1927	Dec. 28, 1926	3.25	134		Aug. 23, 1945	3.60	203
					Sept. 17, 1945	4.98	818
1928	Apr. 27, 1928	5.60	1,330	1946	Feb. 10, 1946	3.64	214
	May 23, 1928	4.10	360				
	June 4, 1928	4.35	475	1947	Aug. 8, 1947	3.79	256
	Sept. 19, 1928	4.00	324				
1929	Feb. 28, 1929	4.25	426	1948	Oct. 9, 1947	3.83	268
	Mar. 5, 1929	4.40	500		Nov. 11, 1947	3.53	187
					Feb. 14, 1948	3.65	216
1930	Oct. 2, 1929	5.34	1,090		May 30, 1948	4.09	356
	July 17, 1930	3.78	253				
1931	Aug. 11, 1931	3.99	321	1949	Nov. 28, 1948	3.75	244
					July 19, 1949	3.47	174
1932	Mar. 6, 1932	3.95	307		Aug. 28, 1949	3.47	174
1933	Oct. 17, 1932	3.30	142	1950	July 1, 1950	3.41	162
					July 9, 1950	4.01	328
1934	Apr. 9, 1934	4.10	360		July 12, 1950	3.40	160
1935	Nov. 29, 1934	4.50	550	1951	Apr. 3, 1951	3.02	98
	Dec. 1, 1934	3.40	160				
	Mar. 31, 1935	3.70	230	1952	Mar. 4, 1952	3.95	307
	Apr. 21, 1935	3.49	178		Mar. 10 or 11, 1952	3.42	164
	Sept. 6, 1935	3.52	185		July 31, 1952	4.14	377
1936	Jan. 3, 1936	3.90	290		Aug. 6, 1952	4.68	644
	Jan. 19, 1936	4.75	682		Aug. 31, 1952	4.83	728
	Feb. 14, 1936	3.50	180	1953	Nov. 20, 1952	3.58	198
	Mar. 17, 1936	3.93	300		Jan. 24, 1953	3.69	227
1937	Oct. 1, 1936	3.45	170		Feb. 15, 1953	3.50	180
	Dec. 31, 1936	3.40	160		Mar. 24, 1953	4.23	416
	Apr. 5, 1937	3.75	244		June 13, 1953	5.25	1,010
	Apr. 25, 1937	4.06	346		June 17, 1953	3.50	180
1938	June 21, 1938	4.90	770	1954	Jan. 22, 1954	3.48	176
	July 24, 1938	4.22	412		Mar. 14, 1954	3.88	284
	July 26, 1938	5.30	1,050	1955	Mar. 6, 1955	3.68	225
1939	Jan. 30, 1939	3.58	198		Aug. 17, 1955	4.48	540
	Feb. 9, 1939	3.60	203	1956	Mar. 16, 1956	3.79	256
	May 2, 1939	3.55	192				
	July 5, 1939	3.55	192	1957	Feb. 1, 1957	4.02	331
	July 26, 1939	3.50	180		Apr. 23, 1957	3.65	216
	Aug. 18, 1939	4.35	475		June 5, 1957	4.14	377
	Aug. 28, 1939	3.90	290		Aug. 25, 1957	3.40	160
1940	Apr. 20, 1940	3.62	208	1958	Jan. 25, 1958	3.44	168
	May 24, 1940	7.60	(b)		Apr. 6, 1958	4.08	353
	June 18, 1940	4.50	550		Apr. 11, 1958	3.68	225
1941	Nov. 14, 1940	3.47	174		May 6, 1958	3.62	208
1942	Aug. 9, 1942	3.41	162		July 17, 1958	3.50	180
1943	Dec. 30, 1942	3.47	164		Aug. 17, 1958	3.76	247
1944	Sept. 30, 1944	4.12	368	1959	Dec. 28, 1958	4.16	385
					June 4, 1959	4.04	338
					Sept. 6, 1959	3.97	314

a Annual peak only.

b Unknown, but probably greater than 3,000 cfs.

865. Flat River at dam, near Bahama, N. C.

Location.--Lat 36°08'55", long 78°49'43", on right bank 900 ft downstream from Durham municipal dam, 3 miles southeast of Bahama, Durham County, and 5 miles upstream from confluence with Eno River.

Drainage area.--171 sq mi.

Gage.--Recording. Datum of gage is 255.05 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above by flow-over-dam measurement at 13,500 and 19,500 cfs. Shift in relation occurred as result of channel improvement in 1944.

Remarks.--Considerable regulation by Lake Michie (usable capacity, 12,610 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Apr. 28, 1928	14.6	8,560	1944	Sept. 30, 1944	13.48	7,940
1929	Feb. 28, 1929	13.74	7,230	1945	Sept. 18, 1945	16.90	14,000
1930	Oct. 2, 1929	16.72	12,400				
				1946	Feb. 10, 1946	11.71	5,500
1931	Aug. 11, 1931	9.95	3,400	1947	Jan. 20, 1947	8.95	3,150
1932	Mar. 7, 1932	12.54	5,720	1948	Feb. 14, 1948	12.98	7,050
1933	Apr. 17, 1933	8.17	2,350	1949	Nov. 29, 1948	13.22	7,330
1934	Sept. 8, 1934	16.46	12,000	1950	Nov. 2, 1949	8.83	3,030
1935	Dec. 1, 1934	12.82	6,060				
				1951	Apr. 8, 1951	8.42	2,790
1936	Jan. 19, 1936	13.98	7,650	1952	Sept. 1, 1952	15.10	10,300
1937	Apr. 26, 1937	14.10	7,800	1953	Nov. 20, 1952	14.50	9,300
1938	July 26, 1938	19.50	19,700	1954	Mar. 14, 1954	11.24	5,000
1939	Aug. 18, 1939	14.27	8,100	1955	Aug. 18, 1955	17.26	14,900
1940	May 25, 1940	11.86	4,700				
				1956	Oct. 1, 1955	13.60	7,900
1941	Nov. 15, 1940	10.77	3,940	1957	Feb. 1, 1957	13.14	7,190
1942	May 17, 1942	8.12	2,360	1958	Apr. 11, 1958	11.38	5,200
1943	Oct. 15, 1942	12.13	4,840	1959	Dec. 28, 1958	13.6	7,900

870. Neuse River near Northside, N. C.

Location.--Lat 36°02'54", long 78°44'59", on right bank 25 ft upstream from Fish Dam Bridge, 1½ miles downstream from Rocky Creek, 2½ miles downstream from Seaboard Air Line Railroad bridge, 2½ miles south of Northside, Granville County, 8½ miles downstream from confluence of Eno and Flat Rivers, and 9½ miles northeast of Durham, Durham County.

Drainage area.--526 sq mi.

Gage.--Nonrecording July 27, 1927, to June 1, 1928; recording thereafter. Datum of gage is 225.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Auxiliary nonrecording gage at site 4 miles upstream, at same datum Mar. 25, 1949, to Sept. 28, 1950; auxiliary recording gage thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 34,000 cfs and extended above.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 4,500 cfs.

NEUSE RIVER BASIN

Peak stages and discharges of Neuse River near Northside, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Apr. 28, 1928	24.4	15,800	1950	July 10, 1950	17.32	4,910
1929	Mar. 1, 1929	23.50	13,800				
1930	Oct. 3, 1929	28.64	26,600	1951	Apr. 10, 1951	16.67	4,340
1931	Apr. 7, 1931	17.98	5,680	1952	Dec. 22, 1951	16.69	4,530
1932	Mar. 7, 1932	21.71	9,300		Jan. 29, 1952	17.28	4,850
1933	Dec. 27, 1932	16.85	4,470		Mar. 5, 1952	22.90	11,200
1934	Apr. 10, 1934	23.60	14,000		Sept. 2, 1952	22.28	9,940
1935	Nov. 30, 1934	22.35	11,300	1953	Nov. 21, 1952	23.12	11,200
1936	Apr. 7, 1936	23.83	14,400		Jan. 25, 1953	17.80	5,120
1937	Apr. 27, 1937	21.86	10,600		Feb. 16, 1953	19.35	6,360
1938	July 27, 1938	26.85	22,100		Mar. 25, 1953	21.97	9,300
1939	Aug. 19, 1939	24.10	15,200	1954	Jan. 23, 1954	20.75	7,620
1940	May 26, 1940	17.27	4,500	1955	Aug. 19, 1955	24.08	13,200
1941	Nov. 15, 1940	a19.00	6,180	1956	Mar. 17, 1956	20.20	7,120
1942	May 17, 1942	16.50	4,260		Apr. 13, 1956	17.28	4,790
1943	Apr. 20, 1943	a17.90	5,280	1957	Feb. 2, 1957	23.00	11,000
1944	Apr. 13, 1944	19.40	6,400		Mar. 2, 1957	17.96	5,260
1945	Sept. 18, 1945	31.02	36,600	1958	Nov. 27, 1957	17.88	5,190
1946	Feb. 11, 1946	21.80	10,200		Jan. 15, 1958	18.07	5,330
1947	Jan. 21, 1947	18.77	6,040		Jan. 26, 1958	18.84	5,850
1948	Nov. 13, 1947	18.56	6,030		Feb. 28, 1958	18.10	5,330
	Jan. 14 or 15	17.12	4,770		Apr. 7, 1958	18.80	5,850
	Feb. 15, 1948	22.80	12,200		Apr. 12, 1958	18.07	5,330
	Mar. 8, 1948	16.66	4,570		May 6, 1958	20.84	7,780
	Apr. 2, 1948	17.08	4,820	1959	Dec. 30, 1958	20.25	7,120
1949	Nov. 30, 1948	21.90	10,700		Apr. 14, 1959	18.05	5,260
	Dec. 5, 1948	18.30	4,800				
	Dec. 31, 1948	18.22	5,690				
1950	Nov. 3, 1949	18.70	6,030				

a Occurred at different time than peak discharge.

870.3. Lick Creek near Durham, N. C.

Location.--Lat 35°58'50", long 78°44'19", at culvert on State Highway 98, 0.2 mile downstream from Rocky Branch, and 8 miles east of Durham, Durham County.

Drainage area.--13.6 sq mi.

Gage.--Crest-stage gage. Datum of gage is 235.75 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 720 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 24, 1954	20.74	930	1957	February 1957	19.37	535
1955	Aug. 17, 1955	21.14	1,040	1958	May 1958	19.55	640
1956	Mar. 16, 1956	20.56	870	1959	April 1959	19.91	705

871.4. Lower Barton Creek tributary near Raleigh, N. C.

Location.--Lat 35°54'44", long 78°40'55", at culvert on State Highway 50, 1.6 miles upstream from mouth, and 7 miles north of Raleigh, Wake County.

Drainage area.--0.63 sq mi.

Gage.--Crest-stage gage. Datum of gage is 328.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by a current-meter measurement at 48.7 cfs and culvert measurements at 165 and 248 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 22, 1954	20.35	55	1957	May 11, 1957	23.08	248
1955	Sept. 3, 1955	22.02	165	1958	May 1958	20.77	79
1956	June 2, 1956	21.14	104	1959	July 30, 1959	22.57	208

871.91. Neuse River near Neuse, N. C.

Location.--Lat 35°54'32", long 78°33'18", at bridge on U. S. Highway 1, 1 mile upstream from Smith Creek, and 1¼ miles northeast of Neuse, Wake County.

Drainage area.--790 sq mi.

Gage.--Nonrecording. Datum of gage is 178.9 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--12 ft (U. S. Weather Bureau).

Remarks.--Only annual peak stages are shown. Gage heights furnished by U. S. Weather Bureau and are generally once-daily readings with occasional readings on the crest.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	23.0	-	1936	Apr. 9, 1936	19.6	-
1912	Mar. 18, 1912	19.4	-	1937	Aug. 26, 1937	18.2	-
1913	Sept. 4, 1913	18.5	-	1938	July 29, 1938	22.0	-
1914	Feb. 22, 23, 1914	15.9	-	1939	Aug. 19, 1939	19.9	-
1915	Dec. 27, 1914	17.8	-	1940	Aug. 16, 1940	16.8	-
1916	Feb. 5, 1916	18.4	-	1941	Nov. 17, 1940	15.2	-
1917	Mar. 5, 1917	17.6	-	1942	May 19, 1942	14.3	-
1918	Apr. 23, 1918	16.5	-	1943	Jan. 20, 1943	16.8	-
1919	July 24, 1919	24.8	-	1944	Apr. 15, 1944	16.7	-
1920	July 21, 1920	17.2	-	1945	Sept. 21, 1945	26.0	-
1921	Feb. 13, 1921	17.3	-	1946	Feb. 13, 1946	18.2	-
1922	Feb. 6, Mar. 5	18.6	-	1947	Jan. 23, 1947	16.6	-
1923	Mar. 17, 1923	18.3	-	1948	Feb. 17, 1948	19.3	-
1924	Sept. 30, 1924	19.3	-	1949	Dec. 2, 1948	18.3	-
1925	Oct. 2, 1924	20.7	-	1950	Nov. 4, 1949	16.5	-
1926	Feb. 5, 21, 1926	14.6	-	1951	Apr. 11, 1951	14.9	-
1927	Dec. 31, 1926	14.7	-	1952	Mar. 7, 1952	19.4	-
1928	Sept. 22, 1928	20.0	-	1953	Nov. 24, 1952	19.2	-
1929	Mar. 3, 1929	19.3	-	1954	Jan. 23, 1954	19.0	-
1930	Oct. 4, 1929	23.7	-	1955	Aug. 19, 1955	19.0	-
1931	Aug. 5, 1931	17.0	-	1956	Mar. 17, 1956	18.0	-
1932	Mar. 9, 1932	17.9	-	1957	Feb. 4, 1957	19.5	-
1933	Dec. 28, 1932	15.3	-	1958	May 8, 1958	19.5	-
1934	Apr. 12, 1934	19.0	-	1959	Jan. 1, 1959	18.2	-
1935	Nov. 30, 1934	21.4	-				

NEUSE RIVER BASIN

872.4. Stirrup Iron Creek tributary near Nelson, N. C.

Location.--Lat 35°53'06", long 78°49'37", at culvert 0.5 mile upstream from mouth and 1½ miles east of Nelson, Durham County.

Drainage area.--0.25 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by theoretical culvert computations and culvert measurement at 172 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Aug. 31, 1952	50.5	172	1956	Mar. 16, 1956	46.39	38
				1957	Sept. 29, 1957	46.88	51
1954	January 1954	46.35	37	1958	May 1958	49.03	132
1955	August 1955	47.13	59	1959	July 30, 1959	49.53	148

875. Neuse River near Clayton, N. C.

Location.--Lat 35°39', long 78°25', on left bank 5 ft downstream from bridge on State Highway 42, 1.8 miles upstream from Mill Creek, and 3 miles east of Clayton, Johnston County.

Drainage area.--1,140 sq mi, approximately.

Gage.--Recording. Prior to Mar. 18, 1942, at site 1,100 ft upstream at same datum. Datum of gage is 128.41 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 7,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	July 23, 1919	21.15	a21,200	1937	Jan. 7, 1937	10.80	7,420
1928	Dec. 5, 1927	11.90	8,670	1937	Jan. 27, 1937	11.09	7,720
	May 2, 1928	12.53	9,330	1937	Jan. 30, 1937	13.22	9,920
	Sept. 7, 1928	-	(b)	1937	Apr. 27, 1937	12.00	8,620
	Sept. 20, 1928	17.5	16,000	1937	Aug. 27, 1937	12.98	9,700
				1938	July 30, 1938	15.01	12,000
1929	Mar. 6, 1929	16.22	13,800	1939	Feb. 11, 1939	15.23	12,300
	July 3, 1929	10.53	7,130	1939	Mar. 2, 1939	11.20	7,820
1930	Oct. 3, 1929	21.62	22,000	1939	Aug. 20, 1939	13.95	10,800
	Oct. 22, 1929	12.23	9,020	1939	Aug. 30, 1939	15.00	12,000
1931	Aug. 1, 1931	11.05	7,700	1940	Apr. 21, 1940	11.00	7,620
	Aug. 6, 1931	14.00	11,000	1940	Aug. 16, 1940	14.6	11,500
1932	Mar. 8, 1932	13.04	9,900	1941	Apr. 6, 1941	9.92	6,520
1933	Apr. 18, 1933	-	7,500	1942	Feb. 18, 1942	9.66	6,030
1934	Apr. 10-15, 1934	12.2	9,020	1943	Jan. 20, 1943	11.45	8,250
1935	Dec. 1, 1934	18.70	17,000	1944	Mar. 21, 1944	12.20	9,120
1936	Jan. 5, 1936	13.22	9,920	1945	Oct. 2, 1944	15.83	13,800
	Jan. 21, 1936	12.68	9,370	1945	Dec. 1, 1944	10.28	7,150
	Feb. 16, 1936	13.40	10,100	1945	July 21, 1945	11.00	7,500
	Mar. 22, 1936	11.78	8,420	1945	Sept. 19, 1945	22.12	22,900
	Apr. 8, 1936	15.40	12,600	1946	Dec. 30, 1945	11.77	8,520
	July 31, 1936	10.81	7,420		1946	Feb. 12, 1946	12.24	8,950
1937	Dec. 13, 1936	13.00	9,700				

a Annual peak only.

b Unknown, but probably greater than 7,100 cfs.

Peak stages and discharges of Neuse River near Clayton, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Sept. 22, 1947	12.17	8,950	1954	Jan. 17, 1954	12.83	9,450
1948	Feb. 15, 1948	14.16	11,200	Jan. 24, 1954	16.10	13,400	
				Feb. 22, 1954	10.55	7,270	
1949	Nov. 30, 1948	12.54	9,150	1955	Aug. 19, 1955	14.59	11,500
	June 30, 1949	10.92	7,550	Sept. 4, 1955	14.36	11,300	
	Aug. 30, 1949	11.48	8,150				
1950	May 16, 1950	10.10	6,790	1956	Mar. 18, 1956	12.08	8,750
1951	Apr. 12, 1951	7.82	4,680	1957	Feb. 6, 1957	12.50	9,150
				Mar. 2, 1957	10.62	7,270	
1952	Dec. 30, 1951	10.80	7,460	May 13, 1957	12.25	8,850	
	Mar. 5, 1952	15.72	12,900	1958	Nov. 27, 1957	11.18	7,850
	Sept. 2, 1952	12.95	9,650	May 8, 1958	16.40	13,800	
				Aug. 27, 1958	11.67	8,350	
1953	Nov. 25, 1952	11.81	8,450	1959	Dec. 30, 1958	11.58	8,250
	Jan. 25, 1953	10.63	7,270	Apr. 14, 1959	10.90	7,550	
	Feb. 16, 1953	10.77	7,460	Apr. 21, 1959	10.81	7,460	
	Mar. 28, 1953	10.46	7,170				

875.66. Neuse River at Smithfield, N. C.

Location.--Lat 35°31', long 78°21', at bridge on U.S. Highway 70 at Smithfield, Johnston County, and 1 1/4 miles upstream from Swift Creek.

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

Gage.--Nonrecording. At site 400 ft upstream at datum 0.39 ft higher July 1, 1911, to Oct. 30, 1925. At present site at datum 0.10 ft lower Nov. 1, 1925, to Feb. 25, 1946. Datum of gage is 99.26 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--13 ft (U.S. Weather Bureau).

Remarks.--Only annual peak stages are shown. Gage heights furnished by U.S. Weather Bureau and are generally once-daily readings with occasional readings on the crest.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Aug. 16, 1908	26.0	-	1936	Apr. 9, 1936	20.7	-
				1937	Jan. 31, 1937	19.2	-
1912	Mar. 20, 1912	18.2	-	1938	July 31, 1938	19.5	-
1913	Sept. 5, 1913	19.0	-	1939	Feb. 13, 1939	19.5	-
1914	Feb. 22-23, 1914	17.1	-	1940	Aug. 17, 1940	19.0	-
1915	Dec. 28, 1914	17.8	-				
				1941	July 16, 1941	16.5	-
1916	Feb. 8, 1916	17.1	-	1942	Sept. 9, 1942	14.8	-
1917	Mar. 7, 1917	18.3	-	1943	Jan. 21, 1943	18.2	-
1918	Apr. 23, 1918	17.4	-	1944	Mar. 22, 1944	19.0	-
1919	July 24, 1919	26.4	-	1945	Sept. 20, 1945	26.0	-
1920	July 22, 1920	19.3	-				
				1946	Dec. 31, 1945	18.5	-
1921	Feb. 13, 1921	17.8	-	1947	Jan. 22, 1947	16.6	-
1922	Mar. 6, 1922	19.6	-	1948	Feb. 16, 1948	20.4	-
1923	Mar. 19, 1923	18.4	-	1949	Aug. 31, 1949	19.0	-
1924	Sept. 30, 1924	22.0	-	1950	Nov. 5, 1949	15.7	-
1925	Oct. 1, 1924	24.0	-				
				1951	Apr. 12, 1951	14.3	-
1926	Feb. 5, 1926	16.9	-	1952	Mar. 7, 1952	22.4	-
1927	Mar. 9-10, 1927	15.9	-	1953	Nov. 27, 1952	19.1	-
1928	Sept. 21, 1928	23.0	-	1954	Jan. 24, 1954	22.8	-
1929	Mar. 7, 1929	21.5	-	1955	Sept. 5, 1955	22.7	-
1930	Oct. 3, 1929	26.5	-				
				1956	Mar. 19, 1956	19.0	-
1931	Aug. 7, 1931	19.0	-	1957	Feb. 7, 1957	19.0	-
1932	Mar. 9, 1932	18.4	-	1958	May 9, 1958	22.7	-
1933	Apr. 19, 1933	16.5	-	1959	Apr. 22, 1959	19.0	-
1934	Apr. 15, 1934	18.0	-				
1935	Dec. 2, 1934	22.5	-				

NEUSE RIVER BASIN

875.8. Swift Creek near Apex, N. C.

Location.--Lat 35°43', long 78°45', at bridge 2 $\frac{3}{4}$ miles downstream from Williams Creek, and 6 miles east of Apex, Wake County.

Drainage area.--19.5 sq mi.

Gage.--Crest-stage gage. Datum of gage is 280.80 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 22, 1954	22.78	1,870	1957	May 11, 1957	24.02	3,150
1955	Aug. 18, 1955	23.66	2,750	1958	May 7, 1958	22.77	1,850
1956	June 2, 1956	23.11	2,160	1959	July 30, 1959	21.81	1,200

879.1. Middle Creek near Holly Springs, N. C.

Location.--Lat 35°39', long 78°48', at culvert 1 mile upstream from Oxford Lake, and $\frac{1}{4}$ miles northeast of Holly Springs, Wake County.

Drainage area.--8.23 sq mi.

Gage.--Crest-stage gage. Datum of gage is 295.88 ft above mean sea level, datum of 1926, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 970 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 21, 1954	24.71	1,000	1957	June 9, 1957	24.26	800
1955	Sept. 3, 1955	24.81	1,070	1958	May 8, 1958	23.76	600
1956	Sept. 26, 1956	24.81	1,070	1959	Aug. 30, 1959	22.91	370

880. Middle Creek near Clayton, N. C.

Location.--Lat 35°34', long 78°36', on right bank 300 ft downstream from bridge on State Highway 50, a quarter of a mile upstream from Buffalo Branch, $3\frac{1}{4}$ miles downstream from county line, and $9\frac{1}{4}$ miles southwest of Clayton, Johnston County.

Drainage area.--80.7 sq mi.

Gage.--Recording. Datum of gage is 184.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 22, 1940	6.51	577	1942	June 11, 1942	6.98	690
					Aug. 20, 1942	7.92	950
1941	Apr. 6, 1941	8.20	1,060		Sept. 8, 1942	9.16	1,430
	July 11, 1941	7.54	825	1943	Jan. 19, 1943	9.20	1,430
	July 12, 1941	7.47	825		June 10, 1943	7.90	950
	July 15, 1941	9.04	1,350		July 14, 1943	10.39	2,260
	July 18, 1941	8.76	1,270				

Peak stages and discharges of Middle Creek near Clayton, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Jan. 4, 1944	7.53	825	1953	Jan. 25, 1953	8.42	1,070
	Jan. 16, 1944	7.72	885		Feb. 16, 1953	8.47	1,100
	Mar. 8, 1944	6.72	644		Mar. 16, 1953	7.86	915
	Mar. 14, 1944	6.60	622		Apr. 14, 1953	7.66	865
	Mar. 21, 1944	9.60	1,600	1954	Jan. 17, 1954	9.29	1,460
	Apr. 13, 1944	7.52	825		Jan. 23, 1954	11.34	3,070
			Feb. 22, 1954		10.33	2,180	
1945	Oct. 1, 1944	7.85	960	1955	Aug. 18, 1955	9.81	1,760
	Aug. 5, 1945	9.96	1,800		Sept. 1, 1955	9.23	1,380
	Sept. 18, 1945	11.70	3,460		Sept. 4, 1955	13.14	5,400
1946	Dec. 6, 1945	7.02	643	1956	Mar. 17, 1956	9.32	1,330
	Apr. 27, 1946	7.86	950				
1947	Sept. 22, 1947	7.73	850	1957	Nov. 2, 1956	8.23	894
1948	Feb. 7, 1948	7.31	730		Dec. 17, 1956	7.14	666
	Feb. 14, 1948	9.50	1,550		May 13, 1957	7.47	770
1949				June 9, 1957	10.42	2,030	
	Nov. 30, 1948	8.49	1,090	1958	Oct. 2, 1957	7.10	666
	May 11, 1949	11.52	3,260		Nov. 26, 1957	8.05	910
	June 30, 1949	9.95	1,800		Jan. 15, 1958	7.17	692
	Aug. 17, 1949	8.28	1,090		May 1, 1958	6.86	638
	Aug. 21, 1949	8.80	1,270		May 7, 1958	11.70	3,720
Aug. 29, 1949	10.70	2,520	Aug. 27, 1958		8.24	1,030	
1950	May 17, 1950	5.46	426	1959	Dec. 30, 1958	7.90	930
1951	Apr. 9, 1951	5.02	360		Feb. 6, 1959	6.68	610
					Mar. 7, 1959	7.11	695
1952	Mar. 4, 1952	11.89	3,660	Apr. 13, 1959	8.52	1,150	
	Mar. 25, 1952	7.07	720	Apr. 20, 1959	9.15	1,510	
	Aug. 21, 1952	8.29	1,030	June 4, 1959	8.17	1,030	
	Sept. 1, 1952	12.31	4,100	July 15, 1959	6.75	630	
	Sept. 23, 1952	7.27	765	Sept. 4, 1959	9.64	1,760	
1953	Nov. 22, 1952	7.05	700	Sept. 7, 1959	8.33	1,070	

881.4. Stone Creek near Newton Grove, N. C.

Location--Lat 35°20', long 78°22', at bridge on U.S. Highway 701 in Johnston County, 1 mile upstream from mouth, and 6½ miles north of Newton Grove.

Drainage area--27.9 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 650 cfs and extended above by logarithmic plotting.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 13, 1953	20.12	265	1957	Mar. 10, 1957	20.46	353
1954	February 1954	20.85	475	1958	May 7, 1958	20.50	365
1955	Aug. 17, 1955	22.50	1,150	1959	July 31, 1959	22.39	1,100
1956	Sept. 26, 1956	20.24	298				

882.1. Hannah Creek near Benson, N. C.

Location.--Lat 35°24', long 78°31', at culvert on U.S. Highway 301, 2 miles northeast of Benson, Johnston County, and 3 miles upstream from Stony Fork.

Drainage area.--2.59 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 90 cfs and extended above on basis of culvert measurement at 808 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 1953	21.68	190	1957	Nov. 22, 1956	21.30	141
1954	Jan. 22, 1954	20.52	92	1958	Feb. 27, 1958	20.36	83
1955	Aug. 12, 1955	20.69	105	1959	June 5, 1959	23.17	808
1956	Sept. 26, 1956	21.63	190				

884.2. Long Creek near Selma, N. C.

Location.--Lat 35°38', long 78°15', at culvert on State Highway 39, 2 $\frac{3}{4}$ miles upstream from mouth, and 7 miles northeast of Selma, Johnston County.

Drainage area.--6.87 sq mi.

Gage.--Crest-stage gage. Datum of gage is 155.19 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs and extended above on basis of culvert measurement at 1,180 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 12, 1953	22.65	1,100	1957	June 9, 1957	22.78	1,180
1954	January 1954	22.86	1,200	1958	Aug. 26, 1958	22.25	520
1955	August 1955	22.34	600	1959	April 1959	21.97	310
1956	Mar. 16, 1956	22.57	900				

885. Little River near Princeton, N. C.

Location.--Lat 35°30'40", long 78°09'30", on left bank 600 ft downstream from highway bridge, three-quarters of a mile upstream from Little Creek, and 3 miles north of Princeton, Johnston County.

Drainage area.--229 sq mi.

Gage.--Nonrecording prior to Nov. 17, 1934; recording thereafter. Datum of gage is 107.75 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base of partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	July 1919	a14.57	-	1931	May 11, 1931	9.6	2,210
1924	September 1924	a14.90	-		July 6, 1931	8.05	1,670
					Aug. 7, 1931	7.0	1,370
1928	September 1928	a13.3	-		Aug. 15, 1931	10.06	2,380
					Aug. 23, 1931	7.9	1,640
1930	October 1929	a13.47	-	1932	Mar. 10, 1932	6.30	1,160
1931	Apr. 7, 1931	7.05	1,370	1933	Jan. 27, 1933	7.2	1,430

a From information by local resident; annual peak only.

Peak stages and discharges of Little River near Princeton, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1934	June 20, 1934	10.0	2,450	1945	Sept. 20, 1945	12.11	3,600	
1935	Dec. 2, 1934	12.68	4,470	1946	Jan. 1, 1946	7.54	1,370	
	May 22, 1935	7.01	1,270		Jan. 18, 1946	8.15	1,550	
	July 15, 1935	7.2	1,310		Feb. 11, 1946	9.20	1,880	
	Sept. 7, 1935	8.89	1,780	1947	Nov. 26, 1946	6.39	1,050	
1936	Jan. 10, 1936	8.87	1,780		1948	Nov. 13, 1947	7.66	1,370
	Jan. 22, 1936	8.68	1,710	Nov. 24, 1947		7.22	1,240	
	Feb. 5, 1936	7.25	1,310	Feb. 8, 1948		8.64	1,660	
	Feb. 17, 1936	10.72	2,690	Feb. 16, 1948		12.10	3,750	
	Mar. 19, 1936	8.74	1,710	Mar. 11, 1948		7.06	1,210	
	Apr. 8, 1936	11.73	3,340	1949		Dec. 1, 1948	8.31	1,550
	June 23, 1936	7.70	1,430		May 12, 1949	10.44	2,400	
	July 31, 1936	7.70	1,430		Aug. 30, 1949	9.74	2,080	
1937	Nov. 14, 1936	7.0	1,270	1950	July 16, 1950	5.77	808	
	Dec. 18, 1936	9.05	1,820		1951	Apr. 10, 1951	4.53	655
	Jan. 31, 1937	12.15	3,680	Mar. 6, 1952		12.39	4,110	
	Apr. 7, 1937	10.50	2,570	Mar. 26, 1952		7.02	1,300	
	Apr. 26, 1937	9.20	1,900	1953		Apr. 14, 1953	9.42	1,910
	July 30, 1937	6.75	1,220			June 16, 1953	11.09	2,710
	Aug. 27, 1937	7.30	1,310	1954		Jan. 19, 1954	8.37	1,580
	1938	Apr. 10, 1938	7.35		1,300	Jan. 24, 1954	12.79	4,770
June 21, 1938		8.28	1,580		Feb. 25, 1954	8.31	1,550	
June 28, 1938		8.02	1,480	1955	Aug. 20, 1955	11.97	2,950	
Sept. 21, 1938		11.65	3,270		Aug. 24, 1955	9.52	1,560	
1939	Feb. 14, 1939	9.31	1,940		Sept. 5, 1955	12.39	3,350	
	Mar. 3, 1939	9.03	1,820	Sept. 20, 1955	10.34	1,880		
	Apr. 18, 1939	7.26	1,280	1956	Mar. 18, 1956	10.41	1,930	
	July 22, 1939	11.25	3,010		1957	Mar. 2, 1957	8.79	1,360
	July 27, 1939	9.88	2,220	June 10, 1957		8.27	1,230	
	Aug. 20, 1939	8.78	1,750	1958		Dec. 11, 1957	7.90	1,250
	Aug. 29, 1939	8.67	1,720			Jan. 15, 1958	7.87	1,250
1940	Aug. 19, 1940	11.70	3,270			Jan. 26, 1958	8.17	1,340
	1941	July 6, 1941	8.53			1,610	Feb. 9, 1958	7.88	1,250
		July 14, 1941	10.73		2,580	Feb. 28, 1958	8.73	1,490
July 17, 1941		8.22	1,520		Mar. 27, 1958	9.62	1,820	
1942	Sept. 10, 1942	7.15	1,260	May 10, 1958	11.69	3,250		
	1943	Oct. 17, 1942	12.27	3,780	Aug. 5, 1958	7.95	1,280	
		Jan. 20, 1943	8.53	1,720	Aug. 29, 1958	12.22	3,980	
		Mar. 7, 1943	6.57	1,200	1959	Oct. 5, 1958	7.43	1,260
		June 10, 1943	9.16	1,930		Dec. 31, 1958	9.47	1,870
		July 10, 1943	7.89	1,540		Feb. 6, 1959	10.13	2,090
		July 15, 1943	10.14	2,260		Mar. 7, 1959	9.18	1,760
1944	Jan. 16, 1944	7.09	1,360	Apr. 14, 1959		10.67	2,370	
	Mar. 8, 1944	8.99	1,880	Apr. 23, 1959		10.05	2,050	
	Mar. 22, 1944	10.77	2,640	July 17, 1959	11.43	2,820		
	Apr. 13, 1944	10.00	2,220	July 31, 1959	8.97	1,690		
1945	Oct. 4, 1944	8.80	1,830					
	Aug. 5, 1945	7.57	1,490					
	Aug. 22, 1945	7.96	1,600					

890. Neuse River near Goldsboro, N. C.

Location.--Lat 35°20'15", long 77°59'50", on left bank at downstream side of highway bridge, 0.2 mile upstream from Stony Creek, 1.5 mile downstream from Atlantic Coast Line Railroad bridge, 3.2 miles south of Wayne County courthouse in Goldsboro, 4.3 miles downstream from Little River, and at mile 135.

Drainage area.--2,390 sq mi, approximately.

Gage.--Nonrecording Feb. 25, 1930, to July 23, 1931, at site 1.5 miles upstream at datum 2.00 ft higher; recording thereafter. At site 2.3 miles upstream at datum 1.71 ft higher July 24, 1931, to Aug. 31, 1948. Datum of gage is 42.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by rate of change of stage.

Historical data.--The maximum discharge known is that of Oct. 5, 1929.

Remarks.--Only annual peaks are shown.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 5, 1929	25.3	38,600	1945	Sept. 23, 1945	a26.72	30,700
1931	Aug. 18, 1931	17.50	11,400	1946	Jan. 6, 1946	19.20	10,600
1932	Mar. 14, 1932	17.24	10,900	1947	Jan. 24, 1947	16.70	8,490
1933	Apr. 24, 1933	16.34	9,660	1948	Feb. 19, 1948	24.47	20,300
1934	Apr. 19, 1934	15.99	9,300	1949	Dec. 8, 1948	19.99	13,000
1935	Dec. 6, 1934	23.8	21,400	1950	July 19, 1950	15.16	7,660
1936	Apr. 11, 1936	a25.3	26,300	1951	Apr. 15, 1951	12.44	5,680
1937	Feb. 3, 1937	24.10	22,000	1952	Mar. 11, 1952	22.29	17,300
1938	Aug. 4, 1938	19.23	11,400	1953	Feb. 23, 1953	16.92	9,300
1939	Mar. 6-7, 1939	21.9	15,500	1954	Jan. 28, 1954	23.77	21,400
1940	Aug. 22, 1940	a19.18	11,400	1955	Sept. 8, 1955	24.36	23,200
1941	July 20, 1941	a17.85	9,560	1956	Mar. 24, 1956	18.60	10,600
1942	Sept. 12, 1942	a14.66	7,100	1957	Mar. 8, 1957	18.62	10,600
1943	Oct. 19, 1942	a20.45	12,200	1958	May 13, 1958	22.35	16,500
1944	Mar. 26, 1944	a20.94	13,000	1959	Apr. 27, 1959	20.72	13,000

a Occurred at different time than peak discharge.

895. Neuse River at Kinston, N. C.

Location.--Lat 35°15'30", long 77°35'10", on left bank at Kinston, Lenoir County, 600 ft downstream from bridge on State Highway 11 and at mile 90.

Drainage area.--2,690 sq mi, approximately.

Gage.--Nonrecording Feb. 26, 1930, to Nov. 24, 1934, at site 1 mile downstream at datum 0.80 ft lower. Recording thereafter. Datum of gage is 10.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by rate of change of stage.

Bankfull stage.--14 ft (U.S. Weather Bureau).

Historical data.--The maximum stage known is that of July 1919.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	July 1919	a25.0	39,000	1932	Mar. 16, 1932	16.24	12,000
1925	October 1924	a24.7	36,000	1933	Apr. 26, 1933	14.96	9,800
				1934	Apr. 22, 1934	14.70	9,320
				1935	Dec. 9, 1934	19.16	18,500
1928	Sept. 25-26, 1928	24.2	34,000	1936	Apr. 14, 1936	20.9	24,400
1929	Mar. 12, 1929	a20.8	22,000	1937	Feb. 6, 1937	20.04	21,200
1930	Oct. 9-10, 1929	a22.8	28,000	1938	Aug. 7, 1938	16.65	11,800
1931	Aug. 23, 1931	16.00	11,600	1939	Mar. 9, 1939	18.88	17,200

a From information by North Carolina State Highway Commission.

Peak stages and discharges of Neuse River at Kinston, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 25, 1940	16.14	10,900	1950	July 21, 1950	14.19	7,620
1941	July 23, 1941	15.84	9,880	1951	Apr. 17, 1951	11.64	5,340
1942	Sept. 15, 1942	13.11	6,690	1952	Mar. 14, 1952	19.18	17,100
1943	Oct. 23, 1942	17.70	13,400	1953	Feb. 26-27, 1953	15.3	9,020
1944	Mar. 30, 1944	17.82	13,600	1954	Feb. 1, 1954	20.28	19,800
1945	Sept. 27, 1945	22.41	25,900	1955	Sept. 12, 1955	20.81	20,000
1946	Feb. 21-22, 1946	16.8	11,500	1956	Mar. 27, 1956	16.26	9,820
1947	Jan. 27, 1947	15.13	8,740	1957	Mar. 11, 1957	16.40	10,800
1948	Feb. 22, 1948	20.75	21,100	1958	May 17, 1958	18.70	15,800
1949	Dec. 11, 1948	17.83	13,600	1959	Apr. 29-30, 1959	17.6	13,100

905. Contentnea Creek near Wilson, N. C.

Location--Lat 35°41'10", long 77°56'50", at bridge on U.S. Highway 301, 250 ft downstream from dam for municipal powerplant, 1 mile upstream from Atlantic Coast Line Railroad bridge, and 3 miles southwest of Wilson, Wilson County.

Drainage area--236 sq mi.

Gage--Nonrecording Feb. 27, 1930, to June 23, 1934; recording thereafter. Altitude of gage is 78 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements.

Historical data--The maximum stage known is that of September 1924.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	September 1924	22.2	-	1942	Sept. 10, 1942	7.13	1,640
1931	Aug. 15, 1931	7.97	2,140	1943	Oct. 17, 1942	11.03	3,430
1932	Mar. 9, 1932	4.98	1,020	1944	Mar. 22, 1944	9.73	2,730
1933	Jan. 28, 1933	6.11	1,400	1945	Sept. 20, 1945	12.24	3,770
1934	July 24, 1934	8.88	2,220	1946	Feb. 11, 1946	7.42	1,750
1935	Dec. 2, 1934	9.50	2,580	1947	Nov. 26, 1946	5.51	1,150
1936	Apr. 9, 1936	12.58	4,220	1948	Feb. 16, 1948	12.35	4,070
1937	Jan. 31, 1937	13.37	4,820	1949	Dec. 2, 1948	7.28	1,750
1938	Sept. 22, 1938	10.42	2,790	1950	May 1, 1950	4.32	892
1939	July 22, 1939	12.21	3,510	1951	Apr. 11, 1951	3.80	705
1940	Aug. 17, 1940	13.80	4,830	1952	Mar. 6, 1952	13.26	4,660
				1953	June 16, 1953	8.29	2,100
1941	July 18, 1941	6.37	1,340	1954	Jan. 24, 1954	13.68	4,940

a From information by North Carolina State Highway Commission.

905.6. Lee Swamp tributary near Lucama, N. C.

Location--Lat 35°38'20", long 78°01'40", at culvert on U.S. Highway 301, 0.5 mile upstream from mouth, and 1.1 miles southwest of Lucama, Wilson County.

Drainage area--2.83 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 300 cfs. Change in relation occurred subsequent to modification of culvert in fall of 1957.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 22, 1953	21.09	44	1957	Feb. 28, 1957	21.94	98
1954	Jan. 22, 1954	23.10	236	1958	May 7, 1958	22.98	218
1955	Sept. 19, 1955	23.49	320	1959	Feb. 6, 1959	22.79	190
1956	Mar. 16, 1956	21.86	90				

907.8. Whiteoak Swamp tributary near Wilson, N. C.

Location.--Lat 35°42'20", long 77°47'10", at culvert 1.9 miles upstream from mouth and 7 miles east of Wilson, Wilson County.

Drainage area.--2.60 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs and extended above on basis of culvert measurement at 360 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 7, 1953	21.00	92	1957	Nov. 22, 1956	20.58	51
1954	January 1954	21.82	270	1958	Nov. 23, 1957	20.76	66
1955	Sept. 4, 1955	22.38	500	1959	Mar. 6, 1959	20.98	88
1956	Sept. 26, 1956	20.67	58				

909.6. Nahunta Swamp near Pikeville, N. C.

Location.--Lat 35°30'40", long 77°59'00", at bridge on U.S. Highway 117, a quarter of a mile downstream from Atlantic Coast Line Railroad, and 1 mile north of Pikeville, Wayne County.

Drainage area.--18.6 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in relation occur due to hurricane debris and subsequent channel clearing.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	July 1953	17.10	286	1957	June 9, 1957	16.57	136
1954	January 1954	17.96	365	1958	May 7, 1958	18.00	280
1955	Sept. 19, 1955	19.42	420	1959	Apr. 12, 1959	17.23	340
1956	Aug. 21, 1956	16.98	178				

910. Nahunta Swamp near Shine, N. C.

Location.--Lat 35°29'20", long 77°48'22", on right bank 10 ft downstream from bridge on county highway, 2 miles upstream from Appletree Swamp, 3½ miles north of Shine, Greene County, and 8 miles northwest of Snow Hill.

Drainage area.--77.6 sq mi.

Gage.--Recording. Datum of gage is 50.74 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in relation occur due to hurricane debris.

Remarks.--Base for partial-duration series, 390 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 20, 1955	8.92	700	1958	Jan. 8, 1958	6.07	438
	Aug. 24, 1955	7.29	395		Jan. 25, 1958	6.45	480
	Sept. 4, 1955	10.70	1,280		Feb. 28, 1958	8.07	743
	Sept. 20, 1955	12.37	2,050		Mar. 26, 1958	5.64	411
1956	Aug. 22, 1956	7.83	639		Mar. 31, 1958	6.82	585
					Apr. 6, 1958	6.84	585
1957	Aug. 18, 1957	7.45	582		Apr. 11, 1958	6.22	495
					Apr. 30, 1958	6.27	468
1958	Dec. 11, 1957	8.18	721		May 7, 1958	7.10	585
					July 21, 1958	6.56	510

Peak stages and discharges of Nahunta Swamp near Shine, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Aug. 4, 1958	6.62	510	1959	Mar. 7, 1959	8.75	939
	Aug. 26, 1958	7.32	615		Apr. 2, 1959	6.50	562
1959	Oct. 4, 1958	6.61	510	Apr. 14, 1959	8.66	958	
	Dec. 29, 1958	6.47	495	Apr. 22, 1959	6.70	592	
	Mar. 2, 1959	5.93	472	July 15, 1959	8.35	865	

914.3. Shepherd Run near Snow Hill, N. C.

Location.--Lat 35°26'10", long 77°38'40", at culvert on U.S. Highway 258, 1 mile upstream from mouth and 2.0 miles south of Snow Hill, Greene County.

Drainage area.--1.47 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	April - 1953	17.71	5	1957	-	-	(a)
1954	-	-	(a)	1958	Oct. 1, 1957	19.35	34
1955	Sept. 19, 1955	20.81	148	1959	March 1959	20.06	73
1956	-	-	(a)				

a Peak stage below gage; discharge less than 70 cfs.

915. Contentnea Creek at Hookerton, N. C.

Location.--Lat 35°25'40", long 77°35'10", on right bank at Hookerton, Greene County, 0.3 mile upstream from bridge on State Highway 123 and 2½ miles upstream from Wheat Swamp Creek.

Drainage area.--729 sq mi.

Gage.--Nonrecording Nov. 23, 1928, to Nov. 26, 1934; recording thereafter. Altitude of gage is 16 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by rate of change in stage.

Historical data.--High water of autumn 1924 was at practically the same stage as that of September 1928, which is maximum stage known.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	September 1928	23.3	-	1944	Mar. 26, 1944	14.50	5,110
1929	Mar. 9, 1929	14.80	4,870	1945	Sept. 24, 1945	14.98	5,840
1930	Oct. 6, 1929	18.90	11,100	1946	Jan. 23, 1946	13.27	3,630
1931	Aug. 17-19, 1931	-	a2,400	1947	Apr. 18, 1947	11.40	2,210
1932	Mar. 12, 1932	10.18	1,720	1947	Feb. 17, 1948	17.75	10,000
1933	Apr. 23, 1933	12.18	2,620	1947	Dec. 5, 1948	13.88	4,040
1934	Sept. 22, 1934	11.86	2,470	1950	July 19-21, 1950	-	a1,500
1935	Sept. 13, 1935	12.80	2,980	1951	Mar. 25, 1951	8.27	1,030
1936	Apr. 11, 1936	15.93	6,670	1952	Mar. 10, 1952	14.80	4,950
1937	Feb. 3, 1937	16.28	7,450	1953	June 22, 1953	12.11	2,470
1938	Apr. 10-11, 1938	12.39	2,590	1954	Jan. 28, 1954	15.65	6,680
1939	July 31, 1939	15.29	5,650	1955	Sept. 8, 1955	16.18	7,160
1940	Aug. 21, 1940	15.23	6,100	1956	Mar. 24, 1956	13.18	2,720
1941	July 19, 1941	14.04	4,340	1957	Mar. 7-8, 1957	13.0	2,560
1942	Mar. 15, 1942	11.00	2,040	1958	May 15, 1958	13.96	4,890
1943	Oct. 16, 1942	15.53	6,620	1959	July 21, 1959	14.41	5,070

a Daily mean discharge.

918.1. Halfmoon Creek near Fort Barnwell, N. C.

Location.--Lat 35°18'00", long 77°21'10", at bridge on State Highway 55, 1.5 miles northwest of Fort Barnwell, Craven County, and 2.3 miles upstream from mouth.

Drainage area.--4.87 sq mi.

Gage.--Crest-stage gage. Altitude of gage is -5 ft (from topographic map).

Stage-discharge relation.--Discharge defined by current-meter measurements below 860 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	19.00	257	1957	-	-	(a)
1954	January 1954	18.37	175	1958	September 1958	17.18	88
1955	Sept. 19, 1955	21.67	1,600	1959	Mar. 6, 1959	19.61	380
1956	May 7, 1956	18.29	166				

a Peak stage below gage; discharge less than 140 cfs.

920. Swift Creek near Vanceboro, N. C.

Location.--Lat 35°20'40", long 77°11'10", on left bank at highway bridge, 2½ miles upstream from bridge on State Highway 118, 2½ miles downstream from Clayroot Swamp, and 3½ miles northwest of Vanceboro, Craven County.

Drainage area.--182 sq mi.

Gage.--Nonrecording Jan. 18, 1950, to Jan. 17, 1951; recording thereafter. Datum of gage is 3.93 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	-	all	-	1954	Jan. 25, 1954	7.52	1,260
				1955	Sept. 22, 1955	13.67	6,060
1928	-	all	-	1956	Feb. 10, 1956	6.61	780
1951	July 27, 1951	7.47	1,310	1957	Mar. 9, 1957	7.47	1,200
1952	Mar. 6, 1952	7.67	1,370	1958	Mar. 3, 1958	7.30	1,120
1953	Feb. 10, 1953	7.08	1,050	1959	July 18, 1959	8.90	2,180

a From information by local resident.

920.2. Palmetto Swamp near Vanceboro, N. C.

Location.--Lat 35°20'20", long 77°10'20", at bridge on State Highway 43, 1.3 miles upstream from mouth and 2.5 miles northwest of Vanceboro, Craven County.

Drainage area.--24.2 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements; below 2,200 cfs and extended above by logarithmic plotting. Relation affected at times by backwater from Swift Creek.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	22.05	1,030	1957	Nov. 22, 1956	20.74	500
1954	March 1954	19.76	175	1958	May 6, 1958	19.97	250
1955	Sept. 20, 1955	26.14	3,700	1959	Mar. 6, 1959	21.11	650
1956	May 7, 1956	19.10	100				

921.2. Batchelders Creek near New Bern, N. C.

Location.--Lat 35°09'00", long 77°10'20", at bridge on U.S. Highway 70, 2.1 miles downstream from Rollover Creek, and 6.7 miles northwest of New Bern, Craven County.

Drainage area.--33.6 sq mi.

Gage.--Crest-stage gage. Altitude of gage is -5 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended above.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 1953	14.96	520	1957	Nov. 22, 1956	15.70	710
1954	January 1954	14.79	480	1958	September 1958	16.86	1,080
1955	Sept. 20, 1955	23.58	7,000	1959	July 1959	16.08	1,000
1956	May 7, 1956	14.78	475				

922.9. Rattlesnake Branch near Comfort, N. C.

(Published as "Tuckahoe Swamp tributary" prior to Oct. 1, 1959)

Location.--Lat 35°00'30", long 77°35'50", at culvert on State Highway 41, 1½ miles upstream from mouth and 5½ miles west of Comfort, Jones County.

Drainage area.--3.35 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements. Relation affected at times by backwater from Trent River.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	21.78	132	1957	June 6, 1957	21.32	82
1954	December 1953	21.60	110	1958	June 3, 1958	22.33	220
1955	Sept. 19, 1955	25.50	630	1959	Mar. 7, 1959	22.50	250
1956	May 7, 1956	21.75	129				

925. Trent River near Trenton, N. C.

Location.--Lat 35°03'50", long 77°27'20", on left bank 50 ft downstream from Free Bridge, 800 ft downstream from Little Chinquapin Branch, 1½ miles southwest of Phillips Crossroads, and 6 miles west of Trenton, Jones County.

Drainage area.--168 sq mi.

Gage.--Recording. Datum of gage is 19.15 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements; subject to changes due to hurricane debris and subsequent channel clearing. Relation affected by rate of change in stage.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	-	17.3	7,600	1956	May 10, 1956	12.55	1,400
				1957	Mar. 10, 1957	10.62	772
1952	Feb. 28, 1952	11.41	1,050	1958	June 5, 1958	12.45	1,330
1953	Sept. 30, 1953	12.87	1,680	1959	Mar. 8, 1959	15.47	3,760
1954	Dec. 17, 1953	10.45	886				
1955	Sept. 21, 1955	17.84	9,100				

a From information by North Carolina State Highway Commission.

NEUSE RIVER BASIN

925.2. Vine Swamp near Kinston, N. C.

Location--Lat 35°09'29", long 77°33'16", at bridge on State Highway 12, 7 miles south of Kinston, Lenoir County, and 9 miles upstream from mouth.

Drainage area--5.64 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	21.52	217	1957	Mar. 8, 1957	20.38	66
1954	January 1954	20.39	90	1958	Jan. 25, 1958	20.74	99
1955	Sept. 19, 1955	23.71	840	1959	Mar. 7, 1959	23.03	575
1956	May 7, 1956	20.73	98				

926.2. Upper Broad Creek tributary near Grantsboro, N. C.

Location--Lat 35°08', long 76°56', at bridge on State Highway 55, 1 mile upstream from mouth and 5½ miles west of Grantsboro, Pamlico County.

Drainage area--3.31 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Aug. 14, 1953	20.14	110	1957	October 1956	20.66	215
1954	December 1953	19.67	57	1958	Sept. 29, 1958	20.14	110
1955	Sept. 20, 1955	22.99	800	1959	Mar. 6, 1959	20.67	216
1956	May 7, 1956	19.55	48				

WHITE OAK RIVER BASIN

927.2. White Oak River at Belgrade, N. C.

Location--Lat 34°53'30", long 77°14'00", at bridge on U.S. Highway 17, 0.8 mile north of Belgrade, Onslow County, and 1.1 miles upstream from Mirey Branch.

Drainage area--53.3 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 1953	11.72	250	1957	June 6, 1957	13.04	420
1954	December 1953	10.61	124	1958	May 7, 1958	12.80	390
1955	Sept. 20, 1955	23.49	8,900	1959	Mar. 8, 1959	14.28	840
1956	October 1955	12.79	385				

927.8. Bell Swamp near Hubert, N. C.
 (Published as "Queen Creek tributary" prior to Oct. 1, 1957)

Location.--Lat 34°42'04", long 77°14'01", at culvert on State Highway 172, 1.1 miles southwest of Hubert, Onslow County, and 2.0 miles upstream from mouth.

Drainage area.--4.95 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 580 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Aug. 12, 1953	20.94	175	1957	August 1957	20.42	120
1954	May 14, 1954	19.60	51	1958	Sept.29, 1958	22.11	350
1955	Sept.20, 1955	25.70	1,320	1959	Mar. 6, 1959	21.69	280
1956	Mar. 29, 1956	19.67	55				

NEW RIVER BASIN

930. New River near Gum Branch, N. C.

Location.--Lat 34°51'00", long 77°31'00", on right bank 5 ft downstream from highway bridge, half a mile downstream from Jenkins Swamp, 1½ miles southwest of Gum Branch, Onslow County, and 3¼ miles southeast of Richlands.

Drainage area.--74.5 sq mi.

Gage.--Recording. Datum of gage is 3 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements; subject to changes due to hurricane debris and subsequent channel clearing.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	-	a18	-	1956	May 9, 1956	10.75	721
1950	July 9, 1950	16.16	3,120	1957	Oct. 31, 1956	10.55	654
1951	Oct. 21, 1950	15.50	2,710		June 9, 1957	9.20	732
1952	Feb. 26, 1952	8.66	652	1958	Dec. 11, 1957	10.69	990
	May 20, 1952	11.61	1,180		Feb. 28, 1958	9.08	716
1953	Feb. 9, 1953	8.76	668		Apr. 1, 1958	10.45	932
					May 8, 1958	11.65	1,180
1954	Dec. 15, 1953	8.29	590		July 26, 1958	9.75	828
					Sept.29, 1958	10.99	1,050
1955	Aug. 13, 1955	15.64	2,410	1959	Dec. 30, 1958	10.17	819
	Aug. 18, 1955	16.73	3,300		Mar. 4, 1959	11.96	1,170
	Aug. 26, 1955	14.24	1,600		Mar. 7, 1959	14.09	1,730
	Sept. 5, 1955	13.35	1,300		Apr. 14, 1959	9.63	721
	Sept.20, 1955	19.99	7,900		July 18, 1959	9.34	675

a From information by local resident.

930.4. Southwest Creek tributary near Jacksonville, N. C.

Location.--Lat 34°47'20", long 77°33'10", at culvert half a mile upstream from mouth, and 8 miles northwest of Jacksonville, Onslow County.

Drainage area.--1.00 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by theoretical culvert computations and by culvert measurement at 282 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	-	-	(a)	1957	May 28, 1957	21.90	226
1954	Winter 1954	19.53	30	1958	Sept. 28, 1958	21.69	205
1955	Sept. 19, 1955	22.50	282	1959	Mar. 7, 1959	21.25	165
1956	-	-	(a)				

a Peak stage below gage; discharge less than 10 cfs.

930.7. Southwest Creek near Jacksonville, N. C.

Location.--Lat 34°44'00", long 77°32'00", at bridge on State Highway 53, 0.5 mile upstream from Harris Creek and 4.5 miles southwest of Jacksonville, Onslow County.

Drainage area.--26.9 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 1953	16.46	197	1957	June 6, 1957	20.81	1,150
1954	December 1953	16.95	245	1958	Sept. 29, 1958	19.79	790
1955	Sept. 20, 1955	26.9	5,500	1959	Mar. 7, 1959	19.67	750
1956	May 7, 1956	17.70	340				

CAPE FEAR RIVER BASIN

932.9. Haw River near Summerfield, N. C.

Location.--Lat 36°14'32", long 79°52'20", at bridge 3½ miles northeast of Summerfield, Guilford County, and 6 miles upstream from Mears Fork Creek.

Drainage area.--26.3 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs and extended above on basis of contracted-opening measurement at 1,310 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 23, 1954	22.32	465	1957	Feb. 28, 1957	22.66	630
1955	Oct. 15, 1954	24.20	1,310	1958	Apr. 28, 1958	22.82	710
1956	September 1956	22.14	383	1959	Aug. 29, 1959	22.67	600

935. Haw River near Benaja, N. C.

Location.--Lat 36°16', long 79°34', on left bank 200 ft upstream from site of old High Rock Mill, 500 ft upstream from highway bridge, half a mile upstream from Rockingham-Guilford County line, 6 miles downstream from Troublesome Creek, and 6 miles east of Benaja, Rockingham County.

Drainage area.--168 sq mi.

Gage.--Recording. Altitude of gage is 629 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended above on basis of slope-area measurement at 12,300 cfs.

Remarks.--Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)							
1916	July 1916	17.5	a9,350	1944	Apr. 13, 1944	8.22	1,770							
1929	Mar. 1, 1929	9.29	2,180	1945	Oct. 1, 1944	9.96	2,430							
	June 29, 1929	9.11	2,110		July 18, 1945	7.08	1,410							
1930	Oct. 3, 1929	13.54	5,020		Sept.18-19, 1945	18.10	10,100							
				1931	Aug. 24, 1931	7.80	1,680	1946	Feb. 12, 1946	7.06	1,410			
1932	Jan. 10, 1932	7.48	1,580									Sept.25, 1947	19.22	12,300
	1933	Mar. 7, 1932	7.87	1,710	1948	Apr. 2, 1948	7.94	1,670						
Oct. 19, 1932		7.85	1,680	1949					Nov. 30, 1948	7.85	1,640			
1934	May 30, 1933	8.40	1,880		July 1, 1949	7.19	1,440							
	1935	Mar. 5, 1934	7.31	1,520	1950	Nov. 1, 1949	11.27	3,190						
Apr. 10, 1934									7.73	1,640	1951	Apr. 10, 1951	6.64	1,260
1936	Dec. 2, 1934	7.82	1,680	1952	Mar. 5, 1952	8.02	1,700							
								Jan. 7, 1936	7.33	1,520	Mar. 25, 1952	7.84	1,640	
								Jan. 20, 1936	9.5	2,250	Sept. 2, 1952	7.60	1,570	
								Feb. 16, 1936	8.90	2,010	1953	Feb. 23, 1953	5.03	816
								Mar. 18, 1936	9.52	2,230				
Apr. 7, 1936	8.58	1,900	1954	Jan. 23, 1954	7.17	1,470								
1937	Jan. 3, 1937	9.17					2,120	1955	Oct. 16, 1954	12.76	4,060			
			Jan. 20, 1937	9.64	2,270	Apr. 14, 1955			8.94	2,060				
1938	Oct. 5, 1937	11.83	3,570	1956	Feb. 7, 1956	5.48	950							
								July 24, 1938	7.07	1,410	1957	Feb. 2, 1957	9.53	2,280
1939	Aug. 20, 1939	8.16	1,770	1958	Nov. 26, 1957	7.32	1,500							
								1940	Aug. 15, 1940	13.7	5,200	Apr. 30, 1958	7.78	1,670
1941	Nov. 15, 1940	7.57	1,570	1959	Dec. 29, 1958	5.70	1,010							
								1942	Mar. 10, 1942	7.40	1,510			
May 22, 1942	7.10	1,410												
1943	Apr. 20, 1943	7.50	1,540											

a Annual peak only.

940. Horsepen Creek at Battle Ground, N. C.

Location.--Lat 36°08'34", long 79°51'24", on right bank 10 ft downstream from highway bridge, 0.5 mile downstream from bridge on U.S. Highway 220, three-quarters of a mile north of Battle Ground, Guilford County, and 2 miles upstream from mouth.

Drainage area.--15.9 sq mi.

Gage.--Recording. At site 1,000 ft upstream at datum 1.45 ft higher Nov. 9, 1925, to July 31, 1931. Datum of gage is 737.94 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs and extended above by comparative flood-crest discharges on nearby streams for period Nov. 9, 1925, to July 31, 1931. Defined at present site by current-meter measurements below 800 cfs and extended above on basis of contracted-opening measurement at 6,400 cfs.

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges of Horsepen Creek at Battle Ground, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1926	Jan. 18, 1926	7.15	766	1946	July 23, 1946	6.51	515	
1927	Dec. 29, 1926	5.87	316	1947	Jan. 20, 1947	6.33	434	
	July 9, 1927	6.74	515		Sept. 24, 1947	10.36	6,400	
1928	Apr. 12, 1928	5.63	269	1948	Feb. 14, 1948	5.78	262	
1929	Feb. 28, 1929	7.45	750	1949	Nov. 20, 1948	6.20	415	
	Mar. 5, 1929	6.10	354		Nov. 28, 1948	6.86	858	
1930	Oct. 2, 1929	7.23	680		July 17, 1949	5.99	327	
					Aug. 16, 1949	6.85	850	
1935	Oct. 23, 1949	6.20	415	Aug. 29, 1949	6.17	402		
	Dec. 1, 1934	6.00	520	1950	Oct. 31, 1949	6.85	830	
	Mar. 13, 1935	5.98	565		July 12, 1950	6.17	402	
	Mar. 26, 1935	5.38	330	1951	June 18, 1951	5.85	282	
Apr. 1, 1935	5.60	400	1952		Dec. 21, 1951	6.83	814	
Apr. 21, 1935	5.75	460		Jan. 10, 1952	6.01	354		
1936	Jan. 3, 1936	6.1		600	Jan. 28, 1952	6.00	330	
	Jan. 7, 1936	5.69		440	Feb. 5, 1952	5.93	306	
	Jan. 19, 1936	7.07		980	Mar. 4, 1952	7.27	1,200	
	Feb. 14, 1936	5.90		520	Mar. 11, 1952	6.28	455	
	Mar. 17, 1936	5.63		420	Mar. 24, 1952	6.55	612	
	Mar. 28, 1936	5.64		420	Sept. 1, 1952	6.29	505	
	Apr. 2, 1936	6.20		640	1953	Dec. 11, 1952	6.44	560
	Apr. 6, 1936	6.58		800		Dec. 31, 1952	5.80	322
	June 24, 1936	5.53	382	Jan. 9, 1953		6.00	385	
	Sept. 30, 1936	6.53	760	Feb. 15, 1953		6.52	620	
1937	Jan. 1, 1937	5.45	350	Feb. 21, 1953	6.40	580		
	Jan. 20, 1937	5.7	440	Mar. 16, 1953	5.87	351		
	Apr. 25, 1937	5.51	365	Mar. 24, 1953	6.17	460		
1938	July 24, 1938	5.22	296	June 10, 1953	6.35	560		
	1939	Feb. 10, 1939	5.53	382	June 17, 1953	6.03	385	
Feb. 26, 1939		5.46	352	1954	Jan. 16, 1954	5.98	354	
1940	May 30, 1940	5.4	339		Jan. 22, 1954	6.53	658	
	Aug. 14, 1940	6.64	820		Mar. 14, 1954	5.84	310	
1941	Nov. 14, 1940	5.67	372		Apr. 17, 1954	5.93	358	
	June 13, 1941	6.11	595	1955	Oct. 15, 1954	7.83	1,840	
1942	Feb. 17, 1942	5.97	516		Dec. 14, 1954	6.15	818	
	Mar. 9, 1942	7.09	1,240		Feb. 6, 1955	6.65	595	
1943	Jan. 19, 1943	6.57	612		Apr. 14, 1955	6.41	441	
	Feb. 6, 1943	6.00	390	Aug. 14, 1955	5.82	728		
	Mar. 6, 1943	6.13	425	Aug. 17, 1955	7.19	1,090		
	Apr. 19, 1943	6.00	390	1956	Feb. 4, 1956	6.18	328	
1944	Jan. 3, 1944	5.74	310		May 4, 1956	7.03	903	
	Feb. 18, 1944	5.77	318		Sept. 26, 1956	6.85	708	
	Apr. 12, 1944	6.45	568	1957	Feb. 1, 1957	6.98	870	
Sept. 30, 1944	6.45	568	1958		Nov. 25, 1957	6.92	782	
1945	Nov. 28, 1944	5.96		376	1959	Aug. 8, 1959	6.28	303
	Sept. 18, 1945	7.93		1,540				
	Sept. 22, 1945	5.82	351					
1946	Feb. 10, 1946	7.16	652					

945. Reedy Fork near Gibsonville, N. C.

Location.--Lat 36°11', long 79°37', on right bank a quarter of a mile downstream from Huffines Mill, 1½ miles upstream from Buffalo Creek, and 6 miles northwest of Gibsonville, Guilford County.

Drainage area.--133 sq mi.

Gage.--Recording. Datum of gage is 626.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow partly regulated since 1923 by Lake Brandt, 14 miles upstream (capacity, 113,256,000 cu ft) and by Lake Higgins on Brush Creek, a tributary to Lake Brandt, since 1957 (capacity, about 107,000,000 cu ft) and since 1943 by Richland Lake 12 miles upstream. Only annual peaks are shown.

Peak stages and discharges of Reedy Fork near Gibsonville, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	17.90	8,640	1944	Apr. 13, 1944	10.63	3,000
1929	Mar. 1, 1929	10.14	2,730	1945	Sept. 18, 1945	16.56	7,340
1930	Oct. 3, 1929	12.65	3,830	1946	Feb. 12, 1946	8.72	2,160
1931	Aug. 11, 1931	6.72	1,650	1947	Sept. 25, 1947	20.77	11,600
1932	Mar. 6, 1932	7.70	2,040	1948	Apr. 2, 1948	5.67	1,190
1933	Oct. 18, 1932	9.43	2,470	1949	July 16, 1949	10.73	2,880
1934	July 10, 1934	8.55	2,410	1950	Nov. 1, 1949	10.50	2,800
1935	Dec. 1, 1934	6.24	1,460	1951	Oct. 24, 1950	5.46	1,130
1936	Jan. 20, 1936	13.28	4,390	1952	Mar. 5, 1952	10.50	2,870
1937	Jan. 20, 1937	10.11	2,730	1953	Feb. 22, 1953	6.31	1,430
1938	Oct. 20, 1937	4.82	942	1954	Jan. 24, 1954	7.32	1,750
1939	Aug. 20, 1939	11.08	3,100	1955	Oct. 15, 1954	13.36	4,310
1940	Aug. 15, 1940	12.70	3,880	1956	Sept. 28, 1956	6.42	1,460
1941	Nov. 15, 1940	7.48	1,810	1957	Feb. 2, 1957	8.45	2,100
1942	Mar. 10, 1942	9.74	2,580	1958	Nov. 25, 1957	7.23	1,720
1943	June 15, 1943	6.95	1,760	1959	Sept. 8, 1959	6.80	1,590

a From information by local resident.

950. South Buffalo Creek near Greensboro, N. C.
(Published as "Buffalo Creek" prior to October 1952)

Location.--Lat 36°03'36", long 79°43'33", on left bank 5 ft downstream from bridge on McConnell road, 3.8 miles east of post office in Greensboro, Guilford County, and 6 miles upstream from North Buffalo Creek.

Drainage area.--33.6 sq mi.

Gage.--Recording. Datum of gage is 696.2 ft, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of contracted-opening measurements at gage heights 8.69, 10.64, and 11.54 ft.

Remarks.--Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 28, 1929	8.74	2,680	1939	Mar. 1, 1939	7.06	842
	Mar. 5, 1929	7.03	821		Aug. 19, 1939	7.45	1,180
	Apr. 16, 1929	7.05	835	1940	May 30, 1940	7.16	918
1930	Oct. 2, 1929	8.40	2,230		Aug. 14, 1940	7.32	1,060
	Jan. 15, 1930	6.89	724	1941	Nov. 15, 1940	7.06	842
1931	July 27, 1931	7.37	1,120		July 17, 1941	7.03	821
1932	Jan. 9, 1932	6.95	765	1942	Mar. 9, 1942	6.76	622
	Mar. 6, 1932	7.95	1,700	1943	Jan. 20, 1943	6.81	673
1933	Oct. 17, 1932	8.15	2,110		Mar. 7, 1943	7.30	1,040
1934	Feb. 26, 1934	7.56	959		Apr. 20, 1943	7.06	842
	Apr. 10, 1934	7.17	779		July 8, 1943	6.89	724
	June 8, 1934	6.94	828		July 11, 1943	6.69	2,610
1935	Dec. 1, 1934	7.47	1,200	1944	Jan. 4, 1944	6.79	659
	Mar. 13, 1935	7.29	1,030		Feb. 18, 1944	6.84	691
	Apr. 22, 1935	6.85	685		Apr. 12, 1944	7.78	1,540
	Sept. 6, 1935	6.97	779		July 15, 1944	7.28	1,020
					Sept. 30, 1944	8.21	1,990
1936	Jan. 3, 1936	7.84	1,600	1945	Sept. 18, 1945	9.54	3,780
	Jan. 19, 1936	8.00	1,760	1946	Dec. 26, 1945	6.90	720
	Feb. 14, 1936	7.24	986		Feb. 10, 1946	8.28	2,110
	Mar. 17, 1936	7.68	1,450		May 18, 1946	7.81	1,540
	Mar. 28, 1936	6.98	786	1947	Jan. 14, 1947	6.85	685
	Apr. 2, 1936	7.64	1,380		Jan. 20, 1947	7.20	950
	Apr. 6, 1936	8.20	1,990		Sept. 25, 1947	10.64	8,000
1937	Jan. 1, 1937	7.03	821	1948	Feb. 14, 1948	6.70	590
	Jan. 19, 1937	7.44	1,170	1949	Nov. 29, 1948	8.16	1,380
	Apr. 26, 1937	6.84	691				
1938	July 24, 1938	-	(a)				

a Unknown, occurred during period of no gage-height record.

CAPE FEAR RIVER BASIN

Peak stages and discharges of South Buffalo Creek near Greensboro, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1949	Mar. 23, 1949	7.03	748	1954	Jan. 23, 1954	7.59	992	
	July 15, 1949	11.54	10,000		Mar. 14, 1954	7.52	940	
	July 20, 1949	8.34	2,060	1955	Oct. 15, 1954	9.76	4,700	
1950	Oct. 31, 1949	7.63	1,100		Feb. 7, 1955	7.73	1,100	
	May 15, 1950	7.02	683		Apr. 14, 1955	8.75	2,400	
1951	June 18, 1951	8.18	1,670		Aug. 15, 1955	7.72	1,100	
		8.01	1,360	Aug. 18, 1955	8.01	1,360		
1952	Dec. 21, 1951	8.35	2,070	1956	Mar. 17, 1956	7.08	674	
	Jan. 18, 1952	6.86	670		Sept. 27, 1956	8.25	1,760	
	Jan. 29, 1952	7.24	962	1957	Jan. 31, 1957	8.60	2,500	
	Mar. 4, 1952	8.39	2,130		Apr. 5, 1957	7.85	1,160	
	Mar. 24, 1952	7.62	1,270		1958	Nov. 26, 1957	7.73	1,020
	Sept. 1, 1952	8.35	2,070			Jan. 25, 1958	7.20	740
1953	Nov. 20, 1952	6.85	662	Apr. 11, 1958		7.19	734	
	Dec. 11, 1952	7.00	775	May 25, 1958		7.55	825	
	Feb. 15, 1953	7.45	1,040	June 21, 1958	7.1	685		
	Feb. 21, 1953	7.96	1,540					
	Mar. 24, 1953	7.07	752					
June 17, 1953	7.56	1,130						

955. North Buffalo Creek near Greensboro, N. C.

Location.--Lat 36°07'13", long 79°42'30", on left bank 5 ft downstream from highway bridge, 4.2 miles upstream from mouth, and 5.8 miles northeast of post office in Greensboro, Guilford County.

Drainage area.--37.0 sq mi.

Gage.--Recording. Altitude of gage is 679 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of contracted-opening measurements at gage heights 14.15 and 15.96 ft.

Remarks.--Base for partial-duration series, 920 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 28, 1929	10.9	1,910	1937	Jan. 3, 1937	-	(a)
	Mar. 5, 1929	6.76	927		Jan. 19, 1937	-	(b)
	Apr. 16, 1929	6.77	927		Apr. 25, 1937	6.83	927
1930	Oct. 2, 1929	9.59	1,320	1938	Oct. 20, 1937	6.67	912
	Jan. 14, 1930	7.25	981		1939	Nov. 20, 1938	7.78
1931	Aug. 11, 1931	6.45	882	Feb. 10, 1939		7.30	994
		9.8	1,360	Feb. 26, 1939		7.53	1,020
1932	Mar. 6, 1932	9.8	1,360	Feb. 28, 1939		8.40	1,130
	July 3, 1932	7.43	1,010	July 20, 1939	7.50	1,020	
1933	Oct. 17, 1932	11.02	1,960	Aug. 18, 1939	7.93	1,070	
		10.09	1,420	Sept. 18, 1939	10.09	1,420	
1934	Feb. 26, 1934	7.90	1,070	1940	Aug. 14, 1940	8.89	1,200
	Mar. 28, 1934	7.14	968		1941	Nov. 14, 1940	7.65	1,030
	Apr. 9, 1934	8.64	1,160	June 13, 1941		12.16	2,860
	July 9, 1934	9.66	1,430	July 10, 1941		8.11	1,090
1935	Dec. 1, 1934	9.90	1,380	July 17, 1941	8.29	1,120	
	Mar. 13, 1935	8.51	1,150	1942	Feb. 17, 1942	7.79	1,060
	Apr. 1, 1935	7.70	1,040		Mar. 9, 1942	6.81	927
	Apr. 21, 1935	7.91	1,070		May 22, 1942	8.46	1,150
June 7, 1942	7.72	1,040	1943		Jan. 19, 1943	9.90	1,620
1936	Jan. 3, 1936	9.00		1,220	Feb. 6, 1943	7.48	1,040
	Jan. 6, 1936	6.38		1,120	Mar. 6, 1943	9.14	1,360
Jan. 19, 1936	11.36	2,230		Apr. 19, 1943	9.11	1,360	
Feb. 14, 1936	8.43	1,130		July 11, 1943	14.15	4,470	
Mar. 17, 1936	9.68	1,430		1944	Jan. 3, 1944	7.40	924
Mar. 28, 1936	7.11	968					
Apr. 2, 1936	9.08	1,240					
Apr. 6, 1936	10.20	1,600					
June 19, 1936	10.16	1,600					

a Unknown, but probably greater than 920 cfs.

b Unknown, probably maximum for year.

Peak stages and discharges of North Buffalo Creek near Greensboro, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Feb. 17, 1944	7.47	942	1954	Jan. 22, 1954	9.05	1,330
	Apr. 12, 1944	10.12	1,600		Mar. 14, 1954	7.67	1,080
	Sept. 30, 1944	10.93	1,940	1955	Oct. 15, 1954	15.54	5,580
1945	Sept. 18, 1945	14.40	4,640		Dec. 13, 1954	7.16	989
	1946	Feb. 10, 1946	11.30		2,120	Feb. 6, 1955	9.08	1,350
May 18, 1946		10.18	1,640		Apr. 14, 1955	12.55	3,110
1947	Sept. 25, 1947	15.96	6,000		Aug. 14, 1955	7.53	1,040
		10.62		Aug. 17, 1955	10.62	1,790	
1948	Apr. 15, 1948	9.22	1,290	1956	Oct. 1, 1955	7.26	1,010
		1,290			Feb. 4, 1956	7.07	955
1949	Nov. 28, 1948	9.78	1,460		Mar. 16, 1956	7.44	1,020
	June 29, 1949	7.97	1,030		May 4, 1956	7.99	1,130
	July 15, 1949	13.70	4,060	Sept. 26, 1956	10.24	1,650	
1950	Oct. 31, 1949	10.18	1,600	1957	Feb. 1, 1957	10.87	1,930
	May 15, 1950	7.80	996		Apr. 5, 1957	9.72	1,500
	1951	June 18, 1951	9.20		1,290	Apr. 8, 1957	8.23
1,290					July 18, 1957	9.90	1,560
1952	Dec. 21, 1951	-	(a)	1958	Nov. 25, 1957	10.47	1,750
	Jan. 10, 1952	7.05	926		Jan. 25, 1958	7.77	1,100
	Jan. 28, 1952	7.37	1,010		Feb. 26, 1958	7.64	1,060
	Mar. 4, 1952	11.50	2,370		Apr. 10, 1958	8.05	1,130
	Mar. 11, 1952	6.95	926		May 25, 1958	9.68	1,500
	Mar. 24, 1952	8.69	1,300	June 22, 1958	9.95	1,590	
	Aug. 31, 1952	10.40	1,820	1959	Dec. 28, 1958	8.82	1,290
	1953	Feb. 15, 1953	8.57		1,280	June 2, 1959	8.86	1,310
Feb. 21, 1953		9.17	1,430		June 4, 1959	6.90	936
Mar. 24, 1953		8.04	1,130	July 27, 1959	7.21	989	
				Aug. 31, 1959	7.55	1,060	

a Unknown, but probably greater than 920 cfs.

960. Stony Creek near Burlington, N. C.

Location.--Lat 36°11', long 79°25', on right bank a quarter of a mile upstream from highway bridge, half a mile upstream from Buttermilk Creek, 4½ miles upstream from mouth, and 6 miles north of Burlington, Alamance County.

Drainage area.--44.2 sq mi.

Gage.--Recording. Datum of gage is 536.3 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Poorly defined by current-meter measurements.

Remarks.--Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 11, 1952	7.65	1,340	1956	Mar. 16, 1956	8.24	1,470
	Dec. 31, 1952	5.90	940		Apr. 12, 1956	6.15	929
	Jan. 24, 1953	6.63	1,120		May 4, 1956	9.70	1,870
	Feb. 15, 1953	9.08	1,670		Aug. 3, 1956	6.42	983
	Feb. 21, 1953	8.19	1,460	1957	Feb. 1, 1957	12.39	2,480
1954	Jan. 23, 1954	8.80	1,600		Mar. 1, 1957	6.87	1,060
	Mar. 14, 1954	8.06	1,440	1958	Nov. 23, 1957	6.37	930
1955	Oct. 16, 1954	15.26	(a)		Nov. 25, 1957	12.08	2,410
	Nov. 21, 1954	-	(b)		Jan. 14, 1958	6.97	1,080
	Dec. 14, 1954	6.82	1,090		Jan. 25, 1958	10.09	1,890
	Feb. 7, 1955	9.27	1,770		Feb. 27, 1958	8.13	1,370
	Apr. 14, 1955	9.90	1,930		Apr. 11, 1958	9.67	1,780
	Aug. 18, 1955	7.72	1,330	May 7, 1958	7.40	1,180	
1956	Oct. 1, 1955	7.64	1,310	1959	Dec. 29, 1958	10.78	2,070
	Feb. 6, 1956	8.14	1,440		Sept. 7, 1959	11.04	2,170

a Not determined, but maximum during period of record.

b Unknown, but probably greater than 900 cfs.

965. Haw River at Haw River, N. C.

Location.--Lat 36°05', long 79°22', on left bank at town of Haw River, Alamance County, 650 ft downstream from Southern Railway bridge and 3 miles downstream from Stony Creek.

Drainage area.--599 sq mi.

Gage.--Recording. Datum of gage is 471.69 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above on basis of contracted-opening measurement at 37,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)		
1929	Feb. 28, 1929	23.96	18,400	1943	Feb. 6, 1943	17.29	9,500		
	Mar. 5, 1929	16.27	7,770		Mar. 6, 1943	15.24	7,410		
	June 27, 1929	18.24	9,500		Apr. 19, 1943	16.18	8,400		
	July 12, 1929	15.12	6,940		July 11, 1943	17.52	9,700		
1930	Oct. 2, 1929	22.44	15,100	1944	Jan. 3, 1944	14.80	6,560		
	July 17, 1930	14.23	6,750		Jan. 15, 1944	14.80	6,560		
1931	Apr. 6, 1931	12.74	5,830		Feb. 18, 1944	15.54	7,320		
		14.40	8,280		Mar. 13, 1944	14.40	8,280		
1932	Jan. 8, 1932	14.55	7,070	Apr. 12, 1944	22.33	14,400			
	Mar. 6, 1932	20.98	13,500	Sept. 30, 1944	21.54	12,600			
1933	Oct. 17, 1932	14.51	7,520	1945	Feb. 13, 1945	14.08	6,040		
	May 30, 1933	16.54	8,760		Sept. 18, 1945	31.10	37,000		
1934	Mar. 28, 1934	13.13	6,050	1946	Dec. 26, 1945	15.47	7,070		
	Apr. 9, 1934	23.01	15,800		Dec. 30, 1945	15.42	6,990		
1935	Dec. 1, 1934	16.53	8,920	1947	Feb. 10, 1946	21.50	13,400		
	Mar. 13, 1935	15.49	8,040		Jan. 20, 1947	15.09	6,750		
	Apr. 1, 1935	17.48	9,820	Sept. 26, 1947	27.89	27,200			
	Apr. 21, 1935	16.69	9,100	1948	Feb. 14, 1948	18.08	9,500		
1936	Jan. 3, 1936	20.78	13,300		1949	Nov. 28, 1948	19.57	11,100	
	Jan. 6, 1936	17.66	10,000	Jan. 29, 1949		15.71	7,240		
	Jan. 19, 1936	20.70	13,200	July 16, 1949		16.48	7,950		
	Feb. 15, 1936	17.42	9,600	1950		Nov. 1, 1949	19.08	10,500	
	Mar. 17, 1936	20.95	13,400		1951	Apr. 8, 1951	16.33	7,770	
	Mar. 28, 1936	15.25	7,490			1952	Dec. 21, 1951	19.34	10,600
	Apr. 2, 1936	16.18	8,400				Jan. 28, 1952	17.10	8,490
	Apr. 6, 1936	21.9	14,400	Feb. 4, 1952			15.59	7,180	
Apr. 10, 1936	14.08	6,500	Mar. 4, 1952	22.83	15,200				
1937	Dec. 31, 1936	16.28	8,600	Mar. 24, 1952	18.24	9,500			
	Jan. 3, 1937	19.53	11,800	Sept. 1, 1952	19.07	10,400			
	Jan. 20, 1937	19.50	11,800	1953	Feb. 15, 1953	17.00	8,400		
	Apr. 25, 1937	18.89	11,100		Feb. 21, 1953	16.26	7,770		
	Aug. 25, 1937	16.97	9,200		Mar. 24, 1953	-	(a)		
	1938	July 3, 1938	15.30		7,580	1954	Jan. 23, 1954	17.33	8,670
July 24, 1938		16.15	8,400	Mar. 14, 1954	16.75		8,220		
July 26, 1938		-	11,000	1955	Oct. 16, 1954	25.50	20,900		
1939	Nov. 20, 1938	14.66	7,040		Feb. 6, 1955	-	(a)		
	Feb. 10, 1939	14.67	7,040		Apr. 14, 1955	18.87	10,200		
	Mar. 1, 1939	15.84	8,050		Aug. 18, 1955	17.72	9,030		
	May 2, 1939	15.74	7,940		1956	Feb. 7, 1956	14.67	6,490	
	July 21, 1939	18.80	11,000			Mar. 16, 1956	14.66	6,490	
	Aug. 18, 1939	18.8	11,000	May 4, 1956		14.08	6,070		
Aug. 28, 1939	17.4	9,600	1957	Feb. 1, 1957		21.15	12,800		
1940	Feb. 7, 1940	16.65		8,800	1958	Nov. 25, 1957	19.97	11,300	
	July 3, 1940	14.15	6,510	Jan. 25, 1958		17.26	8,670		
	Aug. 16, 1940	20.37	12,700	Apr. 11, 1958		15.56	7,180		
1941	Nov. 15, 1940	18.61	10,800	1959	Dec. 29, 1958	17.55	8,940		
1942	May 22, 1942	21.12	13,500						
	June 8, 1942	20.27	12,600						

a Unknown, but probably greater than 6,000 cfs.

966.6. Rock Creek near Whitsett, N. C.

Location.--Lat 36°04', long 79°36', at culvert on U.S. Highway 70A, three-quarters of a mile upstream from mouth, and 2 miles west of Whitsett, Guilford County.

Drainage area.--14.4 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Not defined; 1955 peak determined by culvert measurement.

Remarks.--Only annual peak stages are shown, except for 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	March 1954	16.46	-	1957	Mar. 14, 1957	17.38	-
1955	Oct. 15, 1954	24.04	5,860	1958	Apr. 11, 1958	16.82	-
1956	Sept. 26, 1956	14.71	-	1959	July 1959	16.00	-

967.4. Gum Branch near Alamance, N. C.
(Published as "Gum Branch" prior to Oct. 1, 1957)

Location.--Lat 36°04', long 79°29', at bridge on State Highway 62, 1 mile north of Alamance, Alamance County, and 1½ miles upstream from mouth.

Drainage area.--5.02 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs and extended above on basis of contracted-opening measurement at 1,590 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	March 1954	16.90	195	1957	Jan. 31, 1957	17.64	445
1955	Oct. 15, 1954	19.15	1,590	1958	Nov. 25, 1957	17.49	380
1956	Mar. 16, September 1956	16.26	80	1959	Dec. 28, 1958	16.65	140

970. Haw River near Pittsboro, N. C.

Location.--Lat 35°42', long 79°05', on left bank 100 ft upstream from Robeson Creek, 2 miles downstream from bridge on U.S. Highway 64, and 5 miles east of Pittsboro, Chatham County.

Drainage area.--1,310 sq mi, approximately.

Gage.--Nonrecording Nov. 26, 1928, to Oct. 14, 1929; recording thereafter. Datum of gage is 179.22 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 46,000 cfs and extended above. Current-meter measurement made 6 miles upstream at 78,000 cfs used to confirm extension.

Historical data.--Flood in 1865 reached a stage about 1 ft lower than flood in 1908, from information by local residents.

Remarks.--Base for partial-duration series, 17,000 cfs.

Peak stages and discharges of Haw River near Pittsboro, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	a32.1	b98,000	1944	Feb. 18, 1944	13.97	17,200
1928	September 1928	20.3	b39,200		Apr. 12, 1944	15.95	22,700
					July 15, 1944	14.27	17,900
1929	Feb. 28, 1929	16.8	25,300	1945	Oct. 1, 1944	21.31	43,600
	Mar. 5, 1929	18.4	31,200		Sept. 18, 1945	28.58	79,000
1930	Oct. 2, 1929	22.1	47,300	1946	Feb. 11, 1946	18.68	32,400
1931	May 21, 1931	13.38	16,000	1947	Jan. 14, 1947	14.52	18,400
1932	Jan. 8, 1932	16.08	23,000		Jan. 20, 1947	14.85	19,100
	Mar. 7, 1932	17.95	29,700		Sept. 26, 1947	16.23	23,300
1933	Oct. 17, 1932	13.00	15,100	1948	Feb. 14, 1948	15.28	20,500
1934	Apr. 10, 1934	18.38	31,200	1949	Nov. 29, 1948	17.70	28,600
1935	Dec. 1, 1934	16.21	23,300	1950	Oct. 8, 1949	16.28	23,700
	Apr. 1, 1935	14.13	17,400		Nov. 2, 1949	15.10	20,000
	Sept. 6, 1935	15.90	22,400	1951	Apr. 8, 1951	14.49	18,400
1936	Jan. 20, 1936	16.70	25,000	1952	Dec. 22, 1951	15.30	20,500
	Feb. 15, 1936	15.92	22,400		Jan. 29, 1952	14.47	18,400
	Mar. 18, 1936	18.42	31,200		Mar. 4, 1952	20.08	38,300
	Mar. 28, 1936	13.86	17,000		Mar. 25, 1952	15.12	20,000
	Apr. 2, 1936	15.64	21,400		Sept. 1, 1952	17.53	27,800
	Apr. 7, 1936	20.73	41,000	1953	Feb. 15, 1953	15.52	21,100
1937	Jan. 1, 1937	15.22	20,300		Mar. 24, 1953	14.65	18,600
	Jan. 4, 1937	14.92	19,400	1954	Jan. 23, 1954	16.39	24,000
	Jan. 20, 1937	15.55	21,400	1955	Oct. 16, 1954	20.00	37,900
	Apr. 26, 1937	15.95	22,700		Feb. 7, 1955	15.49	21,100
1938	July 26, 1938	17.40	27,400		Apr. 15, 1955	13.92	17,000
1939	Feb. 10, 1939	16.98	26,000		Aug. 18, 1955	16.27	23,700
	May 3, 1939	14.75	19,100	1956	Mar. 16, 1956	15.69	21,700
	Aug. 19, 1939	17.84	28,900	1957	Feb. 1, 1957	17.85	28,900
	Aug. 28, 1939	17.50	27,800	1958	Nov. 26, 1957	15.89	22,400
1940	Feb. 7, 1940	14.11	17,400		Jan. 14, 1958	14.14	17,400
	Aug. 14, 1940	14.68	18,900		Jan. 25, 1958	15.35	20,800
	Aug. 17, 1940	13.86	17,000		Apr. 11, 1958	14.64	18,600
1941	Nov. 15, 1940	15.47	21,100		May 7, 1958	14.46	18,400
1942	May 22, 1942	14.13	17,400	1959	Dec. 29, 1958	14.88	19,400
1943	Apr. 20, 1943	14.46	18,400				
	July 13, 1943	15.50	21,100				

a Annual peak only.

970.1. Robeson Creek near Pittsboro, N. C.

Location.--Lat 35°43', long 79°13', at culvert 500 ft upstream from culvert on U.S. Highway 64, and 1½ miles west of Pittsboro, Chatham County.

Drainage area.--1.13 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 80 cfs and extended above on basis of culvert measurement at 400 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	22.69	125	1957	December 1956	24.00	283
1955	Oct. 15, 1954	24.60	400	1958	Nov. 30, 1957	22.76	130
				1959	July 1959	24.52	385
1956	Mar. 16, 1956	22.76	130				

975. Morgan Creek near Chapel Hill, N. C.

Location.--Lat 35°53'50", long 79°05'30", 600 ft downstream from site of University Lake dam which was completed in 1932, 1,100 ft downstream from Neville Creek, 1½ miles southwest of Carrboro, 2½ miles southwest of Chapel Hill, Orange County, and 7 miles upstream from mouth.

Drainage area.--29.1 sq mi.

Gage.--Nonrecording prior to Dec. 8, 1924; recording thereafter. At site 600 ft upstream at datum 1.96 ft higher prior to Oct. 23, 1931. Datum of gage is 315.41 ft above mean sea level, datum of 1929 (levels by North Carolina Department of Conservation and Development).

Stage-discharge relation.--Prior to Oct. 23, 1931, defined by current-meter measurements below 4,500 cfs and extended above on basis of slope-area measurement at 30,000 cfs. At present site, defined by current-meter measurements below 950 cfs and extended above on basis of relation with former rating.

Remarks.--Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Mar. 13, 1923	8.50	1,690	1928	Apr. 27, 1928	12.65	4,240
1924	June 30, 1924	13.96	5,770	1929	Mar. 5, 1929	10.96	3,000
	Aug. 4, 1924	25.0	a30,000		Oct. 2, 1929	15.43	7,730
	Sept. 29, 1924	9.8	2,300		June 17, 1930	11.90	3,650
1925	Jan. 11, 1925	8.21	1,570	1931	Aug. 20, 1931	14.00	5,770
1926	July 24, 1926	11.75	3,570		1932	Mar. 6, 1932	12.20	2,450
1927	July 8, 1927	8.32	1,620				

a Determined by slope-area measurement made by Engineering Department, University of North Carolina.

979.1. White Oak Creek near Wilsonville, N. C.

Location.--Lat 35°45', long 79°01', at bridge 1 mile upstream from mouth, and 1 mile north of Wilsonville, Chatham County.

Drainage area.--23.6 sq mi.

Gage.--Crest-stage gage. Datum of gage is 173.77 ft above mean sea level, datum of datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,030 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	July 1953	23.01	890	1957	April 1957	22.76	750
1954	Feb. 7, 1954	24.00	1,620	1958	May 6, 1958	23.81	1,460
1955	Sept. 3, 1955	23.15	960	1959	Dec. 28, 1958	23.05	900
1956	Mar. 16, 1956	23.05	900				

980. New Hope River near Pittsboro, N. C.

Location.--Lat 35°44', long 79°02', on right bank at downstream side of bridge on U.S. Highway 64, a quarter of a mile downstream from Whiteoak Creek and 8 $\frac{1}{4}$ miles east of Pittsboro, Chatham County.

Drainage area.--285 sq mi.

Gage.--Recording. Datum of gage is 175.75 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	-	a23.85	-	1954	Jan. 18, 1954	17.56	4,290
	-	a25.3	-		Jan. 24, 1954	19.55	7,600
1929	-	a27.65	-	1955	Feb. 9, 1955	14.92	2,460
1945	September 1945	-	-		Feb. 14, 1955	14.81	2,420
	May 15, 1950	12.30	1,670		Aug. 20, 1955	16.10	3,110
1951	Apr. 11, 1951	14.12	2,230	Sept. 4, 1955	14.03	2,100	
	Jan. 31, 1952	15.27	2,710	1956	Feb. 9, 1956	14.12	2,140
Mar. 5, 1952	19.74	7,900	Mar. 18, 1956		17.23	3,920	
1952	Mar. 27, 1952	13.86	2,160	1957	Feb. 3, 1957	17.39	4,100
	Sept. 2, 1952	17.22	3,920		Mar. 2, 1957	16.64	3,450
	1953	Nov. 22, 1952	17.42	4,100	1958	Nov. 27, 1957	16.31	3,240
Jan. 3, 1953		13.52	2,030	Jan. 17, 1958		14.29	2,220
Jan. 12, 1953		13.54	2,030	Jan. 27, 1958		15.62	2,610
Jan. 26, 1953		15.75	2,980	Mar. 1, 1958	14.70	2,380	
Feb. 17, 1953		16.98	3,760	May 1, 1958	15.75	2,930	
Mar. 18, 1953		13.20	1,940	May 8, 1958	18.94	5,970	
Mar. 25, 1953		18.50	5,310	1959	Apr. 14, 1959	17.37	4,100
Apr. 15, 1953		12.84	1,820		Apr. 22, 1959	15.74	2,670

a From information by North Carolina State Highway Commission; annual peak only.

981.87. Haw River at Moncure, N. C.

Location.--Lat 35°39', long 79°04', at bridge on U.S. Highway 1, 1 $\frac{1}{2}$ miles upstream from mouth, and 2 $\frac{1}{4}$ miles east of Moncure, Chatham County.

Drainage area.--1,700 sq mi, approximately.

Gage.--Nonrecording. At Seaboard Air Line Railroad bridge 0.1 mile downstream at datum 1.4 ft higher Jan. 1, 1905, to Mar. 15, 1918. At county highway bridge 270 ft upstream from railroad bridge at datum 4.2 ft higher Mar. 16, 1918, to Aug. 31, 1927. At present site at datum 4.2 ft higher Sept. 1, 1927, to May 22, 1931, and at datum 0.1 ft higher May 23, 1931, to Dec. 31, 1934. Datum of gage is 150.6 ft, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--22 ft (U.S. Weather Bureau).

Remarks.--Stages affected by backwater from Buckhorn Shoals Dam 9 miles downstream. Gage heights furnished by U. S. Weather Bureau and are generally once-daily readings with occasional readings on the crest. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1899	Feb. 8, 1899	25.9	-	1909	Dec. 23, 1908	23.2	-
1905	Feb. 21, 1905	27.0	-	1910	June 15, 1910	20.5	-
				1911	Jan. 4, 1911	18.7	-
1906	Jan. 4, 1906	22.8	-	1912	Mar. 16, 1912	29.2	-
1907	Apr. 24, 1907	17.1	-	1913	Mar. 16, 1913	20.5	-
1908	Aug. 26, 1908	34.3	-	1914	Feb. 21, 1914	19.5	-

Peak stages of Haw River at Moncure, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Dec. 26, 1914	22.7	-	1931	May 22, 1931	20.0	-
1916	Feb. 3, 1916	26.7	-	1932	Mar. 7, 1932	25.7	-
1917	Mar. 5, 1917	22.4	-	1933	Oct. 18, 1932	20.0	-
1918	Apr. 22, 1918	22.4	-	1934	Apr. 10, 1934	24.5	-
1919	July 18, 22, 1919	23.0	-	1935	Dec. 1, 1934	22.0	-
1920	July 10, 1920	23.2	-	1936	Apr. 7, 1936	29.0	-
1921	Feb. 11, 1921	26.0	-	1937	Apr. 26, 1937	21.0	-
1922	Feb. 16, 1922	24.0	-	1938	July 26, 1938	25.0	-
1923	Mar. 14, 1923	21.5	-	1939	Feb. 10, 1939	24.4	-
1924	Sept. 30, 1924	24.6	-	1940	Feb. 7, 1940	19.4	-
1925	Jan. 12, 1925	22.9	-	1941	Nov. 15, 1940	20.5	-
1926	Jan. 19, 1926	17.7	-	1942	Mar. 9, 1942	17.7	-
1927	Mar. 7, 1927	18.0	-	1943	Apr. 20, 1943	20.9	-
1928	Sept. 20, 1928	30.3	-	1944	Apr. 12, 1944	21.8	-
1929	Mar. 1, 1929	28.5	-	1945	Sept. 18, 1945	38.0	-
1930	Oct. 2, 1929	33.0	-				

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

Location--Lat 36°00'15", long 79°58'42", on left bank 2,300 ft upstream from highway bridge and High Point Lake, 2.3 miles west of Jamestown, and 2.5 miles northeast of High Point College, High Point, Guilford County.

Drainage area--32.1 sq mi; 33 sq mi at site used prior to Sept. 30, 1926.

Gage--Nonrecording prior to Sept. 30, 1926, at site 2,300 ft downstream at different datum. Recording July 25, 1928, to Sept. 30, 1958. Crest-stage gage since Oct. 1, 1958. Altitude of gage is 758 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 480 cfs and extended above for period 1924-26. Defined by current-meter measurements below 2,000 cfs and extended above on basis of contracted-opening measurement at 8,450 cfs at present site.

Remarks--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Sept. 29, 1924	10.5	1,160	1936	Jan. 3, 1936	10.23	1,050
1925	Dec. 31, 1924	9.3	983	Jan. 6, 1936	10.73	1,220	
	Jan. 11, 1925	9.2	969	Jan. 19, 1936	13.84	2,880	
	Feb. 11, 1925	9.50	1,010	Feb. 14, 1936	10.03	986	
	Aug. 5, 1925	8.9	927	Mar. 27, 1936	9.76	929	
1926	Jan. 18, 1926	9.8	1,060	Apr. 2, 1936	12.61	2,160	
				Apr. 6, 1936	12.77	2,280	
				Sept. 30, 1936	11.05	1,330	
1928	Sept. 19, 1928	11.45	a1,500	1937	Dec. 31, 1936	10.03	986
1929	Feb. 28, 1929	12.35	1,980	Jan. 3, 1937	9.60	876	
	Mar. 5, 1929	9.56	976	Jan. 19, 1937	11.68	1,570	
	Apr. 15, 1929	10.62	1,190	Apr. 25, 1937	11.49	1,550	
1930	Oct. 2, 1929	11.22	1,200	1938	May 23, 1938	10.47	1,140
1931	Aug. 22, 1931	8.95	778	July 3, 1938	9.69	902	
1932	Mar. 6, 1932	11.30	1,370	July 23, 1938	11.30	1,420	
1933	Oct. 17, 1932	12.46	1,980	1939	Nov. 20, 1938	9.05	741
	Mar. 21, 1933	8.64	706	Feb. 9, 1939	9.49	851	
	Aug. 13, 1933	10.30	1,070	Feb. 26, 1939	10.02	986	
1934	Feb. 26, 1934	10.73	1,050	Aug. 18, 1939	11.74	1,780	
	Apr. 9, 1934	10.00	881	Aug. 24, 1939	8.88	722	
	July 10, 1934	9.89	859	1940	May 20, 1940	8.52	717
	Sept. 16, 1934	10.30	1,090	May 30, 1940	13.12	2,610	
1935	Mar. 13, 1935	10.07	986	Aug. 14, 1940	12.74	2,370	
	Apr. 1, 1935	9.02	741	1941	June 13, 1941	8.64	736
	Apr. 21, 1935	8.83	704	1942	Feb. 17, 1942	10.18	1,110
					Mar. 9, 1942	12.83	2,430
					June 7, 1942	9.63	946

a Annual peak only.

CAPE FEAR RIVER BASIN

Peak stages and discharges of West Fork Deep River near High Point, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)			
1942	June 10, 1942	10.70	1,290	1952	Mar. 4, 1952	12.78	2,390			
1943	Jan. 19, 1943	11.04	1,310	Mar. 24, 1952	11.03	1,310	2,460			
	Feb. 6, 1943	9.48	821	Aug. 31, 1952	12.90	2,460				
	Mar. 6, 1943	9.77	897	1953	Dec. 11, 1952	9.97		950		
	Apr. 19, 1943	10.0	950		Feb. 15, 1953	10.54		1,110		
	Aug. 29, 1943	9.77	897		Feb. 21, 1953	10.92		1,260		
1944	Feb. 17, 1944	9.24	748	Mar. 24, 1953	11.15	1,400	765			
	Mar. 29, 1944	11.1	1,360	June 7, 1953	9.34	765				
	Apr. 12, 1944	11.7	1,680	June 17, 1953	9.17	740				
	July 14, 1944	10.65	1,140	1954	Jan. 16, 1954	9.30		765		
	Sept. 30, 1944	10.6	1,140		Jan. 21, 1954	11.15		1,400		
1945	Sept. 18, 1945	13.52	2,840	Mar. 14, 1954	9.13	716	3,120			
	1946	Feb. 10, 1946	12.48	2,200	1955	Oct. 15, 1954		13.9	790	
July 23, 1946		8.98	703	Dec. 13, 1954	9.43	790		Feb. 6, 1955	10.86	1,260
1947	Jan. 20, 1947	10.13	980	Apr. 14, 1955	11.34	1,460		Apr. 14, 1955	9.80	894
	Sept. 24, 1947	19.92	8,450	Aug. 17, 1955	11.47	1,560		Aug. 17, 1955	11.47	1,560
1948	Apr. 1, 1948	8.99	692	1956	Feb. 4, 1956	9.95	950	868		
1949	Nov. 28, 1948	11.39	1,510		Mar. 16, 1956	9.73	868		1,220	
	July 15, 1949	12.24	2,000		Sept. 26, 1956	10.81	1,220			
	Aug. 16, 1949	10.01	950	1957	Jan. 31, 1957	12.65	2,210			
	Aug. 22, 1949	9.07	716		Apr. 5, 1957	11.42	1,420			
1950	Aug. 28, 1949	10.89	1,260	Apr. 8, 1957	10.07	880	1,600			
	Oct. 31, 1949	13.18	2,650	1958	Nov. 25, 1957	11.70		750		
1951	May 12, 1950	10.47	1,110	Jan. 25, 1958	9.65	750	a4,150			
	Apr. 3, 1951	8.20	546	1959	Sept. 5, 1959	15.18		a4,150		
1952	Dec. 21, 1951	11.12	1,360							

a Annual peak only.

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

Location.--Lat 36°02'15", long 79°56'46", on left bank 5 ft upstream from highway bridge, 3.3 miles upstream from High Point Dam, and 5.2 miles northeast of High Point College, High Point, Guilford County.

Drainage area.--14.7 sq mi.

Gage.--Recording. Datum of gage is 764.02 ft above mean sea level, unadjusted. Intake pipe extended to downstream side of bridge since Mar. 1, 1934.

State-discharge relation.--Defined by current-meter measurements below 450 cfs and extended above prior to 1935; subsequent ratings defined by current-meter measurements below 1,600 cfs and extended above on basis of contracted-opening measurement at 6,300 cfs. Considerable shift in relation occurred during summer of 1935, when the right abutment and center pier of old bridge downstream were removed.

Remarks.--Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1929	Feb. 28, 1929	5.45	1,040	1935	May 10, 1935	4.20	1,100	
	Apr. 15, 1929	5.45	1,040	1936	Jan. 6, 1936	3.39	1,250	
1930	Oct. 2, 1929	4.40	750		Jan. 19, 1936	5.14	2,170	
	1931	Aug. 22, 1931	4.07		656	Feb. 13, 1936	3.03	843
1932		Mar. 6, 1932	5.10		950	Mar. 27, 1936	3.13	940
		Apr. 2, 1936	4.70		1,970	Apr. 6, 1936	4.52	1,870
1933	Oct. 17, 1932	5.85	1,160	Sept. 30, 1936	3.34	1,210		
	Aug. 2, 1933	5.10	950	1937	Dec. 31, 1936	3.40	1,270	
	Aug. 13, 1933	4.82	862		Jan. 19, 1937	3.94	1,570	
1934	Feb. 26, 1934	7.37	1,630		Apr. 25, 1937	3.26	1,120	
	June 8, 1934	7.5	1,660	1938	July 3, 1938	3.07	856	

Peak stages and discharges of East Fork Deep River near High Point, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1938	July 23, 1938	4.37	1,820	1949	Aug. 21, 1949	3.05	848	
1939	Feb. 9, 1939	3.08	869	1949	Aug. 23, 1949	4.09	1,700	
	Feb. 26, 1939	3.42	1,270	1949	Aug. 28, 1949	3.38	1,250	
	Aug. 18, 1939	3.51	1,340	1950	Oct. 31, 1949	3.67	1,440	
	Aug. 24, 1939	5.12	2,170		May 12, 1950	3.04	836	
1940	May 20, 1940	3.30	1,180	1951	June 17, 1951	2.73	588	
	May 29, 1940	4.90	2,070	1952	Dec. 21, 1951	3.32	1,190	
	Aug. 14, 1940	5.84	2,520		Mar. 4, 1952	4.84	2,120	
1941	June 13, 1941	3.05	830		Aug. 31, 1952	4.50	1,940	
	1942	Feb. 17, 1942	3.28	1,150	1953	Feb. 15, 1953	3.56	1,370
Mar. 9, 1942		4.71	1,970	Feb. 21, 1953		4.19	1,760	
1943	Jan. 19, 1943	3.66	1,440	Mar. 23, 1953		3.45	1,300	
	1944	Apr. 11, 1944	3.46	1,300		June 17, 1953	4.00	1,640
July 14, 1944		3.71	1,460	1954	Jan. 21, 1954	3.90	1,530	
Sept.30, 1944		3.10	905		1955	Oct. 15, 1954	6.77	3,410
1945	May 27, 1945	4.37	1,820	Feb. 6, 1955		3.33	1,130	
	Sept.18, 1945	4.37	1,820	Apr. 14, 1955		3.48	1,260	
1946	Feb. 10, 1946	4.36	1,820	Aug. 17, 1955		4.50	1,920	
	May 17, 1946	3.53	1,370	1956	Feb. 4, 1956	3.13	920	
	July 23, 1946	4.54	1,870		May 4, 1956	4.58	1,980	
1947	Sept.24, 1947	10.87	6,300		Sept.26, 1956	4.01	1,600	
	1948	May 13, 1948	2.87	679	1957	Jan. 31, 1957	5.50	2,560
1949		Nov. 28, 1948	3.54	1,370		Apr. 5, 1957	4.58	1,980
		July 15, 1949	4.21	1,760		Apr. 8, 1957	4.33	1,790
1949	Aug. 15, 1949	4.89	2,180	1958	Nov. 25, 1957	4.38	1,860	
				1959	Aug. 8, 1959	4.18	1,720	

995. Deep River near Randleman, N. C.

Location.--Lat 35°54', long 79°51', on left bank 500 ft downstream from highway bridge, a quarter of a mile downstream from Coltrane's mill, half a mile south of Guilford County line, 4 $\frac{1}{2}$ miles upstream from Muddy Creek, and 7 miles north of Randleman, Randolph County.

Drainage area.--124 sq mi.

Gage.--Recording. Datum of gage is 638.11 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 7,100 cfs and extended above on basis of contracted-opening measurement at 20,000 cfs.

Remarks.--Base for partial-duration series, 2,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 28, 1929	23.9	8,470	1935	Dec. 1, 1934	13.90	2,860
	Mar. 5, 1929	-	6,000		Mar. 13, 1935	16.96	3,730
	Apr. 16, 1929	15.57	3,470		Apr. 21, 1935	13.18	2,670
	July 12, 1929	13.00	2,660	1936	Jan. 3, 1936	16.81	3,920
1930	Oct. 2, 1929	20.08	5,720		Jan. 6, 1936	17.22	4,100
	Jan. 14, 1930	12.90	2,620		Jan. 19, 1936	20.98	6,300
1931	Aug. 11, 1931	14.05	2,930		Feb. 14, 1936	15.94	3,580
		14.49	3,100		Mar. 17, 1936	14.49	3,170
		14.70	3,170	Mar. 28, 1936	19.00	5,050	
1932	Jan. 8, 1932	14.55	3,090	Apr. 2, 1936	22.84	7,600	
	Mar. 6, 1932	-	(a)	1937	Jan. 1, 1937	15.58	3,470
	June 12, 1932	13.20	2,710		Jan. 3, 1937	16.00	3,610
1933	Oct. 17, 1932	-	(b)		Jan. 19, 1937	18.36	4,720
					Apr. 25, 1937	14.38	3,080
1934	Feb. 26, 1934	15.38	3,310		1938	July 24, 1938	14.72	3,170
	Apr. 9, 1934	16.82	3,670				
	June 8, 1934	15.14	3,200				

a Unknown, probably maximum for year.

b Unknown, occurred during period of no gage-height record.

Peak stages and discharges of Deep River near Randleman, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 9, 1939	14.30	3,050	1949	Aug. 23, 1949	17.30	4,120
	Feb. 26, 1939	10.06	3,640		Aug. 28, 1949	14.50	3,110
	Feb. 28, 1939	15.09	3,300	1950	Oct. 31, 1949	18.18	4,500
	Aug. 18, 1939	16.96	4,000				
1940	May 30, 1940	20.47	5,980	1951	June 18, 1951	13.76	2,900
	Aug. 15, 1940	19.88	5,590	1952	Dec. 21, 1951	18.93	4,850
1941	Nov. 14, 1940	13.14	2,690		Jan. 28, 1952	13.49	2,810
	July 17, 1941	17.78	4,400		Mar. 4, 1952	21.72	6,540
1942	Feb. 17, 1942	13.86	2,930		Mar. 24, 1952	18.16	4,500
	Mar. 9, 1942	18.87	5,000	Sept. 1, 1952	20.12	5,500	
1943	Jan. 19, 1943	13.12	2,690	1953	Dec. 10, 1952	14.21	3,020
	Feb. 6, 1943	14.20	3,020		Feb. 15, 1953	17.06	4,040
	Mar. 6, 1943	16.51	3,800		Feb. 21, 1953	18.93	4,850
	Apr. 19, 1943	14.03	2,960	1954	Jan. 22, 1954	17.99	4,400
	July 11, 1943	15.77	3,540		Mar. 14, 1954	16.76	3,920
	Aug. 29, 1943	17.10	4,050		1955	Oct. 15, 1954	23.48	7,900
1944	Jan. 3, 1944	12.94	2,630	Dec. 13, 1954		14.02	2,960
	Jan. 15, 1944	12.84	2,600	Feb. 6, 1955		18.28	4,550
	Feb. 18, 1944	13.41	2,780	Apr. 14, 1955		20.56	5,800
	Apr. 12, 1944	19.24	5,170	Aug. 15, 1955		17.30	4,120
	July 15, 1944	16.69	3,880	Aug. 18, 1955		19.35	5,100
	Sept. 30, 1944	23.94	8,470	1956	Sept. 27, 1956	13.55	2,840
1945	Sept. 18, 1945	25.18	9,530		1957	Feb. 1, 1957	20.60	5,800
1946	Feb. 10, 1946	21.37	6,580	Apr. 5, 1957		17.63	4,240
1947	Jan. 20, 1947	14.13	2,990	1958	Nov. 25, 1957	17.08	4,040
	Sept. 25, 1947	32.20	20,000		Jan. 25, 1958	13.09	2,690
1948	Feb. 14, 1948	12.70	2,570		Apr. 10, 1958	13.26	2,750
					May 25, 1958	12.78	2,600
1949	Nov. 28, 1948	19.77	5,320	1959	Apr. 20, 1959	13.77	2,900
	July 15, 1949	19.48	5,150		Aug. 8, 1959	16.73	3,880
	July 19, 1949	15.05	3,260		Sept. 7, 1959	17.51	4,200

1000. Muddy Creek near Archdale, N. C.

Location--Lat 35°52'35", long 79°52'43", 600 ft upstream from bridge on county road, 1½ miles downstream from Taylor Branch, 2 miles east of Glenola brick plant, 2½ miles southwest of Coltrane's Mill, and 6 miles southeast of Archdale, Randolph County.

Drainage area--16.2 sq mi.

Gage--Recording. Altitude of gage is 665 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Dec. 1, 1934	6.54	600	1937	Jan. 19, 1937	7.01	880
	Mar. 12, 1935	6.50	600		Apr. 25, 1937	5.82	553
1936	Jan. 3, 1936	7.33	988	1938	June 28, 1938	10.46	2,180
	Jan. 6, 1936	6.99	880		July 23, 1938	9.67	1,880
	Jan. 19, 1936	7.59	1,100	1939	Feb. 9, 1939	7.10	916
	Feb. 14, 1936	6.64	748		Feb. 26, 1939	7.15	952
	Mar. 17, 1936	5.95	610		Feb. 28, 1939	6.82	810
	Mar. 28, 1936	6.18	652		1940	May 30, 1940	9.32	1,720
	Apr. 2, 1936	7.33	988	June 11, 1940		6.37	694
	Apr. 6, 1936	8.92	1,570	Aug. 14, 1940		8.00	1,240
	Aug. 7, 1936	10.10	2,030	Aug. 16, 1940		6.27	669
	1937	Oct. 8, 1936	8.18	1,310	1941	July 10, 1941	5.10	430
Oct. 16, 1936		5.72	550				
Dec. 31, 1936		6.28	674				
Jan. 3, 1937		6.04	610				

CAPE FEAR RIVER BASIN

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1005. Deep River at Ramseur, N. C.

Location.--Lat 35°44', long 79°39', on right bank 1,600 ft downstream from railroad station at Ramseur, Randolph County, and 1½ miles downstream from Sandy Creek.

Drainage area.--346 sq mi.

Gage.--Recording. Datum of gage is 419.50 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs and extended above on basis of slope-area measurement at 43,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1901	August 1901	a28.75	b30,000	1939	Aug. 19, 1939	15.02	9,500	
1923	Mar. 13, 1923	19.22	13,100	1940	Feb. 7, 1940	11.59	6,680	
	Mar. 17, 1923	16.38	10,600		May 30, 1940	14.80	9,320	
	July 15, 1923	15.37	9,700		Aug. 14, 1940	14.53	9,050	
1924	Sept. 30, 1924	17.9	11,900	1941	Nov. 14, 1940	12.56	7,460	
1925	Jan. 1, 1925	15.00	9,380	1942	Feb. 17, 1942	13.09	7,860	
	Jan. 11, 1925	15.7	9,950		Mar. 9, 1942	11.08	6,300	
	Jan. 20, 1925	13.68	8,340		Sept. 7, 1942	13.87	8,510	
1926	Jan. 18, 1926	13.3	8,020	1943	Mar. 6, 1943	13.21	7,940	
	Apr. 13, 1926	11.13	6,300		Apr. 19, 1943	12.37	7,300	
1927	Dec. 29, 1926	14.14	8,660	1944	Feb. 18, 1944	10.78	6,080	
1928	Oct. 3, 1927	16.70	10,800		Mar. 12, 1944	10.92	6,150	
	Dec. 4, 1927	15.02	9,380		Apr. 12, 1944	13.07	7,860	
	Apr. 27, 1928	18.92	12,800	July 15, 1944	11.95	6,980		
	Sept. 6, 1928	21.66	15,700	Sept. 30, 1944	29.22	30,900		
	Sept. 19, 1928	25.44	22,400	1945	July 15, 1945	11.02	6,220	
1929	Feb. 28, 1929	23.3	18,300		Sept. 18, 1945	34.04	43,000	
	Mar. 5, 1929	19.65	13,500	1946	Dec. 25, 1945	10.96	6,220	
	Mar. 23, 1929	13.48	8,180		Feb. 10, 1946	21.86	16,200	
	July 12, 1929	13.05	7,780		June 22, 1946	20.30	14,200	
1930	Oct. 2, 1929	22.13	16,400		July 3, 1946	10.96	6,220	
	July 17, 1930	10.70	6,000	Aug. 4, 1946	11.05	6,220		
1931	Aug. 11, 1931	8.42	4,620	1947	Jan. 14, 1947	11.17	6,380	
1932	Jan. 8, 1932	15.82	10,000		Jan. 20, 1947	14.17	8,740	
	Mar. 6, 1932	19.18	13,100		Sept. 25, 1947	24.71	21,000	
1933	Oct. 17, 1932	16.20	10,400	1948	Feb. 14, 1948	13.60	8,260	
1934	Apr. 10, 1934	12.46	7,380	1949	Nov. 28, 1948	18.85	12,700	
	Sept. 14, 1934	20.3	14,200		Dec. 30, 1948	-	7,000	
	Sept. 29, 1934	16.38	10,600		Jan. 6, 1949	10.69	6,000	
1935	Dec. 1, 1934	18.74	12,600		July 16, 1949	10.85	6,080	
	Mar. 12, 1935	12.30	7,220		Aug. 16, 1949	14.08	8,660	
	1936	Jan. 3, 1936	17.80	11,800	1950	Oct. 31, 1949	11.80	6,820
		Jan. 6, 1936	13.70	8,340		May 15, 1950	11.13	6,300
		Jan. 19, 1936	15.37	9,700	1951	June 18, 1951	18.10	12,100
Feb. 14, 1936		13.69	8,340	1952		Dec. 21, 1951	14.76	9,220
Mar. 17, 1936		16.52	10,700			Jan. 28, 1952	13.35	8,100
Mar. 28, 1936	11.91	6,900	Mar. 4, 1952		25.42	22,400		
Apr. 2, 1936	14.17	8,740	Mar. 24, 1952		16.02	10,200		
Apr. 7, 1936	22.23	16,600	Aug. 31, 1952		22.34	16,700		
1937	Oct. 8, 1936	24.3	20,200	1953	Jan. 9, 1953	10.76	6,080	
	Jan. 1, 1937	11.40	6,520		Feb. 15, 1953	15.87	10,100	
	Jan. 3, 1937	12.80	7,620		Feb. 21, 1953	15.28	9,620	
	Jan. 20, 1937	17.20	11,300	1954	Jan. 16, 1954	11.47	6,600	
	Mar. 25, 1937	12.71	7,540		Jan. 22, 1954	17.53	11,600	
	Aug. 24, 1937	14.83	9,220		Mar. 14, 1954	12.88	7,700	
1938	July 24, 1938	12.67	7,480	1955	Oct. 15, 1954	30.47	34,000	
1939	Dec. 27, 1938	11.01	6,220		Dec. 14, 1954	11.00	6,220	
	Feb. 9, 1939	14.70	9,230		Feb. 6, 1955	17.32	11,400	
	Feb. 26, 1939	14.25	8,780		Apr. 14, 1955	15.78	10,000	
	Feb. 28, 1939	13.45	8,100		Aug. 15, 1955	14.04	8,580	
					Aug. 17, 1955	14.79	9,220	

a From floodmarks, about a quarter of a mile upstream.

b Annual peak only.

CAPE FEAR RIVER BASIN

Peak stages and discharges of Deep River at Ramseur, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Mar. 16, 1956	14.93	9,300	1958	Apr. 11, 1958	12.14	7,060
1957	Feb. 1, 1957	19.76	13,700	1958	May 2, 1958	12.06	7,060
	Apr. 5, 1957	12.79	7,620		1959	Dec. 28, 1958	13.66	8,340
	July 18, 1957	10.86	6,150	Apr. 20, 1959		18.24	12,200
1958	Nov. 25, 1957	13.98	8,580	July 10, 1959		12.07	7,060
	Jan. 25, 1958	15.50	9,780	Aug. 8, 1959	11.15	6,380	
	Apr. 6, 1958	12.40	7,300	Aug. 31, 1959	12.14	7,060	

1010. Bear Creek at Robbins, N. C.

Location--Lat 35°26', long 79°35', on right bank 0.2 mile west of post office in Robbins, Moore County, and a quarter of a mile downstream from Cabin Creek.

Drainage area--134 sq mi.

Gage--Recording Nov. 22, 1939, to Mar. 5, 1958, at site 800 ft upstream at datum 0.65 ft higher; nonrecording thereafter. Datum of gage is 322.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by North Carolina State Highway Commission).

Stage-discharge relation--Defined by current-meter measurements below 7,000 cfs and extended above on basis of slope-area measurements at 23,500 and 43,600 cfs for former site. Defined by current-meter measurements at present site.

Remarks--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	10.08	3,420	1950	May 25, 1950	13.98	5,730
1941	Apr. 5, 1941	12.16	4,810	1951	Apr. 23, 1950	11.13	4,140
		1942	Feb. 17, 1942		13.47	5,510	1951	Apr. 8, 1951	10.83	3,960
1942	Mar. 3, 1942	10.42	3,530	1952	Jan. 28, 1952	13.20		5,360
		10.36	3,530		Feb. 3, 1952	10.06	3,540
		10.40	3,530		Mar. 4, 1952	21.95	16,300
		15.52	6,750		Mar. 24, 1952	10.42	3,720
		1943	Jan. 18, 1943		12.39	4,930	Aug. 31, 1952	23.46	19,500
1943	Feb. 6, 1943	12.00	4,680	1953	Feb. 15, 1953	13.40	5,460
	Mar. 6, 1943	11.40	4,220		Mar. 24, 1953	10.80	3,960
	Apr. 19, 1943	12.39	4,930		Apr. 12, 1953	10.70	3,900
	July 7, 1943	10.50	3,590		Sept. 27, 1953	10.45	3,720
	1944	Jan. 15, 1944	11.87		4,610	1954	Jan. 16, 1954	14.43	5,930
Mar. 20, 1944		15.85	6,770	Jan. 22, 1954	15.46		6,590
Apr. 12, 1944		13.20	5,630	1955	Oct. 15, 1954	27.52	29,500
July 15, 1944		20.54	13,400		Feb. 7, 1955	14.86	6,330
Sept. 30, 1944		12.43	4,930		Feb. 11, 1955	11.18	4,200
1945	July 27, 1945	10.84	3,790	Apr. 14, 1955	11.90	4,620	
	Sept. 15, 1945	12.17	4,810	Aug. 17, 1955	10.68	4,020	
	Sept. 18, 1945	32.02	38,800	Sept. 3, 1955	14.18	5,880	
1946	Dec. 29, 1945	10.27	3,560	1956	Mar. 16, 1956	14.38	6,000
	Feb. 10, 1946	10.62	3,740		July 20, 1956	34.57	43,600
	Apr. 30, 1946	11.54	4,310		Sept. 26, 1956	11.08	4,100
	July 22, 1946	14.32	5,880	1957	Feb. 28, 1957	8.34	3,100
	Aug. 23, 1946	11.71	4,460		1958	Nov. 23, 1957	14.33	4,920
1947	Oct. 9, 1946	10.95	3,980	Nov. 25, 1957		13.72	4,110
	Jan. 14, 1947	13.85	5,640	Nov. 30, 1957		13.66	4,110
1948	Feb. 12, 1948	15.25	6,410	Jan. 14, 1958		13.78	4,240
	Mar. 7, 1948	11.43	4,320	Jan. 25, 1958		14.45	5,060
	Apr. 1, 1948	10.74	3,900	Apr. 6, 1958	13.8	6,300	
	May 30, 1948	11.22	4,200	Apr. 10, 1958	9.7	3,880	
1949	Nov. 29, 1948	15.39	6,530	Apr. 28, 1958	13.15	5,920	
	Aug. 17, 1949	15.3	6,470	May 7, 1958	10.36	4,280	
	Aug. 28, 1949	13.7	5,600	1959	Dec. 28, 1958	9.31	3,650
1950	Oct. 8, 1949	18.25	9,900		Apr. 12, 1959	11.7	5,030
	May 1, 1950	11.17	4,200		Apr. 20, 1959	13.26	5,980
				June 2, 1959	10.3	4,220	

1010.3. Falls Creek near Bennett, N. C.

Location--Lat 35°33', long 79°30', at culvert on State Highway 902, 2½ miles southeast of Bennett, Chatham County, and 6 miles upstream from mouth.

Drainage area--2.97 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 400 cfs and extended above on basis of culvert measurement at 1,410 cfs.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	April 1954	21.75	395	1957	December 1956	21.44	348
1955	Oct. 15, 1954	25.79	1,410	1958	May 6, 1958	21.74	394
1956	Mar. 16, 1956	21.79	398	1959	July 10, 1959	23.70	795

1014.8. Sugar Creek near Tramway, N. C.

Location--Lat 35°25', long 79°15', at culvert 1¼ miles upstream from mouth, and 2 miles southwest of Tramway, Lee County.

Drainage area--0.85 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by culvert measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 21, 1954	27.3	327	1957	Aug. 24, 1957	25.4	270
1955	Sept. 3, 1955	30.7	400	1958	April 1958	22.42	170
1956	July 19, 1956	24.71	250	1959	Apr. 21, 1959	22.31	166

1018.9. Bear Creek near Goldston, N. C.

Location--Lat 35°38', long 79°18', at bridge 3 miles northeast of Goldston, Chatham County, and 6½ miles upstream from mouth.

Drainage area--43.2 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 4,200 cfs and extended above on basis of slope-area measurement at 4,780 cfs.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Aug. 31, 1952	30.60	10,000	1956	Mar. 16, 1956	21.58	2,500
1953	July 1953	19.07	1,950	1957	June 7, 1957	20.66	2,360
1954	January 1954	21.91	2,650	1958	May 7, 1958	20.8	2,400
1955	Oct. 15, 1954	24.20	4,780	1959	July 10, 1959	26.86	5,370

CAPE FEAR RIVER BASIN

1020. Deep River at Moncure, N. C.

Location--Lat 35°36', long 79°05', on right bank $1\frac{1}{2}$ miles northwest of Moncure, Chatham County, $2\frac{1}{2}$ miles downstream from Rocky River, and $4\frac{1}{2}$ miles upstream from confluence with Haw River.

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

Gage--Recording. Datum of gage is 185.06 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Base for partial-duration series, 15,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	May 21, 1931	7.59	15,500	1947	Jan. 14, 1947	8.40	19,100
	Aug. 22, 1931	7.95	17,200		Jan. 20, 1947	7.82	16,500
1932	Jan. 10, 1932	8.48	19,500	1948	Feb. 6, 1948	7.46	15,200
	Mar. 6, 1932	9.46	25,000		Feb. 14, 1948	9.35	24,400
1933	Oct. 17, 1932	8.31	18,600	1949	Nov. 4, 1948	7.53	15,200
	Dec. 14, 1932	7.66	15,900		Nov. 29, 1948	9.40	24,400
1934	Sept. 8, 1934	7.86	16,800	1950	Dec. 30, 1948	7.62	15,600
		8.10	17,600		Aug. 29, 1949	7.85	16,500
1935	Dec. 1, 1934	8.10	17,600	1951	Oct. 8, 1949	8.63	20,100
	Sept. 6, 1935	9.03	22,100		May 15, 1950	8.53	19,600
1936	Jan. 3, 1936	9.68	26,200	1952	Apr. 8, 1951	7.48	15,200
	Jan. 19, 1936	8.67	20,500		Jan. 29, 1952	7.96	17,300
	Feb. 5, 1936	7.56	15,500	Nov. 29, 1952	12.27	43,700	
	Feb. 15, 1936	8.52	19,500	Mar. 4, 1952	7.51	15,200	
	Mar. 18, 1936	9.52	25,000	Mar. 25, 1952	11.63	38,800	
	Apr. 2, 1936	7.94	16,800	Sept. 1, 1952	9.26	23,800	
Apr. 7, 1936	10.47	31,400	Sept. 22 or 23, 1952	-	(a)		
1937	Jan. 29, 1937	7.48	15,100	1953	Nov. 21, 1952	-	(a)
1938	July 26, 1938	8.92	21,500		Jan. 24, 1953	7.47	15,200
		9.10	22,600		Feb. 15, 1953	8.66	20,600
1939	Feb. 10, 1939	7.88	16,800	Mar. 24, 1953	8.98	22,200	
	Feb. 26, 1939	7.98	17,200	1954	Jan. 16, 1954	8.66	20,600
	Aug. 19, 1939	8.75	21,000		Jan. 23, 1954	9.87	27,500
	Aug. 28, 1939	8.75	21,000	1955	Oct. 16, 1954	9.77	26,800
1940	Feb. 7, 1940	7.03	13,100		Feb. 7, 1955	8.53	19,600
		7.11	13,500		Aug. 18, 1955	8.69	20,600
1941	Apr. 5, 1941	7.11	13,500		Sept. 3, 1955	8.37	19,100
1942	Feb. 17, 1942	7.61	15,400	1956	Mar. 16, 1956	8.97	22,200
		8.74	20,500		1957	Mar. 1, 1957	8.07	17,800
Apr. 19, 1943	8.07	17,400	1958	Nov. 25, 1957		8.72	20,600
July 14, 1943	9.01	22,100		Jan. 14, 1958		8.42	19,100
1944	Apr. 12, 1944	8.42	19,000	Jan. 25, 1958	8.34	18,700	
	July 15, 1944	9.53	25,000	Feb. 28, 1958	7.59	15,600	
	Sept. 30, 1944	10.65	32,100	Apr. 11, 1958	7.53	15,200	
1945	Oct. 2, 1944	7.80	16,300	Apr. 30, 1958	8.73	20,600	
	Sept. 18, 1945	17.20	80,300	May 7, 1958	8.35	19,100	
1946	Dec. 26, 1945	7.50	15,200	1959	Apr. 20, 1959	8.20	18,200
	Feb. 11, 1946	9.33	23,800		July 10, 1959	10.60	32,100

a Unknown, but probably greater than 15,000 cfs.

1020.82. Cape Fear River near Moncure, N. C.

Location--Lat 35°35', long 79°03', at Cape Fear steam plant of Carolina Power and Light Co., half a mile downstream from confluence of the Haw and Deep Rivers and 3 miles southeast of Moncure, Chatham County.

Drainage area--3,140 sq mi, approximately.

Gage--Nonrecording. Datum of gage is 150.0 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Not defined.

Bankfull stage--20 ft (U.S. Weather Bureau).

Remarks--Stages affected by Buckhorn Shoals Dam 6½ miles downstream. Gage heights furnished by U.S. Weather Bureau and are generally once-daily readings with occasional readings on the crest. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Sept. 18, 1945	35.6		1952	Mar. 5, 1952	26.9	
1946	Feb. 11, 1946	23.8		1953	Feb. 15, 1953	21.3	
1947	Jan. 20, 1947	20.7		1954	Jan. 23, 1954	23.3	
1948	Feb. 15, 1948	21.7		1955	Oct. 16, 1954	23.0	
1949	Nov. 29, 1948	23.1		1956	Mar. 17, 1956	21.3	
1950	Oct. 8, 1949	20.1		1957	Feb. 2, 1957	20.9	
				1958	Nov. 26, 1957	21.4	
1951	Apr. 9, 1951	18.7		1959	Apr. 13, 1959	19.3	

1025. Cape Fear River at Lillington, N. C.

Location--Lat 35°24', long 78°49', near right bank in downstream end of pier of downstream bridge on U.S. Highway 401, 1,800 ft downstream from Norfolk Southern Railway bridge, 0.5 mile north of Lillington, Harnett County, 1 mile downstream from Neill Creek, and at mile 178.

Drainage area--3,440 sq mi, approximately.

Gage--Nonrecording Dec. 6, 1923, to Oct. 7, 1927; recording thereafter. Datum of gage is 104.62 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements except for 1945 flood, which is not determined.

Remarks--Base for partial-duration series, 30,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Aug. 3, 1924	15.2	34,900	1932	Jan. 9, 1932	17.8	46,600
	Sept. 30, 1924	18.8	52,400		Mar. 7, 1932	18.74	50,900
1925	Jan. 1, 1925	16.2	39,400	1933	Oct. 18, 1932	13.75	29,200
	Jan. 12, 1925	17.6	46,200	1934	Apr. 10, 1934	16.45	40,000
1926	Jan. 19, 1926	13.3	27,300	1935	Nov. 30, 1934	14.22	30,800
1927	Mar. 7, 1927	14.8	33,200		Dec. 2, 1934	16.55	41,000
1928	Dec. 5, 1927	17.0	42,800		Sept. 6, 1935	15.95	38,200
	Apr. 28, 1928	20.2	58,500	1936	Jan. 4, 1936	19.35	54,400
	Aug. 17, 1928	16.2	39,200		Jan. 7, 1936	15.94	37,800
	Aug. 23, 1928	14.1	30,400		Jan. 20, 1936	17.75	46,500
	Sept. 7, 1928	22.3	69,800		Feb. 5, 1936	14.44	31,600
	Sept. 20, 1928	24.8	84,000		Feb. 15, 1936	18.14	48,000
1929	Mar. 1, 1929	21.9	67,700		Mar. 18, 1936	18.71	50,900
1930	Oct. 2, 1929	27.55	107,000		Mar. 28, 1936	14.05	30,400
					Apr. 3, 1936	16.15	39,200
1931	Aug. 21, 1931	13.75	29,200		Apr. 7, 1936	22.85	73,200
				1937	Jan. 4, 1937	14.5	32,000

CAPE FEAR RIVER BASIN

Peak stages and discharges of Cape Fear River at Lillington, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 21, 1937	14.91	33,600	1949	Aug. 29, 1949	16.98	42,800
	Jan. 29, 1937	15.21	34,800	1950	Oct. 8, 1949	15.15	34,800
	Apr. 26, 1937	14.93	33,600		Nov. 2, 1949	15.38	35,700
1938	July 27, 1938	17.87	47,000		May 15, 1950	15.55	36,500
	1939	Feb. 10, 1939	18.0	47,500	1951	Apr. 9, 1951	15.18	34,800
Feb. 27, 1939		15.4	35,700	1952	Dec. 22, 1951	14.43	31,600
Mar. 1, 1939		15.27	35,300		Jan. 29, 1952	15.70	37,000
Aug. 19, 1939		17.92	47,000		Feb. 4, 1952	14.00	30,000
Aug. 29, 1939		17.89	47,000		Mar. 5, 1952	22.55	77,100
1940	Feb. 8, 1940	14.54	32,000		Mar. 25, 1952	15.20	39,200
	1941	Nov. 15, 1940	14.40	31,600	Sept. 1, 1952	20.39	59,600
1942		Feb. 18, 1942	14.16	30,800	1953	Nov. 22, 1952	15.25	34,800
	1943	Jan. 19, 1943	16.40	40,000		Jan. 25, 1953	14.60	32,400
Feb. 7, 1943		14.25	30,800	Feb. 16, 1953		17.34	44,100
Mar. 7, 1943		14.52	32,000	Mar. 24, 1953		15.93	37,800
Apr. 20, 1943		15.68	37,000	1954	Jan. 17, 1954	16.45	40,000
July 14, 1943	16.55	40,900	Jan. 23, 1954		19.83	56,500	
1944	Jan. 16, 1944	14.67	32,800	1955	Oct. 17, 1954	18.50	49,900
	Mar. 13, 1944	14.60	32,400		Feb. 7, 1955	16.50	40,500
	Mar. 21, 1944	16.90	42,300		Apr. 15, 1955	14.20	30,800
	Apr. 13, 1944	16.85	41,800		Aug. 18, 1955	17.04	42,800
	July 16, 1944	16.57	40,900		Sept. 4, 1955	18.00	47,500
1945	Oct. 1, 1944	20.6	60,600	1956	Mar. 17, 1956	17.84	46,500
	Sept. 19, 1945	33.19	-		1957	Feb. 2, 1957	16.8	41,800
1946	Feb. 11, 1946	19.45	a54,400	Mar. 1, 1957		16.1	38,700
	1947	Jan. 14, 1947	16.30	39,600	1958	Nov. 26, 1957	17.80	46,500
Jan. 21, 1947		16.03	38,300	Jan. 15, 1958		16.00	38,300
Sept. 27, 1947		15.13	34,400	Jan. 26, 1958		16.80	41,800
1948	Feb. 7, 1948	14.74	32,800	Feb. 28, 1958		14.13	30,400
	Feb. 15, 1948	18.50	49,900	Apr. 12, 1958		-	(b)
	Mar. 8, 1948	14.50	32,000	Apr. 30, 1958	-	(b)	
1949	Nov. 29, 1948	19.15	53,400	May 7, 1958	17.35	44,600	
	Dec. 31, 1948	15.40	35,700	1959	Dec. 29, 1958	15.32	35,300
			Apr. 13, 1959		16.02	38,300	
			Apr. 20, 1959		16.42	40,000	

a Annual peak only.

b Unknown, but probably greater than 30,000 cfs.

1029.1. Dunhams Creek tributary near Carthage, N. C.

Location.--Lat 35°19', long 79°23', at culvert half a mile upstream from mouth and 3½ miles southeast of Carthage, Moore County.

Drainage area.--2.19 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurement at 21 cfs, by culvert measurement at 206 cfs and by theoretical culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 21, 1954	22.45	206	1957	June 5, 1957	22.12	170
1955	Sept. 7, 1955	21.34	98	1958	May 6, 1958	21.50	111
1956	Mar. 16, 1956	20.65	51	1959	Apr. 21, 1959	24.52	410

1029.3. Crane Creek near Vass, N. C.

Location.--Lat 35°17', long 79°16', at bridge on U.S. Highway 1, half a mile upstream from Little Crane Creek and 2 miles northeast of Vass, Moore County.

Drainage area.--32.4 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 1,590 cfs and extended above on basis of contracted-opening measurement at 2,650 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 21, 1954	23.99	1,600	1957	October 1956	21.75	800
1955	Sept. 2, 1955	24.37	1,800	1958	Nov. 26, 1957	21.55	720
1956	Mar. 16, 1956	21.62	740	1959	Apr. 22, 1959	25.95	2,650

1030. Little River at Manchester, N. C.

(Published as "Lower Little River" prior to Oct. 1, 1950)

Location.--Lat 35°11'38", long 78°59'14", at bridge on State Highway 87 at Manchester, Cumberland County, 0.3 mile upstream from Tank Creek, $1\frac{1}{4}$ miles downstream from Atlantic Coastline Railway bridge, and 12 miles southwest of Linden.

Drainage area.--348 sq mi.

Gage.--Recording. Datum of gage is 127.38 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 28, 1939	12.41	2,800	1945	Aug. 5, 1945	16.30	4,360
	Mar. 3, 1939	12.77	2,960		Sept. 18 or 19, 1945	29.0	(a)
	Aug. 27, 1939	9.27	1,770				
1940	Mar. 15, 1940	6.60	1,110	1946	Dec. 7, 1945	9.80	1,840
1941	Apr. 7, 1941	12.28	2,760		Dec. 31, 1945	10.50	2,080
1942	Aug. 15, 1942	9.39	1,800	1947	Apr. 16, 1947	11.17	2,340
	Aug. 21, 1942	11.70	2,540	1948	Nov. 3, 1947	10.60	2,120
1943	July 15, 1943	10.58	2,150		Feb. 14, 1948	15.75	4,160
1944	Jan. 17, 1944	9.79	1,870		Mar. 9, 1948	12.13	2,680
	Feb. 11, 1944	11.44	2,410	1949	Nov. 30, 1948	11.47	2,450
	Mar. 9, 1944	9.19	1,700		May 12, 1949	9.37	1,720
	Mar. 14, 1944	11.07	2,300		Aug. 29, 1949	16.58	4,480
	Mar. 22, 1944	17.56	4,880	1950	Oct. 10, 1949	11.20	2,340
	Apr. 15, 1944	14.62	3,680		July 15, 1950	10.15	1,990
	Apr. 17, 1944	8.86	1,620				
	July 17, 1944	16.35	4,400				

a Not determined, but maximum during period of record.

CAPE FEAR RIVER BASIN

1033.9. South Prong Anderson Creek near Lillington, N. C.
(Published as 'Anderson Creek tributary' prior to Oct. 1, 1958)

Location.--Lat 35°15'31", long 78°55'27", at culvert on State Highway 210, 2½ miles upstream from mouth, and 11 miles southwest of Lillington, Harnett County.

Drainage area.--7.20 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	November 1952	21.28	92	1957	March 1957	21.18	86
1954	December 1953	21.85	132	1958	May 7, 1958	21.41	101
1955	Aug. 17, 1955	21.81	130	1959	April 1959	21.70	180
1956	Mar. 16, 1956	21.01	76				

1035. Little River at Linden, N. C.
(Published as "Lower Little River" prior to Oct. 1, 1950)

Location.--Lat 35°15'46", long 78°46'35", on left bank 10 ft downstream from bridge on U.S. Highway 401, 1.6 miles west of Linden, Cumberland County, 2 miles upstream from Stewart Creek, and 4½ miles upstream from mouth.

Drainage area.--460 sq mi.

Gage.--Nonrecording Nov. 22, 1928, to Aug. 26, 1934; recording thereafter. Datum of gage is 73.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Since June 18, 1948, auxiliary nonrecording gage 2¼ miles downstream, read twice daily or more often during periods of backwater from Cape Fear River. Datum of auxiliary gage is 73.10 ft lower than datum of base gage.

Stage-discharge relation.--Defined by current-meter measurements. Relation frequently affected by submergence due to backwater from Cape Fear River.

Remarks.--Peak stages frequently affected by backwater from Cape Fear River. Prior to Oct. 1, 1948, only annual peaks are shown. Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Sept. 20 or 21, 1928	a37.3	13,000	1949	Aug. 29, 1949	16.95	5,260
1929	Mar. 1, 1929	a20.60	6,160	1950	Oct. 10, 1949	8.53	2,200
1930	Oct. 2, 1929	a35.47	10,300		July 15, 1950	9.53	2,580
1931	Aug. 22, 1931	14.43	4,980	1951	Apr. 10, 1951	6.32	1,300
1932	Jan. 10, 1932	11.33	3,590	1952	Mar. 6, 1952	a21.35	2,830
1933	Aug. 19, 1933	7.15	1,760		Mar. 27, 1952	8.78	2,280
1934	Apr. 10, 1934	8.40	2,280		Sept. 1, 1952	a18.16	5,860
1935	Sept. 12, 1935	8.82	2,470	1953	Nov. 22, 1952	9.45	2,580
1936	Apr. 8, 1936	25.4	5,630		Feb. 16, 1953	10.26	2,460
1937	Jan. 30, 1937	a14.83	4,500		Mar. 14, 1953	9.46	2,610
1938	July 26, 1938	a11.47	2,500	1954	Jan. 18, 1954	8.53	2,250
1939	Mar. 3, 1939	a12.05	3,600		Jan. 23, 1954	a18.00	5,770
1940	Mar. 15, 1940	7.16	1,710	1955	Oct. 16, 1954	8.35	2,210
1941	Apr. 7, 1941	9.67	2,840		Oct. 18, 1954	a10.30	2,540
1942	Aug. 21, 1942	10.16	3,060		Aug. 18, 1955	a12.49	3,210
1943	July 14, 1943	9.98	2,970		Aug. 23, 1955	10.93	3,180
1944	Mar. 22, 1944	14.70	4,860		Sept. 4, 1955	17.67	5,370
1945	Sept. 18, 1945	a41.47	13,500	1956	Mar. 19, 1956	9.52	2,590
1946	Dec. 31, 1945	9.90	2,840		May 6, 1956	8.32	2,210
1947	Apr. 16, 1947	10.27	3,010	1957	Oct. 22, 1956	8.57	2,290
1948	Feb. 15, 1948	17.14	4,500		Mar. 1, 1957	a11.32	3,310
1949	Dec. 1, 1948	a13.21	2,860		May 14, 1957	9.67	2,710
	May 12, 1949	8.83	2,320				
	June 29, 1949	8.30	2,130				

a Occurred at different time than peak discharge.

Peak stages and discharges of Little River at Linden, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Oct. 2, 1957	9.48	2,640	1959	Mar. 8, 1959	8.18	2,130
	Nov. 20, 1957	10.11	2,870		Apr. 13, 1959	14.64	4,320
	Nov. 26, 1957	a15.81	4,340		Apr. 22, 1959	13.23	4,080
	Jan. 16, 1958	8.30	2,170		June 5, 1959	9.37	2,600
	Jan. 27, 1958	a9.41	2,470		July 17, 1959	12.73	3,920
	May 1, 1958	a9.02	2,270		July 29, 1959	8.55	2,290
	May 8, 1958	a12.46	3,180		July 31, 1959	9.73	2,750
1959	Feb. 5, 1959	9.35	2,600				

a Occurred at different time than peak discharge.

1040. Cape Fear River at Fayetteville, N. C.

Location--Lat 35°02'49", long 78°51'36", at bridge on Person Street at Fayetteville, Cumberland County, 1,500 ft downstream from Cross Creek.

Drainage area--4,370 sq mi, approximately.

Gage--Nonrecording Jan. 1, 1889, to Mar. 10, 1929; recording thereafter.

Datum of gage is 20.52 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements using rate of change in stage or fall as a factor since 1904.

Bankfull stage--35 ft (U.S. Weather Bureau).

Remarks--Discharges in parentheses, not previously published and subject to considerable error, are given only for purposes of comparison. Gage heights 1918-28 furnished by U.S. Weather Bureau. Peak stages not generally concurrent with peak discharges. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1889	July 29, 1889	45.0	51,100	1925	Oct. 2, 1924	46.9	(59,300)
1890	Nov. 25, 1889	32.0	26,800	1926	Feb. 5, 1926	30.3	(24,400)
1891	May 30, 1891	45.1	51,300	1927	Mar. 9, 1927	35.4	(29,100)
1892	Jan. 21, 1892	49.5	60,500	1928	Sept. 21, 1928	65.4	107,000
1893	Feb. 15, 1893	42.3	44,600	1929	Mar. 2, 1929	52.2	61,600
1894	Oct. 24, 1893	42.0	44,000	1930	Oct. 4, 1929	65.00	110,000
1895	Jan. 12, 1895	58.0	83,000	1931	Aug. 23, 1931	36.76	35,300
1896	July 11, 1896	49.5	60,500	1932	Mar. 8, 1932	42.0	46,500
1897	Mar. 16-17, 1897	37.6	36,000	1933	Dec. 16, 1932	33.34	30,500
1898	Aug. 22, 1898	29.2	22,900	1934	Apr. 11, 1934	35.1	36,700
1899	Feb. 9, 1899	52.0	66,500	1935	Dec. 2, 1934	38.2	39,700
1900	Apr. 21-22, 1900	44.0	48,000	1936	Apr. 8, 1936	54.0	75,000
1901	May 24, 1901	58.5	84,500	1937	Jan. 30, 1937	39.1	41,700
1902	Mar. 2, 1902	41.7	43,400	1938	July 27, 1938	42.00	44,200
1903	Mar. 25, 1903	50.5	62,700	1939	Feb. 11, 1939	39.20	45,600
1904	Sept. 17, 1904	50.0	(61,500)	1940	Feb. 8, 1940	32.95	32,400
1905	Feb. 22, 1905	46.4	(54,000)	1941	Nov. 16, 1940	32.0	(31,100)
1906	Aug. 30, 1906	40.5	(41,000)	1942	Mar. 11, 1942	30.3	(27,400)
1907	June 5, 1907	28.0	(21,500)	1943	July 15, 1943	37.6	(40,900)
1908	Aug. 29, 1908	a68.0	115,000	1944	Mar. 21, 1944	40.2	(46,300)
1909	Aug. 5, 1909	47.6	(56,800)	1945	Sept. 20, 1945	68.8	122,000
1910	June 16, 1910	58.5	(55,300)	1946	Feb. 12, 1946	44.2	(55,500)
1911	Jan. 5, 1911	30.2	(24,200)	1947	Jan. 21, 1947	38.2	(40,300)
1912	Mar. 18, 1912	50.0	(61,500)	1948	Feb. 16, 1948	47.2	(53,800)
1913	Mar. 17, 1913	37.1	(33,300)	1949	Aug. 30, 1949	41.1	(48,600)
1914	Feb. 22, 1914	38.3	(35,000)	1950	Nov. 3, 1949	36.6	(35,200)
1915	Dec. 27, 1914	41.0	(42,000)	1951	Apr. 9, 1951	33.8	(34,800)
1916	Feb. 4, 1916	44.5	(50,000)	1952	Mar. 6, 1952	51.9	(70,000)
1917	Mar. 6, 1917	42.0	(44,000)	1953	Feb. 16, 1953	39.9	(45,800)
1918	Apr. 25, 1918	44.9	(50,900)	1954	Jan. 24, 1954	47.1	(60,800)
1919	July 24, 1919	51.3	(64,700)	1955	Sept. 4, 1955	43.2	(52,300)
1920	July 21, 1920	40.9	(41,800)	1956	Mar. 17, 1956	39.2	(43,700)
1921	Feb. 12, 1921	47.3	(55,900)	1957	Mar. 2, 1957	39.4	(41,900)
1922	Feb. 17, 1922	46.3	(53,800)	1958	Nov. 27, 1957	44.1	(49,500)
1923	Mar. 16, 1923	39.3	(38,900)	1959	Apr. 14, 1959	39.6	(43,600)
1924	Feb. 21, 1924	33.3	(29,000)				

a From floodmark witnessed by local residents.

1040.8. Reese Creek near Fayetteville, N. C.

Location.--Lat 35°04'49", long 78°47'45", at bridge on old U.S. Highway 301, 3.2 miles upstream from mouth and 4.3 miles northeast of Fayetteville, Cumberland County.

Drainage area.--8.05 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	April 1953	15.45	56	1957	March 1957	19.79	265
1954	-	-	(a)	1958	May 7, 1958	16.92	105
1955	Sept. 20, 1955	22.56	550	1959	July 31, 1959	27.64	340
1956	-	-	(a)				

a Peak stage below gage; discharge less than 100 cfs.

1045. Rockfish Creek near Hope Mills, N. C.

Location.--Lat 34°57'57", long 78°55'04", on left bank 50 ft upstream from bridge on U.S. Highway 301, at mouth of Little Rockfish Creek, 1 $\frac{3}{4}$ miles east of town of Hope Mills, Cumberland County, and 5 $\frac{3}{4}$ miles upstream from mouth.

Drainage area.--284 sq mi, including that of Little Rockfish Creek.

Gage.--Recording. Datum of gage is 52.25 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Since June 18, 1948, auxiliary non-recording gage 4 miles downstream at datum 52.25 ft lower.

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs and extended to 8,000 cfs on basis of computation of flows over dams three-quarters of a mile upstream on Rockfish Creek and 1 $\frac{3}{4}$ miles upstream on Little Rockfish Creek. Relation affected by slope; prior to establishment of auxiliary gage, flood records adjusted for backwater on basis of discharge measurements and percent of submergence based on stages of Cape Fear River at Fayetteville and lock 3.

Remarks.--Records include flow of Little Rockfish Creek. Peak stages affected by backwater from Cape Fear River. Slight regulation by reservoirs upstream from station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 26, 1939	14.08	2,280	1947	Sept. 24, 1947	12.45	1,880
1940	Jan. 15, 1940	7.29	813	1948	Feb. 15, 1948	15.61	1,700
				1949	Aug. 29, 1949	22.46	4,000
1941	Aug. 29, 1941	7.43	835	1950	July 3, 1950	17.39	2,950
1942	Aug. 15, 1942	22.59	4,530				
1943	July 9, 1943	13.30	2,090	1951	Oct. 23, 1950	8.68	1,050
1944	Aug. 2, 1944	12.09	1,810	1952	Sept. 1, 1952	20.88	3,590
1945	Sept. 18, 1945	31.75	8,000	1953	May 2, 1953	12.55	1,670
				1954	Jan. 23, 1954	10.44	1,290
1946	July 14, 1946	17.12	3,020				

a Occurred at different time than peak discharge.

1055. Cape Fear River at lock 3, near Tarheel, N. C.

Location.--Lat 34°50'05", long 78°49'27", on right bank 100 ft upstream from lock 3, 1 mile downstream from county line, 7 miles north of Tarheel, Bladen County, 9 miles upstream from Philips Creek, and at mile 123.

Drainage area.--4,810 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 8, 1939; recording thereafter. Datum of gage is 28.968 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Jan. 14, 1943, auxiliary nonrecording gage 40c ft downstream on lower end of lock wall. Auxiliary recording gage Jan. 14, 1943, to Sept. 30, 1953, 600 ft downstream; thereafter 1.8 miles downstream at same datum.

Stage-discharge relation.--Defined by current-meter measurements below 55,000 cfs, using submergence of lock and dam as a factor. Prior to establishment of present auxiliary gage some peak discharges were not determined due to submergence of auxiliary gages then in use.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	July 28, 1938	24.0	-	1949	Dec. 1, 1948	25.63	-
1939	Mar. 3, 1939	22.99	-	1950	Nov. 3, 1949	20.00	31,800
1940	Feb. 9, 1940	16.83	-				
				1951	Apr. 10, 1951	17.56	31,400
1941	Nov. 16, 1940	15.64	30,000	1952	Mar. 6, 1952	29.92	70,600
1942	Mar. 10, 1942	a15.09	25,900	1953	Feb. 16, 1953	a21.93	41,000
1943	Jan. 20, 1943	b20.42	39,700	1954	Jan. 24, 1954	a27.64	52,000
1944	Mar. 22, 1944	22.60	42,500	1955	Sept. 4, 1955	a24.61	53,000
1945	Sept. 22, 1945	43.44	-				
				1956	Mar. 18, 1956	21.87	36,800
1946	Feb. 13, 1946	25.24	-	1957	Mar. 2, 1957	22.05	37,000
1947	Jan. 22, 1947	a21.05	38,300	1958	Nov. 27, 1957	25.85	43,800
1948	Feb. 16, 1948	28.23	-	1959	Apr. 14, 1959	22.39	41,500

a Occurred at different time than peak discharge.

b Occurred on July 15, 1943.

1055.44. Cape Fear River at lock 2, near Elizabethtown, N. C.

Location.--Lat 34°37'37", long 78°34'44", at lock 2, 1 mile upstream from Turnbull Creek, $1\frac{1}{2}$ miles east of Elizabethtown, Bladen County.

Drainage area.--4,980 sq mi, approximately.

Gage.--Nonrecording. Dec. 1, 1910, to July 30, 1918, at Flat Boat Crossing a quarter of a mile north of Elizabethtown and about 2 miles upstream from lock 2. Datum of gage is 9.55 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--20 ft (U.S. Weather Bureau).

Remarks.--Gage heights furnished by U.S. Weather Bureau and are generally once-daily readings with occasional readings on the crest. Records 1910-14 are fragmentary, but peaks shown during this period are probably maximum for year. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Aug. 29, 1908	41.0	-	1922	Feb. 19, 1922	32.2	-
				1923	Mar. 20, 1923	30.2	-
1911	Sept. 2, 1911	20.0	-	1924	Feb. 23, 1924	27.2	-
1912	Mar. 19, 1912	33.5	-	1925	Dec. 3, 1924	33.8	-
1913	Mar. 18, 1913	28.2	-				
				1926	Feb. 6, 1926	25.2	-
1915	June 5, 1915	32.0	-	1927	Mar. 11, 1927	27.4	-
				1928	Sept. 23, 1928	39.1	-
1916	Feb. 6, 1916	30.2	-	1929	Mar. 4, 1929	33.8	-
1917	Mar. 8, 1917	30.3	-	1930	Oct. 6, 1929	38.9	-
1918	Apr. 24, 1918	33.9	-				
1919	July 25, 1919	34.2	-	1931	Aug. 24, 1931	29.0	-
1920	July 23, 1920	29.9	-	1932	Jan. 12, 1932	30.9	-
				1933	Dec. 17, 1932	27.2	-
1921	Feb. 14, 1921	32.3	-	1934	Apr. 12, 1934	26.6	-

CAPE FEAR RIVER BASIN

Peak stages of Cape Fear River at lock 2, near Elizabethtown, N.C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Dec. 4, 1934	29.3	-	1947	Jan. 23, 1947	29.3	-
				1948	Feb. 17, 1948	32.9	-
1936	Apr. 10, 1936	34.8	-	1949	Dec. 2, 1948	31.7	-
1937	Jan. 31, 1937	29.6	-	1950	Nov. 4, 1949	28.5	-
1938	July 28, 1938	30.7	-				
1939	Mar. 3-4, 1939	30.8	-	1951	Apr. 11, 1951	26.7	-
1940	Feb. 9, 1940	26.0	-	1952	Mar. 7-8, 1952	34.2	-
	Aug. 18, 1940	26.0	-	1953	Nov. 24, 1952	30.1	-
				1954	Jan. 26, 1954	32.6	-
1941	Nov. 17, 1940	24.7	-	1955	Sept. 6, 1955	31.4	-
1942	Mar. 11, 1942	25.4	-				
1943	July 15, 1943	28.7	-	1956	Mar. 19, 1956	23.4	-
1944	Mar. 23, 1944	30.3	-	1957	Mar. 4, 1957	23.5	-
1945	Sept. 23, 1945	43.2	-	1958	Nov. 28, 1957	31.7	-
				1959	Apr. 15, 1959	30.2	-
1946	Feb. 14, 1946	31.1	-				

1055.7. Browns Creek near Elizabethtown, N. C.

Location--Lat 34°36'32", long 78°36'57", at bridge on U.S. Highway 701, 1.5 miles south of Elizabethtown, Bladen County, and 3½ miles upstream from mouth.

Drainage area--14.1 sq mi.

Gage--Crest-stage gage. Altitude of gage is 43 ft.

Stage-discharge relation--Defined by current-meter measurements below 740 cfs and extended above by logarithmic plotting.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	March 1953	16.86	32	1957	June 9, 1957	18.50	165
1954	-	-	(a)	1958	July 20, 1958	18.25	128
1955	Sept. 20, 1955	20.93	2,000	1959	Mar. 7, 1959	19.19	340
1956	-	-	(a)				

a Peak stage below gage; discharge less than 165 cfs.

1056.3. Turnbull Creek near Elizabethtown, N. C.

Location--Lat 34°41'32", long 78°35'02", at bridge 4½ miles northeast of Elizabethtown, Bladen County, and 6 miles upstream from mouth.

Drainage area--71.6 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 1,600 cfs and extended above by logarithmic plotting.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	-	27.59	3,500	1956	May 7, 1956	19.87	280
				1957	June 7, 1957	20.31	310
1953	March 1953	18.91	215	1958	January 1958	19.98	286
1954	-	-	(a)	1959	Mar. 7, 1959	21.88	520
1955	Aug. 25, 1955	25.38	1,760				

a Peak stage below gage; discharge less than 220 cfs.

1059. Hood Creek near Leland, N. C.

Location--Lat 34°16'43", long 78°07'34", on right bank at bridge on U.S. Highways 74 and 76, 0.4 mile downstream from Pasture Pond Branch, 1 mile south-east of Maco, and 4 $\frac{1}{4}$ miles northeast of Leland, Brunswick County.

Drainage area--21.6 sq mi.

Gage--Crest-stage gage prior to Nov. 28, 1956; recording thereafter. Altitude of gage is 15 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 650 cfs and extended above by logarithmic plotting. Shifts in relation occur due to hurricane debris and subsequent channel clearing.

Remarks--Only annual peaks are shown prior to 1957. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 12 or 13, 1953	6.23	246	1958	Apr. 7, 1958	6.70	350
1954	Jan. 23, 1954	6.20	240		Apr. 17, 1958	7.52	560
1955	Sept. 20, 1955	10.39	2,050		Aug. 26, 1958	7.18	475
					Sept. 28, 1958	9.18	1,260
1956	May 10, 1956	7.71	600	1959	Dec. 29, 1958	6.61	330
1957	Mar. 15, 1957	7.43	545		Mar. 3, 1959	6.69	350
	June 10, 1957	6.90	400		Mar. 6, 1959	8.14	780
	Sept. 30, 1957	7.68	620		July 15, 1959	5.99	325

1060. Little Coharie Creek near Roseboro, N. C.

Location--Lat 34°57'13", long 78°29'17", on downstream end of center pier of bridge on State Highway 24, 1 $\frac{1}{4}$ miles east of Roseboro, Sampson County, and 1 $\frac{1}{2}$ miles upstream from Bearskin Swamp.

Drainage area--96.4 sq mi.

Gage--Recording. Altitude of gage is 81 ft (estimated from description of previously destroyed bench mark at site).

Stage-discharge relation--Defined by current-meter measurements. Shifts in relation occur due to hurricane and subsequent channel clearing.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	-	all.6	-	1955	Sept. 6, 1955	9.00	1,860
1951	Aug. 9, 1951	6.93	542	1956	May 8, 1956	6.67	271
1952	Mar. 27, 1952	6.98	569	1957	June 10, 1957	7.14	570
1953	May 10, 1953	6.58	379	1958	Jan. 17, 1958	7.14	570
1954	Jan. 26, 1954	7.03	596	1959	Aug. 1, 1959	7.68	1,260

a From information by North Carolina State Highway Commission.

1062.4. Turkey Creek near Turkey, N. C.

Location.--Lat 35°00', long 78°11', at bridge 1 mile north of Turkey, Sampson County, and 2 $\frac{3}{4}$ miles upstream from mouth.

Drainage area.--15.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 4, 1953	19.28	(a)	1957	June 8, 1957	20.88	290
1954	-	-	(a)	1958	May 1958	20.70	236
1955	Sept. 19, 1955	22.60	1,190	1959	Mar. 7, 1959	22.02	810
1956	May 7, 1956	21.36	470				

a Peak stage below gage; discharge less than 50 cfs.

1064.1. Stewarts Creek tributary near Warsaw, N. C.

Location.--Lat 34°57', long 78°04', at culvert on U.S. Highway 117, half a mile upstream from mouth, and 3 miles southeast of Warsaw, Duplin County.

Drainage area.--0.64 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 45 cfs and extended above on basis of culvert measurements at 117 and 142 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	-	-	(a)	1957	June 9, 1957	21.67	40
1954	-	-	(a)	1958	May 1958	21.76	42
1955	Sept. 19, 1955	23.57	117	1959	Mar. 6, 1959	24.20	142
1956	May 7, 1956	21.33	31				

a Peak stage below gage, discharge less than 10 cfs.

1065. Black River near Tomahawk, N. C.

Location.--Lat 34°45'17", long 78°17'21", near center of span or downstream side of bridge on State Highway 411, a quarter of a mile downstream from Clear Run Swamp and 3 $\frac{3}{4}$ miles northeast of Tomahawk, Sampson County.

Drainage area.--680 sq mi.

Gage.--Nonrecording. Datum of gage is 0.39 ft below mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 7,600 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	-	a47.0	11,400	1954	Apr. 12, 1954	35.35	1,860
				1955	Sept. 9, 1955	44.16	7,150
1945	-	a42.6	5,420				
1948	-	a42.6	5,420	1956	May 12, 1956	38.27	2,810
				1957	June 13, 1957	39.93	3,640
1952	Mar. 8, 1952	36.14	2,090	1958	Dec. 1-2, 1957	38.4	2,870
1953	Mar. 16, 1953	34.35	1,510	1959	Mar. 9, 1959	42.56	5,420

a From information by North Carolina State Highway Commission.

1069.1. Big Swamp near Roseboro, N. C.

Location--Lat 34°58'38", long 78°34'07", at bridge on State Highway 24, 4 miles northwest of Roseboro, Sampson County, and 5 miles upstream from mouth.

Drainage area--32.3 sq mi.

Gage--Crest-stage gage. Datum of gage is 77.41 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	December 1952	19.04	280	1957	June 9, 1957	20.75	730
1954	January 1954	19.43	330	1958	May 1958	20.09	470
1955	Aug. 18, 1955	20.48	600	1959	April 1959	20.29	540
1956	-	-	(a)				

a Peak stage below gage; discharge less than 250 cfs.

1070. South River near Parkersburg, N. C.

Location--Lat 34°48'45", long 78°27'26", on downstream side of highway bridge near center of span, at Bladen-Sampson County line, 1.9 miles southwest of Parkersburg, Sampson County.

Drainage area--382 sq mi.

Gage--Nonrecording. Datum of gage is 0.38 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements. Shifts in relation occur due to hurricane debris.

Historical data--Flood of 1918 or 1928 reached a stage of 65.88 ft, from high-water mark witnessed by local resident.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Mar. 8, 1952	60.37	1,480	1956	Feb. 24, 1956	59.96	914
1953	Mar.17-19, 1953	59.5	880	1957	Mar. 6, 1957	60.97	1,560
1954	Jan. 31, 1954	60.74	1,730	1958	May 10, 1958	61.37	1,970
1955	Aug. 24, 1955	64.20	5,000	1959	Mar. 10, 1959	61.43	2,040

1075. Colly Creek near Kelly, N. C.

Location--Lat 34°27'48", long 78°15'26", on right bank 10 ft downstream from bridge on State Highway 53, 4 miles east of Kelly, Bladen County, and $6\frac{3}{4}$ miles upstream from mouth.

Drainage area--103 sq mi.

Gage--Nonrecording prior to Dec. 13, 1950; recording thereafter. Datum of gage is 15.27 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (Corps of Engineers bench mark).

Stage-discharge relation--Defined by current-meter measurements. Shifts in relation occur due to hurricane debris.

Remarks--Only annual peaks are shown.

Peak stages and discharges of Colly Creek near Kelly, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	-	a11.1	-	1953	Mar. 14, 1953	5.35	344
1928	-	b7.7	-	1954	Apr. 12, 1954	5.20	303
				1955	Sept. 22, 1955	7.20	910
1945	September 1945	a10.2	-	1956	Mar. 19, 1956	5.41	236
1951	Oct. 25-29, 1950	5.7	447	1957	Mar. 14-16, 1957	5.39	287
				1958	Apr. 6, 1958	5.70	363
1952	Mar. 7, 1952	5.00	254	1959	Mar. 11-12, 1959	6.85	850

a From information by local resident.

b From information by North Carolina State Highway Commission.

1075.9. Northeast Cape Fear River tributary near Mount Olive, N. C.

Location--Lat 35°11'06", long 77°57'34", at culvert on State Highway 55, 1.4 miles upstream from mouth, and 5.9 miles east of Mount Olive, Wayne County.

Drainage area--0.63 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	-	-	(a)	1957	Sept. 30, 1957	19.30	17
1954	January 1954	18.63	2	1958	May 7, 1958	19.30	17
1955	Sept. 19, 1955	21.63	118	1959	Aug. 4, 1959	20.69	76
1956	Mar. 16, 1956	18.76	5				

a Peak stage below gage; discharge less than 5 cfs.

1076.2. Mathews Creek near Pink Hill, N. C.

Location--Lat 35°05'49", long 77°49'10", at bridge on State Highway 111, 1 mile upstream from mouth and 5½ miles northwest of Pink Hill, Duplin County.

Drainage area--9.29 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 1953	19.90	105	1957	Sept. 30, 1957	19.51	64
1954	January 1954	19.30	48	1958	May 6, June 28, 1958	19.51	64
1955	Sept. 19, 1955	21.96	809	1959	Mar. 6, 1959	21.58	570
1956	May 7, 1956	19.52	65				

1079.8. Limestone Creek near Beulaville, N. C.

Location--Lat 34°55'40", long 77°48'10", at bridge on State Highway 24, 1½ miles west of Beulaville, Duplin County, and 2½ miles upstream from mouth.

Drainage area--49.7 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements.

Remarks--Only annual peaks are shown.

Peak stages and discharges of Limestone Creek near Beulaville, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	21.34	430	1957	Sept.30, 1957	20.66	250
1954	March 1954	21.72	600	1958	May 1958	21.46	470
1955	Sept.20, 1955	24.50	3,300	1959	Mar. 8, 1959	22.89	1,420
1956	May 7, 1956	21.22	350				

1080. Northeast Cape Fear River near Chinquapin, N. C.

Location--Lat 34°49'40", long 77°50'00", on right bank 540 ft downstream from bridge on State Highway 41, half a mile downstream from Muddy Creek, and 1½ miles west of Chinquapin, Duplin County.

Drainage area--600 sq mi.

Gage--Recording. Datum of gage is 17.28 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation--Defined by current-meter measurements. Shifts in relation occur due to sandy nature of channel.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	-	a22.6	-	1949	May 5, 1949	13.21	4,400
				1950	July 11, 1950	15.29	7,800
1928	-	a21.8	-				
				1951	Oct. 22, 1950	11.41	3,080
1941	Mar. 12, 1941	10.80	2,810	1952	Mar. 1, 1952	10.48	2,530
1942	Sept. 11, 1942	12.59	3,850	1953	June 19, 1953	9.77	2,020
1943	Oct. 16, 1942	16.74	11,000	1954	Apr. 12, 1954	10.05	2,210
1944	Feb. 17, 1944	10.90	2,610	1955	Sept. 22, 1955	17.97	15,200
1945	Sept. 20, 1945	13.09	4,370				
				1956	May 10, 1956	12.85	3,850
1946	Jan. 21, 1946	10.95	2,700	1957	June 11, 1957	11.42	2,710
1947	Oct. 12, 1946	12.12	3,500	1958	May 9-10, 1958	12.33	3,380
1948	Feb. 16, 1948	14.93	6,700	1959	Mar. 8, 1959	15.77	10,300

a At site 1,000 ft upstream, from information by North Carolina State Highway Commission.

1085. Rockfish Creek near Wallace, N. C.

Location--Lat 34°44'32", long 78°02'22", on downstream side of bridge on State Highway 41, 1½ miles upstream from Doctors Creek and 2½ miles west of Wallace, Duplin County.

Drainage area--63.8 sq mi; 65.2 sq mi prior to Oct. 1, 1958.

Gage--Nonrecording. At site 1 mile downstream at different datum July 15, 1955, to Sept. 30, 1958. Datum of gage is 29.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements. Relation at former site affected at times by backwater from Doctors Creek.

Historical data--Flood in 1948 reached about same stage as that of Sept. 20, 1955. These two floods were the highest in 20 years (from information by local resident).

Remarks--Only annual peaks shown prior to 1959. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Sept.20, 1955	15.5	2,800	1959	Feb. 6, 1959	8.78	790
					Mar. 6, 1959	11.90	2,470
1956	May 8, 1956	12.45	920		Apr. 14, 1959	9.47	1,050
1957	June 11, 1957	9.53	403		July 15, 1959	10.38	1,450
1958	Apr. 1, 1958	11.5	685				

1086.1. Pike Creek near Burgaw, N. C.

Location.--Lat 34°30'00", long 77°54'10", at culvert on U.S. Highway 117, 4.2 miles south of Burgaw, Pender County, and 4.4 miles upstream from mouth.

Drainage area.--0.55 sq mi.

Gage.--Crest-stage gage. Auxiliary crest-stage gage located on left-bank wing-wall at downstream end of culvert.

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs and extended above on basis of culvert measurement at 506 cfs. Relation affected at times by backwater from Northeast Cape Fear River; fall through culvert used as a factor in determining discharge.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	November 1952	20.81	26	1957	June 9, 1957	20.86	27
1954	December 1953	21.15	35	1958	Sept. 22, 1958	22.97	700
1955	Sept. 20, 1955	22.85	506	1959	Mar. 6, 1959	22.33	178
1956	May 7, 1956	20.14	16				

1086.3. Turkey Creek near Castle Hayne, N. C.

Location.--Lat 34°23'50", long 77°54'50", at bridge on State Highway 40 in Pender County, 3 $\frac{1}{4}$ miles upstream from mouth and 5 miles north of Castle Hayne.

Drainage area.--10.2 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 670 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Sept. 27, 1953	22.05	174	1957	June 6, 1957	21.51	110
1954	December 1953	21.69	125	1958	Sept. 28, 1958	24.07	1,080
1955	Sept. 20, 1955	26.00	4,000	1959	Mar. 7, 1959	23.42	640
1956	Mar. 27, May 7, 1956	21.44	102				

WACCAMAW RIVER BASIN

1089.6. Buckhead Branch near Bolton, N. C.
(Published as "Friar Swamp tributary" prior to Oct. 1, 1957)

Location.--Lat 34°20'52", long 78°26'19", at culvert on State Highway 211, 0.8 mile upstream from mouth and 2.6 miles northwest of Bolton, Columbus County.

Drainage area.--15.3 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 26 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 780 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	April 1953	20.14	156	1957	July 2, 1957	20.55	293
1954	March 1954	19.68	73	1958	Apr. 17, 1958	20.70	367
1955	Sept. 20, 1955	23.19	1,570	1959	Mar. 6, 1959	21.72	830
1956	Mar. 16, 1956	20.54	290				

1095. Waccamaw River at Freeland, N. C.

Location--Lat 34°05'43", long 78°32'56", on left bank 150 ft downstream from New Britton Bridge on State Highway 130, 1 mile southwest of Freeland, Brunswick County, and 7 miles downstream from Juniper Creek.

Drainage area--706 sq mi.

Gage--Nonrecording July 25, 1939, to July 14, 1943; recording thereafter. Datum of gage is 15.52 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Auxiliary nonrecording gage at site 3.3 miles downstream Oct. 7, 1949, to July 14, 1952; auxiliary recording gage at same site thereafter.

Stage-discharge relation--Defined by current-meter measurements; subject to changes due to hurricane debris and subsequent channel clearing. Relation affected by slope at all stages.

Remarks--Considerable natural storage afforded by old lake bed and swamps. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 23-24, 1940	13.15	1,910	1950	July 13, 1950	14.25	2,800
1941	Mar. 17, 1941	13.14	1,860	1951	Apr. 12, 1951	11.86	1,280
1942	Mar. 14-16, 1942	14.4	3,090	1952	Apr. 3, 1952	12.92	1,670
1943	Sept. 27, 1943	13.38	2,050	1953	Mar. 15-19, 1953	14.2	2,450
1944	Mar. 13-14, 1944	14.91	3,720	1954	Apr. 10-13, 1954	13.0	1,780
1945	Sept. 23, 1945	15.49	5,600	1955	Sept. 25, 1955	16.63	10,200
1946	Aug. 27, 1946	15.24	4,840	1956	Feb. 16, 1956	13.35	1,780
1947	Sept. 28, 1947	15.15	4,570	1957	Mar. 17, 1957	13.16	2,060
1948	Feb. 14, 1948	15.92	7,500	1958	Apr. 20-21, 1958	14.25	3,170
1949	Dec. 3, 1948	15.43	5,440	1959	Mar. 10-11, 1959	16.1	8,390

a Occurred at different time than peak discharge.

1096.4. Wet Ash Swamp near Ash, N. C.

Location--Lat 34°02'17", long 78°30'13", at bridge on State Highway 130, 0.6 mile upstream from Flat Branch, and 2.2 miles east of Ash, Brunswick County.

Drainage area--19.7 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 860 cfs and extended above by logarithmic plotting.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 1953	19.74	255	1957	Sept. 25, 1957	19.16	114
1954	-	-	(a)	1958	Sept. 28, 1958	20.36	620
1955	Aug. 17, 1955	21.89	1,270	1959	Mar. 6, 1959	20.32	600
1956	May 7, 1956	19.48	185				

a Peak stage below gage; discharge less than 100 cfs.

1100.2. Mill Branch near Tabor City, N. C.

Location--Lat 34°11', long 78°48', at culvert on U.S. Highway 701, 2½ miles upstream from mouth and 4¼ miles northeast of Tabor City, Columbus County.

Drainage area--3.85 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 110 cfs and extended above on basis of culvert measurements at 319 and 575 cfs.

Remarks--Only annual peaks are shown.

WACCAMAW RIVER BASIN

Peak stages and discharges of Mill Branch near Tabor City, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	March 1953	20.61	74	1957	June 9, 1957	21.56	200
1954	-	-	(a)	1958	Jan. 25, 1958	22.03	315
1955	Sept. 20, 1955	21.48	185	1959	Mar. 7, 1959	23.2	575
1956	Mar. 16, 1956	20.90	102				

a Peak stage below gage; discharge less than 14 cfs.

1105. Waccamaw River near Longs, S. C.

Location.--Lat 33°54'45", long 78°42'55", near right bank on upstream side of bridge on State Highway 9, 500 ft downstream from Buck Creek and 2.1 miles southeast of Longs, Horry County.

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

Gage.--Nonrecording. Datum of gage is 5.28 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--8 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Mar. 16, 1955, and from crest-stage gage thereafter. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 8, 1951	a9.41	1,860	1956	Feb. 19, 1956	9.89	2,230
1952	Apr. 1-5, 1952	b10.05	2,520	1957	Mar. 15, 16, 1957	e10.38	3,780
1953	Mar. 15, 1953	11.50	6,360	1958	Apr. 18, 1958	12.46	7,540
1954	Apr. 9-15, 1954	c10.00	2,520	1959	Mar. 13, 1959	13.40	9,780
1955	Sept. 28-30, 1955	d13.82	10,300				

a Occurred on Apr. 25-27, 1951.

b Occurred on Apr. 2, 1952.

c Occurred on

Apr. 11, 1954.

d Occurred on Sept. 29, 1955.

e Occurred on Mar. 15, 1957.

1106.9. Waccamaw River at Conway, S. C.

Location.--Lat 33°50', long 79°03', at Conway, Horry County, near mouth of Kingston Lake.

Drainage area.--1,350 sq mi (determined by U.S. Weather Bureau).

Gage.--Nonrecording. Datum of gage is 0.65 ft below mean sea level (levels by U.S. Weather Bureau).

Stage-discharge relation.--Not defined.

Bankfull stage.--5 ft.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1895	Oct. 20, 1894	9.2	-	1902	Mar. 13, 1902	7.2	-
1896	Feb. 19-21, 1896	7.0	-	1903	Apr. 4, 5, 1903	6.9	-
1897	Mar. 7, 8, 1897	7.3	-	1904	Sept. 17, 1904	7.6	-
1898	Sept. 3, 4, 1898	4.9	-	1905	Mar. 2-4, 6, 7, 1905	6.8	-
1899	Mar. 1-3, 1899	8.6	-				
1900	May 4, 1900	6.9	-	1906	Feb. 22, 23, 1906	8.8	-
				1907	Aug. 25, 1907	6.9	-
1901	July 29, 30, 1901	8.7	-	1908	Sept. 7, 1908	10.2	-

Peak stages of Waccamaw River at Conway, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Oct. 31 to Nov. 5, 1908	6.9	-	1934	Oct. 6-8, 1933	2.9	-
1910	Mar. 10-12, 1910	6.9	-	1935	Sept. 23-25, 1935	7.1	-
1911	Oct. 21, 22, 1910	4.3	-	1936	Apr. 18, 1936	9.4	-
1912	Mar. 27, 1912	7.4	-	1937	Feb. 10-14, 1937	5.3	-
1913	Mar. 29, 30, 1913	7.4	-	1938	Apr. 23-26, 1938	4.7	-
1914	Mar. 8-10, 1914	7.9	-	1939	Mar. 12, 13, 1939	9.1	-
1915	Jan. 31, Feb. 2, 1915	8.6	-	1940	Feb. 24-26, 1940	4.9	-
1916	July 29 to Aug. 1, 1916	9.2	-	1941	Apr. 9-13, 1941	4.0	-
1917	July 25, 26, 1917	4.9	-	1942	Mar. 23, 1942	6.6	-
1918	May 1, 2, 1918	9.3	-	1943	Aug. 24, 25, 1943	7.3	-
1919	Aug. 4, 5, 1919	6.9	-	1944	Mar. 24-26, 30, 31, 1944	7.5	-
1920	Sept. 5, 6, 1920	5.0	-	1945	Sept. 29, 1945	11.3	-
1921	Feb. 22, 23, 1921	7.1	-	1946	Sept. 3, 4, 1946	7.6	-
1922	Mar. 20, 21, 1922	6.9	-	1947	Sept. 23, 30, 1947	6.0	-
1923	Mar. 31, 1923	5.5	-	1948	Feb. 24, 25, 1948	8.5	-
1924	July 15-17, 1924	9.0	-	1949	Dec. 10-13, 1948	8.3	-
1925	Oct. 9, 10, 1924	11.1	-	1950	July 31, 1950	6.0	-
1926	Feb. 20, 21, 1926	5.3	-	1951	Apr. 22, 1951	4.3	-
1927	Mar. 24, 25, 1927	3.0	-	1952	Mar. 20, 28, 1952	5.1	-
1928	Sept. 30, 1928	13.4	-	1953	Mar. 15, 16, 1953	6.9	-
1929	Mar. 15, 16, 1929	8.0	-	1954	Feb. 6, 7, 1954	4.8	-
1930	Oct. 15, 1929	6.6	-	1955	Sept. 22, 1955	9.0	-
1931	Jan. 6, 1931	4.5	-	1956	Oct. 2-5, 1955	8.7	-
1932	June 21, 1932	3.4	-	1957	Mar. 26, 27, 1957	4.8	-
1933	Sept. 8, 1933	8.4	-	1958	Apr. 19, 1958	8.3	-
				1959	Mar. 18, 19, 1959	8.4	-

PEE DEE RIVER BASIN

1110. Yadkin River at Patterson, N. C.

Location--Lat 35°59'29", long 81°33'30", on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mile upstream from Warrior Creek, half a mile south of Patterson, Caldwell County, and 2 miles downstream from Walnut Branch.

Drainage area--28.8 sq mi.

Gage--Recording. Datum of gage is 1,212.47 ft above mean sea level (unadjusted).

Stage-discharge relation--Defined by current-meter measurements below 1,300 cfs and extended above on basis of computation of peak flows over dam 1 mile upstream at 1,500, 4,930, and 16,200 cfs.

Remarks--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 13, 1940	12.70	16,200	1950	Oct. 6, 1949	3.69	1,020
	Aug. 30, 1940	4.28	1,770	1951	Dec. 7, 1950	-	1,940
1941	July 7, 1941	2.85	1,020	1952	Mar. 11, 1952	7.70	4,930
1942	Sept. 6, 1942	5.93	2,960	1953	Feb. 21, 1953	4.28	1,380
1943	July 12, 1943	3.08	1,160	1954	Jan. 22, 1954	3.59	974
1944	Sept. 30, 1944	-	(a)	1955	Apr. 14, 1955	3.09	734
1945	Sept. 17, 1945	3.73	1,510	1956	Apr. 16, 1956	2.60	538
1946	Jan. 7, 1946	3.38	1,330	1957	Apr. 5, 1957	6.30	3,130
1947	July 17, 1947	3.01	700		June 5, 1957	3.65	1,020
1948	Oct. 17, 1947	3.73	1,040	1958	Nov. 19, 1957	2.60	571
1949	Aug. 3, 1949	4.09	1,220	1959	Dec. 28, 1958	3.74	1,060
	Aug. 28, 1949	4.58	1,500		Sept. 30, 1959	4.85	1,910

a Unknown, occurred during period of no gage-height record.

1113.4. South Prong Lewis Fork Creek near North Wilkesboro, N. C.

Location.--Lat 36°11', long 81°22', at culvert on U.S. Highway 421, 10 miles upstream from North Prong, and 15 miles west of North Wilkesboro, Wilkes County.

Drainage area.--About 15 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Not defined.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 14, 1955	13.25		1957	Apr. 5, 1957	12.01	
1956	-	11.4		1958	Apr. 28, 1958	11.51	
				1959	Sept. 30, 1959	12.45	

1115. Reddies River at North Wilkesboro, N. C.

Location.--Lat 36°10', long 81°10', on left bank 400 ft upstream from highway bridge, 1 $\frac{1}{4}$ miles northwest of North Wilkesboro, Wilkes County, 1 $\frac{1}{4}$ miles upstream from North Wilkesboro municipal dam, and 2 miles upstream from mouth.

Drainage area.--93.9 sq mi.

Gage.--Recording. Datum of gage is 978.62 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of computation of peak flows over dam 1 $\frac{1}{4}$ miles downstream at 5,600, 7,460 and 27,000 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	22.02	27,000	1949	Aug. 17, 1949	6.87	2,440
	Aug. 30, 1940	7.58	3,540		Aug. 28, 1949	11.50	5,600
1941	July 7, 1941	6.06	2,300	1950	May 12, 1950	6.46	2,210
	July 19, 1941	11.06	7,330				
	July 23, 1941	6.66	2,760	1951	Dec. 7, 1950	10.23	4,690
1942	May 22, 1942	6.69	2,760	1952	Feb. 3, 1952	6.15	2,040
	June 12, 1942	8.72	4,600		Mar. 11, 1952	12.52	7,400
	Sept. 6, 1942	11.05	7,200	1953	Feb. 21, 1953	7.29	2,500
1943	July 9, 1943	7.43	a3,360	1954	Jan. 22, 1954	6.60	2,130
1944	Sept. 2, 1944	6.90	2,920		Feb. 21, 1954	7.15	2,440
	Sept. 30, 1944	8.57	4,500		Aug. 22, 1954	6.95	2,330
1945	Oct. 20, 1944	5.96	2,240	1955	Apr. 14, 1955	8.00	3,270
	Sept. 15, 1945	9.89	5,890				
	Sept. 17, 1945	12.20	8,780	1956	Apr. 16, 1956	6.32	2,150
1946	Jan. 7, 1946	5.66	2,030	1957	Apr. 5, 1957	9.26	4,290
1947	June 14, 1947	7.63	3,540	1958	Mar. 31, 1958	5.64	1,730
1948	Oct. 9, 1947	6.24	2,370	1959	Dec. 28, 1958	8.25	3,000
	Oct. 17, 1947	6.57	2,680		Sept. 1, 1959	6.47	2,080
	Mar. 27, 1948	6.16	2,370		Sept. 30, 1959	9.60	4,040
1949	July 16, 1949	8.46	3,500				

a Annual peak only.

1120. Yadkin River at Wilkesboro, N. C.
 (Published as "at North Wilkesboro" prior to Oct. 1, 1928)

Location.--Lat 36°09', long 81°09', on right bank 150 ft upstream from bridge on U.S. Highway 421 between North Wilkesboro and Wilkesboro, 150 ft downstream from Reddies River, and half a mile northeast of Wilkesboro, Wilkes County.

Drainage area.--493 sq mi.

Gage.--Nonrecording prior to Jan. 10, 1930; recording thereafter. At site 1 1/4 miles downstream at different datums Apr. 10, 1903, to June 30, 1909, and Oct. 17, 1920, to Apr. 10, 1929. Datum of gage is 942.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above Apr. 10, 1903, to June 30, 1909. Defined by current-meter measurements below 10,000 cfs and extended above Oct. 17, 1920, to Apr. 10, 1929. Defined at present site by current-meter measurements below 20,000 cfs and extended above on basis of logarithmic plotting and slope-area measurement at 160,000 cfs. Backwater from return flow from cverbank storage may have some effect during periods of extremely high flow.

Remarks.--Only annual peaks are shown prior to 1929. Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 18, 1904	9.8	9,250	1940	Aug. 14, 1940	37.6	160,000
1905	July 13, 1905	14.5	16,000		Aug. 31, 1940	14.58	11,500
1906	Aug. 29, 1906	20.8	26,800	1941	July 19, 1941	13.39	10,200
1907	Nov. 19, 1906	19.5	24,200	1942	May 22, 1942	12.50	9,200
1908	Feb. 15, 1908	14.0	14,700		Sept. 6, 1942	16.04	13,200
1909	May 21, 1909	18.7	22,600	1943	Dec. 30, 1942	11.68	8,340
1916	July 1916	a34.5	116,000		Apr. 19, 1943	12.83	9,530
1921	Dec. 14, 1920	13.0	10,700	1944	Sept. 30, 1944	14.77	11,800
1922	July 15, 1922	13.45	11,300	1945	Oct. 20, 1944	13.26	8,400
1923	Mar. 16, 1923	15.13	13,600		Sept. 18, 1945	22.45	23,200
1924	Jan. 16, 1924	15.2	13,700	1946	Jan. 8, 1946	13.42	9,350
1925	Dec. 8, 1924	14.2	12,300	1947	June 14, 1947	17.55	14,200
1926	Jan. 18, 1926	14.0	12,000	1948	Oct. 9, 1947	13.26	9,250
1927	Nov. 16, 1926	7.15	4,020	1949	Aug. 16, 1949	13.84	8,930
1928	Aug. 16, 1928	20.84	22,000		Aug. 29, 1949	17.09	12,800
1929	Feb. 28, 1929	12.0	10,300	1950	May 15, 1950	9.85	5,770
1930	Oct. 2, 1929	24.0	29,000	1951	Dec. 7, 1950	16.77	12,300
1931	Jan. 5, 1931	9.09	6,030	1952	Feb. 3, 1952	13.03	8,250
1932	Jan. 1, 1932	10.66	7,500		Mar. 11, 1952	17.12	12,800
1933	Oct. 17, 1932	20.94	19,200	1953	Feb. 21, 1953	15.10	11,300
	May 13, 1933	13.95	10,900	1954	Jan. 22, 1954	15.49	11,800
1934	Mar. 28, 1934	12.94	9,580		Feb. 21, 1954	14.24	10,200
	Apr. 10, 1934	13.72	10,600	1955	Apr. 14, 1955	14.20	10,200
1935	Nov. 29, 1934	13.95	11,000	1956	Apr. 16, 1956	11.76	7,650
	Jan. 9, 1935	13.78	10,800	1957	Apr. 5, 1957	18.50	15,500
	Jan. 23, 1935	11.48	8,320		Sept. 17, 1957	13.07	9,050
1936	Jan. 19, 1936	13.84	10,800	1958	Mar. 31, 1958	10.60	6,640
	Apr. 6, 1936	13.56	10,600	1959	Dec. 29, 1958	15.61	11,700
1937	Oct. 9, 1936	12.5	9,380		Sept. 30, 1959	18.30	15,200
	Oct. 16, 1936	19.17	17,100				
	Dec. 31, 1936	11.48	8,320				
	Jan. 19, 1937	12.10	8,960				
1938	Oct. 19, 1937	21.0	19,300				
1939	Feb. 11, 1939	12.17	9,060				
	Aug. 18, 1939	14.48	11,600				

a From floodmark, present site and datum.

1124.1. Fisher River near Bottom, N. C.

Location.--Lat 36°27', long 80°46', at bridge 3 miles south of Bottom, Surry County, and 5 miles upstream from Little Fisher River.

Drainage area.--44.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 1954	15.78	2,560	1957	Apr. 5, 1957	14.30	1,690
1955	-	-	(a)	1958	August 1958	12.72	1,320
1956	July 1956	13.73	1,550	1959	Aug. 31, 1959	15.92	2,750

a Peak stage below gage; discharge less than 1,390 cfs.

1125. Fisher River near Dobson, N. C.

Location.--Lat 36°23', long 80°40', at Turkey Ford bridge on Dobson-Ararat road, $1\frac{1}{2}$ miles upstream from Chapman Creek and 3 miles east of Dobson, Surry County.

Drainage area.--109 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,020 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of records for Ararat River.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	June 5, 1922	6.05	3,540	1928	Sept. 6, 1928	10.1	6,700
1923	Mar. 16, 1923	10.1	6,700	1929	Feb. 28, 1929	6.3	3,720
1924	Jan. 16, 1924	9.9	6,540	1930	Oct. 2, 1929	12.1	8,300
1925	Dec. 8, 1924	7.1	4,320	1931	Apr. 1, 1931	6.8	4,100
1926	Jan. 18, 1926	5.6	3,200	1932	Jan. 1, 1932	3.4	1,640
1927	Nov. 16, 1926	5.89	3,420	1933	Oct. 17, 1932	11.2	7,580

1130. Fisher River near Copeland, N. C.

Location.--Lat 36°20', long 80°40', on left bank 500 ft upstream from bridge on State Highway 268, 1 mile upstream from Cody Creek, and 2 miles northwest of Copeland, Surry County.

Drainage area.--121 sq mi.

Gage.--Nonrecording prior to Sept. 6, 1936; recording thereafter. Altitude of gage is 913 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 5,800 cfs and extended above on basis of slope-area measurement at 27,300 cfs.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1932	Jan. 1, 1932	5.70	2,060	1944	July 15, 1944	8.50	4,070	
1933	Oct. 5, 1932	7.77	3,920	1945	Sept.30, 1944	8.28	3,890	
	Oct. 17, 1932	12.4	9,040		Oct. 20, 1944	10.10	5,760	
	Nov. 1, 1932	10.8	7,120		July 29, 1945	7.74	3,350	
1934	Mar. 28, 1934	7.18	3,350	1946	Sept.18, 1945	7.88	3,530	
	Aug. 18, 1934	7.10	3,260		Mar. 15, 1946	6.2	2,160	
	Sept.16, 1934	7.12	3,260		1947	June 14, 1947	15.55	16,400
1935	Oct. 6, 1934	11.15	7,600	1948	July 17, 1947	7.47	3,180	
	Nov. 29, 1934	10.3	6,560		Oct. 9, 1947	8.16	3,800	
	Dec. 1, 1934	9.7	5,900	Oct. 18, 1947	6.42	2,300		
	Jan. 23, 1935	6.65	2,800	Apr. 1, 1948	7.74	3,350		
	July 25, 1935	7.75	3,920	1949	Dec. 3, 1948	6.68	2,540	
	Sept. 5, 1935	9.85	6,010		Mar. 23, 1949	7.49	3,180	
1936	Oct. 29, 1935	6.45	2,640		June 17, 1949	10.30	6,000	
	Jan. 3, 1936	8.25	4,320		Aug. 28, 1949	7.73	3,350	
	Jan. 6, 1936	5.95	2,300		Aug. 31, 1949	6.45	2,300	
	Jan. 19, 1936	10.3	6,560		1950	May 15, 1950	9.13	4,660
	Feb. 14, 1936	6.22	2,460	May 29, 1950		7.43	3,100	
	Mar. 17, 1936	6.94	3,070	May 31, 1950		9.28	4,870	
	Apr. 6, 1936	10.5	6,780	1951	Dec. 7, 1950	8.38	3,980	
	Sept.30, 1936	8.98	5,150		1952	Dec. 4, 1951	7.31	3,020
1937	Oct. 16, 1936	9.80	6,010			Dec. 21, 1951	7.11	2,860
	Jan. 3, 1937	5.88	2,220			Mar. 11, 1952	7.38	3,100
	Jan. 19, 1937	7.33	3,440	Mar. 23, 1952		6.99	2,780	
	Aug. 13, 1937	6.72	2,890	1953	Feb. 21, 1953	8.00	3,620	
	Aug. 25, 1937	9.30	5,460		Mar. 24, 1953	10.35	6,120	
1938	Oct. 5, 1937	8.76	4,940		1954	Jan. 22, 1954	7.57	3,260
	Oct. 19, 1937	13.59	10,500	Feb. 21, 1954		8.24	3,800	
	May 29, 1938	6.62	2,730	Mar. 1, 1954		7.53	3,180	
	July 23, 1938	6.12	2,300	1955	Apr. 14, 1955	7.20	2,940	
1939	Feb. 11, 1939	8.08	3,910		June 11, 1955	7.67	3,350	
	July 9, 1939	6.28	2,580	1956	Apr. 16, 1956	7.68	3,350	
	Aug. 14, 1939	6.85	2,780		Sept.27, 1956	8.50	4,070	
	Aug. 18, 1939	12.36	8,160	1957	Apr. 5, 1957	8.70	4,320	
1940	Apr. 20, 1940	6.26	2,390		Sept. 17, 1957	9.39	5,000	
	May 30, 1940	6.18	2,310		Sept.30, 1957	6.44	2,410	
	Aug. 14, 1940	18.4	27,300	1958	Nov. 25, 1957	6.42	2,410	
	Aug. 31, 1940	7.8	3,700		Mar. 31, 1958	6.38	2,410	
1941	Dec. 28, 1940	5.47	1,740		May 6, 1958	6.24	2,250	
	1942	May 21, 1942	8.07		3,600	Aug. 3, 1958	9.57	5,200
July 1, 1942		6.40	2,230	Aug. 25, 1958	7.44	3,210		
Sept. 6, 1942		8.7	4,200	1959	Dec. 28, 1958	8.98	4,600	
1943	Jan. 28, 1943	7.28	2,890		Aug. 31, 1959	8.38	4,050	
	Apr. 19, 1943	7.00	2,780		Sept.30, 1959	9.36	5,000	
	June 9, 1943	8.00	3,620					
	July 5, 1943	9.90	5,530					
	July 8, 1943	6.75	2,620					
	July 10, 1943	6.71	2,540					
Aug. 13, 1943	6.63	2,460						

1140.1. Ararat River at dam, near Pilot Mountain, N. C.
(Formerly published as Ararat River near Pilot Mountain)

Location.--Lat 36°22', long 80°32', at dam, 1½ miles upstream from Pilot Creek and 4½ miles southwest of Pilot Mountain, Surry County.

Drainage area.--287 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 780 ft (from topographic map).

Stage-discharge relation.--Defined by computation of peak flows over dam at 8,240 and 29,300 cfs and extended above by logarithmic plotting.

Historical data.--The flood of June 14, 1947, the highest known since construction of powerplant in 1904, was affected by dam failures upstream.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	October 1937	a105.1	29,000	1954	January 1954	100.60	6,150
				1955	Apr. 14, 1955	101.29	8,500
1940	Aug. 14, 1940	a104.3	23,900	1956	September 1956	101.29	8,500
1947	June 14, 1947	a106.5	40,000	1957	Sept. 30, 1957	102.57	14,100
				1958	Nov. 18, 1957	100.44	5,600
1953	Mar. 24, 1953	a101.2	8,240	1959	Sept. 30, 1959	101.10	7,900

a From floodmarks on powerplant wall.

1155. Forbush Creek near Yadkinville, N. C.

Location.--Lat 36°08', long 80°33', on left bank 900 ft upstream from highway bridge, three-quarters of a mile north of Forbush Church, 2¼ miles upstream from Logan Creek, 3½ miles upstream from mouth, and 6 miles east of Yadkinville, Yadkin County.

Drainage area.--21.7 sq mi.

Gage.--Recording. Altitude of gage is 728 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above by velocity-area study and by slope-area measurement at 2,060 cfs.

Remarks.--Base for partial-duration series, 570 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 30, 1940	6.86	702	1951	Feb. 7, 1951	6.42	668
	July 17, 1940	7.74	806		Apr. 8, 1951	6.00	613
	Aug. 14, 1940	7.84	819	1952	Mar. 4, 1952	6.17	640
1941	June 28, 1941	6.08	598		Mar. 11, 1952	6.23	640
					Aug. 21, 1952	7.37	818
1942	Sept. 7, 1942	7.34	754	1953	Feb. 21, 1953	6.93	738
1943	July 7, 1943	6.29	624		Mar. 23, 1953	8.76	1,220
					June 28, 1953	7.36	818
1944	Apr. 11, 1944	6.61	663	Sept. 6, 1953	6.75	724	
	July 15, 1944	9.22	1,340	1954	Jan. 22, 1954	9.78	1,660
	Sept. 30, 1944	11.02	2,450				
1945	Oct. 20, 1944	6.05	585	1955	Oct. 15, 1954	5.77	570
	Mar. 27, 1945	5.95	585		Apr. 15, 1955	7.96	925
	Sept. 17, 1945	7.90	882	1956	Apr. 16, 1956	7.53	826
1946	Jan. 7, 1946	8.42	1,020		Sept. 27, 1956	8.82	1,170
1947	Jan. 20, 1947	5.84	559	1957	Jan. 31, 1957	6.89	954
1948	Mar. 31, 1948	6.22	611		Apr. 5, 1957	6.85	928
					June 22, 1957	10.38	2,060
1949	Nov. 28, 1948	6.93	738		Sept. 17, 1957	7.94	1,220
1950	May 15, 1950	8.52	1,120	1958	Oct. 17, 1957	5.70	675
					Nov. 19, 1957	8.73	1,460

Peak stages and discharges of Forbush Creek near Yadkinville, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Nov. 25, 1957	5.67	675	1959	Dec. 28, 1958	7.44	1,080
	Jan. 25, 1958	5.61	656		Aug. 1, 1959	5.34	599
	Mar. 31, 1958	5.22	580		Aug. 29, 1959	5.34	599
	Apr. 6, 1958	6.99	980		Sept. 1, 1959	10.34	2,020
	Apr. 22, 1958	6.82	928		Sept. 7, 1959	6.82	928
	Apr. 28, 1958	10.61	1,980				
	Aug. 3, 1958	11.08	2,060				

1155.2. Logan Creek near Smithtown, N. C.

Location.--Lat 36°13', long 80°34', at culvert on State Highway 67, 1 mile south of Smithtown, Yadkin County, and 9½ miles upstream from Spillman Creek.

Drainage area.--1.08 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by culvert measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	20.98	245	1957	June 22, 1957	23.08	496
1955	Apr. 14, 1955	20.79	220	1958	Aug. 3, 1958	21.85	349
1956	Apr. 16, 1956	20.96	243	1959	Dec. 28, 1958	19.69	103

1155.4. South Deep Creek near Yadkinville, N. C.

Location.--Lat 36°08', long 80°46', at bridge 6¼ miles west of Yadkinville, Yadkin County, and 15½ miles upstream from North Deep Creek.

Drainage area.--19.5 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs and extended above on basis of computation of flow-over-dam measurement at 2,750 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	22.68	1,870	1957	July 16, 1957	23.19	2,750
1955	April 1955	21.57	680	1958	Apr. 28, 1958	23.29	2,920
1956	Sept. 27, 1956	21.96	1,000	1959	Sept. 2, 1959	22.13	1,180

PEE DEE RIVER BASIN

1158.4. Kerners Mill Creek near Kernersville, N. C.
(Published as "Salem Creek" prior to Oct. 1, 1957, and as "Fishers Branch"
Oct. 1, 1957, to Sept. 30, 1959)

Location--Lat 36°06'20", long 80°06'20", at culvert on State Highway 150,
2 miles upstream from mouth, and 2 miles southwest of Kernersville, Forsyth
County.

Drainage area--2.21 sq mi.

Gage--Crest-stage gage.

Stage-discharge relation--Defined by current-meter measurements below 250 cfs
and extended above by logarithmic plotting.

Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 1954	17.90	152	1957	January 1957	19.17	280
1955	Oct. 15, 1954	20.24	550	1958	April 1958	19.12	270
1956	September 1956	19.13	270	1959	July 21, 1959	17.43	133

1165. Yadkin River at Yadkin College, N. C.

Location--Lat 35°51'24", long 80°23'10", near left bank on downstream end of
pier of bridge on U.S. Highway 64, 1½ miles south of Yadkin College, David-
son County, and 6¼ miles downstream from Reedy Creek.

Drainage area--2,280 sq mi, approximately.

Gage--Recording. Datum of gage is 638.65 ft above mean sea level (levels by
Corps of Engineers).

Stage-discharge relation--Defined by current-meter measurements. Backwater
from return flow from overbank storage may have some effect at extremely
high stages.

Historical data--The maximum stage known is that of July 1916.

Remarks--Base for partial-duration series, 18,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	36.3	a94,300	1937	Oct. 1, 1936	14.66	19,600
1928	Aug. 18, 1928	25.5	50,200		Oct. 18, 1936	21.48	35,700
1929	Mar. 1, 1929	17.42	24,600		Jan. 1, 1937	15.19	20,500
1930	Oct. 3, 1929	29.8	67,800		Jan. 4, 1937	21.28	35,000
1931	Apr. 2, 1931	12.78	16,600		Jan. 20, 1937	20.47	32,600
1932	Jan. 9, 1932	12.43	16,000		Aug. 26, 1937	14.18	18,700
1933	Oct. 18, 1932	25.96	52,200	1938	Oct. 21, 1937	27.50	58,400
	Nov. 2, 1932	20.52	32,200	1939	Feb. 12, 1939	15.26	20,700
1934	Mar. 4, 1934	16.03	22,000		Aug. 19, 1939	23.44	36,200
	Mar. 28, 1934	16.18	22,400	1940	Aug. 15, 1940	33.75	80,200
	Apr. 10, 1934	14.05	18,600	1941	July 17, 1941	15.92	18,000
1935	Dec. 2, 1934	18.78	27,900	1942	May 23, 1942	17.86	26,000
	Jan. 24, 1935	14.58	18,800		Sept. 8, 1942	18.78	28,100
	Mar. 13, 1935	15.16	20,000	1943	Dec. 31, 1942	14.68	19,600
1936	Jan. 4, 1936	19.63	30,200		Jan. 29, 1943	17.91	26,000
	Jan. 20, 1936	24.92	47,900		Apr. 20, 1943	15.98	22,000
	Feb. 15, 1936	16.31	22,600	1944	Mar. 30, 1944	15.83	20,600
	Mar. 18, 1936	17.70	25,500	1945	Oct. 1, 1944	22.80	34,000
	Apr. 7, 1936	20.51	32,600		Oct. 21, 1944	17.97	25,200
					Sept. 19, 1945	26.17	46,800

a Annual peak only.

Peak stages and discharges of Yadkin River at Yadkin College, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 9, 1946	17.66	24,500	1953	Feb. 22, 1953 Mar. 25, 1953	19.2C 21.93	28,000 35,000
1947	Jan. 21, 1947 June 16, 1947	16.42 25.80	21,800 46,000	1954	Jan. 23, 1954 Feb. 22, 1954	22.2C 15.12	35,900 19,300
1948	Oct. 11, 1947 Apr. 2, 1948	16.00 17.50	18,100 20,800	1955	Feb. 7, 1955 Apr. 15, 1955	15.53 20.38	20,000 31,000
1949	Nov. 29, 1948 Dec. 4, 1948 May 1, 1949 June 18, 1949 Aug. 18, 1949 Aug. 30, 1949	16.70 15.56 14.62 15.94 15.91 17.76	22,400 20,200 18,400 20,800 20,800 24,800	1956	Apr. 17, 1956 Sept. 28, 1956	17.0 20.25	23,000 30,500
1950	May 16, 1950	17.02	23,000	1957	Feb. 1, 1957 Apr. 7, 1957 Sept. 18, 1957	15.28 22.00 19.93	19,200 33,400 28,300
1951	Dec. 9, 1950 Feb. 8, 1951	16.17 14.55	21,400 18,400	1958	Nov. 20, 1957 Nov. 26, 1957 Apr. 1, 1958 Apr. 29, 1958 Aug. 4, 1958	18.14 18.05 15.62 20.95 14.90	24,400 24,200 19,700 30,800 18,500
1952	Dec. 22, 1951 Feb. 4, 1952 Mar. 12, 1952 Mar. 25, 1952	16.95 15.30 17.41 18.80	23,000 19,700 23,900 27,000	1959	Dec. 30, 1958 Sept. 7, 1959	20.13 14.61	28,700 18,000

1174.1. McClelland Creek near Statesville, N. C. •
(Published as "Patterson Creek tributary" prior to Oct. 1, 1957)

Location.--Lat 35°57', long 80°57', at culvert on State Highway 115, 2½ miles upstream from mouth and 12 miles northwest of Statesville, Iredell County.

Drainage area.--1.6 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs and extended on basis of culvert measurement at 435 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	18.16	262	1957	Sept. 7, 1957	20.10	435
1955	June 11, 1955	17.81	226	1958	April 1958	18.06	250
1956	Sept. 27, 1956	17.81	226	1959	Sept. 30, 1959	17.17	156

1175. Rocky Creek at Turnersburg, N. C.
(Published as "Rocky River" prior to Oct. 1, 1956)

Location.--Lat 35°54', long 80°48', on right bank 1,000 ft downstream from bridge on U.S. Highway 21 at Turnersburg, Iredell County, 1 mile downstream from Mud Creek, and 1½ miles upstream from mouth.

Drainage area.--102 sq mi.

Gage.--Recording. Datum of gage is 724.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended on basis of computation of peak flow over dam at 6,080 cfs.

Historical data.--A stage of about 18 ft was reached by flood sometime during the years 1936-38, from information by local resident.

Remarks.--Base for partial-duration series, 1,700 cfs.

Peak stages and discharges of Rocky Creek at Turnersburg, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	8.05	a2,840	1950	May 15, 1950	6.90	2,320
1941	July 17, 1941	9.36	3,800	1951	Dec. 7, 1950	4.78	1,110
1942	Sept. 6, 1942	7.85	2,700	1952	Mar. 4, 1952	6.19	1,890
1943	Dec. 29, 1942	6.73	2,010	1952	Mar. 11, 1952	7.07	2,340
	Jan. 28, 1943	6.20	1,810		1953	Mar. 24, 1953	6.38
1944	Sept. 30, 1944	8.60	3,430	1954	Jan. 22, 1954	13.69	6,080
1945	Oct. 21, 1944	6.53	2,080	1955	Apr. 14, 1955	5.15	1,370
	Sept. 18, 1945	12.08	5,120	1956	Sept. 27, 1956	10.95	4,480
1946	Jan. 7, 1946	8.80	3,570	1957	Sept. 17, 1957	11.68	4,620
	Feb. 10, 1946	6.31	1,970	1958	Nov. 19, 1957	7.53	2,520
1947	June 15, 1947	7.59	2,600	1958	Apr. 28, 1958	11.47	4,520
1948	Mar. 21, 1948	6.07	1,860		1959	Dec. 29, 1958	6.65	2,070
1949	Nov. 29, 1948	6.58	2,140	1959	Sept. 7, 1959	6.55	2,070
	Aug. 31, 1949	6.68	2,200				

a Annual peak only.

1180. South Yadkin River near Mocksville, N. C.

Location.--Lat 35°51', long 80°40', on right bank at downstream side of highway bridge, 1 mile upstream from Little Creek, 4 miles downstream from Fifth Creek, 4½ miles upstream from Hunting Creek, and 6½ miles southwest of Mocksville, Davie County.

Drainage area.--313 sq mi.

Gage.--Recording. Altitude of gage is 660 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--The maximum stage known is that of Oct. 3, 1929.

Remarks.--Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 3, 1929	a22.6	-	1950	May 14, 1950	9.12	2,760
1939	Mar. 1, 1939	9.33	3,110	1951	Apr. 9, 1951	6.59	1,660
1940	Aug. 15, 1940	12.34	4,600	1952	Mar. 5, 1952	9.99	3,150
1941	July 18, 1941	10.86	3,900	1952	Mar. 12, 1952	10.00	3,150
					Mar. 24, 1952	9.41	2,800
1942	Sept. 7, 1942	9.85	3,390	1953	Mar. 23, 1953	10.48	3,450
1943	Dec. 31, 1942	10.63	3,890	1954	Jan. 23, 1954	16.73	9,240
	Jan. 30, 1943	11.05	4,150	1955	Apr. 15, 1955	9.36	2,900
1944	Mar. 29, 1944	7.60	2,230	1956	Sept. 28, 1956	13.53	5,760
1945	Oct. 1, 1944	11.93	4,780	1957	Feb. 2, 1957	10.57	3,460
	Sept. 19, 1945	16.02	8,000	1957	Sept. 18, 1957	14.26	6,550
1946	Jan. 7 or 8, 1946	11.62	4,570	1958	Nov. 20, 1957	9.82	2,960
	Feb. 11, 1946	9.38	3,160	1958	Nov. 27, 1957	9.32	2,710
1947	June 16, 1947	9.45	2,750	1959	Apr. 29, 1958	14.50	6,750
1948	Apr. 1, 1948	8.65	2,710		1959	Dec. 30, 1958	9.40	2,750
1949	Nov. 30, 1948	9.48	2,950	1959	Sept. 8, 1959	10.00	3,080

a From floodmark established by local resident; annual peak only.

1185. Hunting Creek near Harmony, N. C.

Location.--Lat 36°00', long 80°44', on right bank at downstream side of highway bridge, three-quarters of a mile downstream from Kennedy Creek, 1 mile east of Houstonville, Iredell County, 2 miles downstream from U.S. Highway 21, and 3½ miles northeast of Harmony.

Drainage area.--153 sq mi.

Gage.--Recording. Altitude of gage is 731 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 21, 1951	11.18	2,730	1957	Apr. 5, 1957	10.52	2,450
	Feb. 4, 1952	10.10	2,290		June 22, 1957	9.61	2,250
	Mar. 11, 1952	13.25	3,570		Sept. 17, 1957	15.78	4,690
1953	Feb. 21, 1953	12.90	3,430	1958	Nov. 19, 1957	12.82	3,470
	Mar. 24, 1953	13.30	3,620		Nov. 25, 1957	9.75	2,340
1954	Jan. 22, 1954	18.30	6,110		Mar. 31, 1958	9.67	2,520
	Mar. 1, 1954	9.71	2,140		Apr. 6, 1958	9.15	2,130
1955	Feb. 7, 1955	10.67	2,530	Apr. 28, 1958	18.60	6,210	
	Apr. 15, 1955	10.10	2,290	1959	Dec. 29, 1958	15.03	4,400
1956	Apr. 16, 1956	12.67	3,340		Aug. 29, 1959	9.07	2,100
	Sept. 27, 1956	15.85	4,810		Sept. 1, 1959	9.34	2,170
					Sept. 7, 1959	10.57	2,620
				Sept. 30, 1959	15.04	4,400	

1190. South Yadkin River at Coolee, N. C.

Location.--Lat 35°48', long 80°34', on left bank 150 ft downstream from tail-race of Erwin Cotton Mills at Coolee, Davie County, 550 ft upstream from bridge on State Highway 801, 2¼ miles downstream from Bear Creek, and 2½ miles upstream from Third Creek.

Drainage area.--569 sq mi.

Gage.--Recording. Datum of gage is 624.57 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 14,100 cfs and extended above, except discharge shown for 1930 flood, which is from rating curve extended above 7,500 cfs on basis of computation of peak flow over dam half a mile upstream. Relation affected by variable backwater from tributary inflow and from High Rock Lake. Peak discharges are subject to considerable error.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 16, 1916	27.2	-	1943	Jan. 30, 1943	16.34	6,070
1928	Aug. 17, 1928	24.4	12,700	1944	Mar. 30, 1944	13.33	4,720
1929	Mar. 1, 1929	15.45	7,080	1945	Sept. 19, 1945	25.57	10,900
1930	Oct. 3, 1929	32.25	24,800	1946	Jan. 9, 1946	17.73	6,800
1931	Apr. 2, 1931	11.34	4,560	1947	Jan. 21, 1947	14.23	5,140
1932	Jan. 10, 1932	13.68	4,900	1948	Apr. 2, 1948	15.07	5,480
1933	Oct. 18, 1932	25.83	16,200	1949	Nov. 30, 1948	15.95	5,930
1934	Mar. 4, 1934	14.75	6,630	1950	May 16, 1950	12.53	4,440
1935	Dec. 2, 1934	13.75	5,130	1951	Apr. 9, 1951	9.39	3,210
1936	Jan. 20, 1936	22.39	9,220	1952	Mar. 25, 1952	16.63	5,780
1937	Oct. 18, 1936	22.34	9,160	1953	Jan. 24, 1953	18.20	6,450
1938	Oct. 21, 1937	22.50	9,280	1954	Jan. 24, 1954	24.10	15,200
1939	Mar. 1, 1939	16.10	5,980	1955	Apr. 15, 1955	15.23	5,380
1940	Aug. 16, 1940	20.62	8,230	1956	Sept. 28, 1956	21.37	9,100
1941	July 18, 1941	14.67	5,350	1957	Sept. 18, 1957	20.65	9,610
1942	Sept. 8, 1942	17.54	6,650	1958	Apr. 29, 1958	22.67	12,500
				1959	Sept. 8, 1959	17.53	6,560

^a From Floodmark in Erwin Cotton Mill.

1205. Third Creek at Cleveland, N. C.

Location.--Lat 35°45', long 80°41', on left bank 200 ft downstream from highway bridge, three-quarters of a mile north of Cleveland, Rowan County, and 7 miles upstream from Fourth Creek.

Drainage area.--87.4 sq mi.

Gage.--Recording. Datum of gage is 684.76 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements and logarithmic extensions. Relation subject to shifts due to channel improvements at various times since 1916. Banks cleared of vegetation from point 4 miles below gage to headwaters during period 1955-58, resulting in large silt in relation in April 1955.

Historical data.--Maximum stage known is that of July 1916.

Remarks.--Peak flows affected by seven flood-detention reservoirs (combined capacity, 2,900 acre-ft) put in operation during the period 1954-59. Base for partial-duration series, 1,050 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	a22.5	-	1948	Apr. 1, 1948	9.70	1,080
1940	Aug. 14, 1940	8.91	b1,380	1949	Nov. 29, 1948	9.91	1,120
1941	July 17, 1941	7.49	1,000	1950	May 15, 1950	8.27	932
1942	Feb. 17, 1942	9.02	1,420	1951	Feb.7, July 29, 1951	6.9	699
	Mar. 9, 1942	8.20	1,200				
	May 22, 1942	7.86	1,120				
	Aug. 17, 1942	8.75	1,370	1952	Mar. 5, 1952 Mar. 25, 1952	13.26 11.08	1,920 1,300
Sept. 7, 1942	8.06	1,180					
1943	Jan. 19, 1943	8.08	1,180	1953	Mar. 25, 1953	12.27	1,620
	Jan. 29, 1943	8.50	1,280				
	Feb. 6, 1943	7.56	1,050	1954	Jan. 24, 1954	14.28	b2,260
	June 12, 1943	8.35	1,260				
	July 10, 1943	9.06	1,450				
	Aug. 29, 1943	7.67	1,080				
1944	Mar. 30, 1944	8.52	1,070	1955	Apr. 15, 1955	9.29	b959
	Sept. 30, 1944	15.31	2,890	1956	Sept. 27, 1956	9.37	b1,460
1945	Sept. 19, 1945	15.76	b3,080	1957	Feb. 1, 1957	10.94	b2,070
1946	Jan. 8, 1946	8.82	1,130	1958	Apr. 29, 1958	10.46	b1,900
	Feb. 11, 1946	11.10	1,650				
1947	Jan. 20, 1947	9.60	1,060	1959	Dec. 28-29, 1958	9.0	b1,380

a From floodmark witnessed by local resident.

b Annual peak only.

1208.2. Deal Branch near Salisbury, N. C.

Location.--Lat 35°44'40", long 80°30'25", at culvert on U.S. Highway 601, $3\frac{1}{4}$ miles upstream from mouth and $3\frac{1}{4}$ miles north of Salisbury, Rowan County.

Drainage area.--3.88 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs and extended on basis of culvert measurements at 565, 616, and 1,980 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 22, 1954	19.02	270	1957	February 1957	21.08	790
1955	Oct. 15, 1954	20.75	690	1958	November 1957	25.10	1,980
				1959	July 28, 1959	21.20	820
1956	July 1956	20.85	720				

1210. Yadkin River near Salisbury, N. C.

Location.--Lat 35°43'30", long 80°35'50", at old highway bridge known as Piedmont toll bridge, 1,600 ft upstream from Southern Railway bridge, 4 miles downstream from South Yadkin River, 6 miles northeast of Salisbury, Rowan County, and at mile 267.

Drainage area.--3,470 sq mi, approximately.

Gage.--Nonrecording. At Southern Railroad bridge 1,600 ft downstream at different datum Sept. 24, 1895, to May 31, 1900, and Apr. 15, 1903, to Dec. 31, 1905. Altitude of gage is 610 ft (from topographic map and river profile).

Stage-discharge relation.--Defined by current-meter measurements at Southern Railway bridge site. Defined by current-meter measurements below 92,000 cfs and extended above by logarithmic plotting at present site.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	July 10, 1896	15.00	80,000	1913	Mar. 16, 1913	15.4	77,200
1897	Feb. 7, 1897	11.10	50,000	1914	Jan. 4, 1914	7.8	25,300
1898	Sept. 24, 1898	15.2	79,300	1915	Jan. 8, 1915	13.0	56,000
1899	Mar. 20, 1899	18.8	115,000	1916	July 18, 1916	23.8	121,000
1900	Apr. 19, 1900	11.8	54,900	1917	Mar. 5, 1917	11.2	45,800
1901	Apr. 21, 1901	17.6	82,600	1918	Apr. 22, 1918	7.8	25,700
1902	Dec. 30, 1901	19.7	95,200	1919	July 20, 1919	16.8	80,000
1903	Mar. 24, 1903	16.6	76,600	1920	Apr. 3, 1920	10.6	42,200
1904	May 19, 1904	6.8	20,800	1921	Feb. 11, 1921	11.2	45,200
1905	July 14, 1905	10.0	38,800	1922	May 19, 1922	8.1	27,200
1906	Aug. 31, 1906	12.0	50,000	1923	Mar. 18, 1923	15.03	68,600
1907	Oct. 20, 1906	10.0	38,500	1924	Jan. 17, 1924	10.5	41,400
1908	Aug. 27, 1908	15.5	70,000	1925	Oct. 1, 1924	14.7	66,600
1909	May 22, 1909	12.5	53,000	1926	Jan. 19, 1926	10.0	38,400
1912	Mar. 16, 1912	19.0	91,000	1927	Feb. 21, 1927	8.4	28,800

1215. Abbotts Creek at Lexington, N. C.

Location.--Lat 35°48'23", long 80°14'05", on right bank 200 ft downstream from small tributary, 300 ft upstream from highway bridge, 0.6 mile downstream from bridge on U.S. Highway 64, 1½ miles southeast of Lexington, Davidson County, and 4.9 miles downstream from Rich Fork.

Drainage area.--174 sq mi.

Gage.--Recording. At site 600 ft upstream at same datum Mar. 29, 1940, to July 27, 1949. Datum of gage is 622.55 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 15, 1940	16.92	a6,820	1945	Sept. 18, 1945	17.68	7,740
1941	Nov. 15, 1940	10.32	2,370	1946	Dec. 26, 1945	11.19	2,580
	July 17, 1941	10.85	2,550		Feb. 11, 1946	16.44	6,300
1942	-	-	(b)	1947	Jan. 21, 1947	12.65	3,210
1943	Jan. 19, 1943	11.69	2,780		Sept. 25, 1947	22.12	14,800
	Feb. 6, 1943	11.66	2,780	1948	Feb. 14, 1948	10.74	2,410
	Apr. 20, 1943	12.76	3,330	1949	Nov. 29, 1948	14.68	4,660
	June 9, 1943	13.07	3,510		Dec. 31, 1948	10.79	2,440
1944	Feb. 18, 1944	11.90	2,860	1950	Oct. 31, 1949	14.70	5,160
	Mar. 30, 1944	12.38	3,110	1951	Mar. 14, 1951	6.32	1,140
	Apr. 12, 1944	14.58	4,580				
	Sept. 30, 1944	14.82	4,740				

a Annual peak only.

b Unknown; no gage-height record Feb. 19 to July 24, 1942.

PEE DEE RIVER BASIN

Peak stages and discharges of Abbotts Creek at Lexington, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1952	Dec. 22, 1951	14.38	4,800	1955	Oct. 16, 1954	15.52	5,700	
	Mar. 4, 1952	16.80	7,470		Dec. 14, 1954	11.62	2,840	
	Mar. 24, 1952	14.98	5,390		Feb. 7, 1955	13.00	3,600	
	Sept. 1, 1952	11.81	2,920		Apr. 15, 1955	12.33	3,180	
1953	Feb. 16, 1953	12.00	3,010	1956	Sept. 27, 1956	11.87	2,970	
	Feb. 22, 1953	13.56	4,030		1957	Feb. 1, 1957	17.14	7,420
	Mar. 24, 1953	12.67	3,420			Apr. 5, 1957	11.58	2,840
1954	Jan. 23, 1954	14.62	4,890					
	Mar. 14, 1954	10.99	2,580					

1219.4. Flat Swamp Creek near Lexington, N. C.

Location.--Lat 35°43'59", long 80°06'37", at culvert 1.6 miles upstream from Rocky Meadow Branch and 10 miles southeast of Lexington, Davidson County.

Drainage area.--6.56 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 340 cfs and extended on basis of culvert measurement at 840 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	March 1954	23.95	600	1957	Apr. 5, 1957	24.91	1,020
1955	Apr. 14, 1955	24.73	925	1958	April 1958	23.28	596
1956	Mar. 16, 1956	23.52	470	1959	April 1959	23.48	450

1225. Yadkin River at High Rock, N. C.

Location.--Lat 35°35'46", long 80°13'59", on right bank 0.3 mile downstream from High Rock Dam, 0.6 mile west of High Rock, Davidson County, 1 1/4 miles upstream from Lick Creek, and at mile 252.

Drainage area.--4,000 sq mi, approximately.

Gage.--Recording. Datum of gage is 558.68 ft above mean sea level, datum of 1929. January 1919 to November 1927 at datum 590.00 ft lower; gage heights listed herein corrected to present datum.

Stage-discharge relation.--Defined by current-meter measurements below 53,000 cfs and extended to 85,000 cfs on the basis of records for station at Salisbury, N. C.

Historical data.--The maximum stage known is that of July 1916.

Remarks.--Except for major floods, flow completely regulated by High Rock Lake (usable capacity, 10,230,000 cu ft) since 1927. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	a22.1	-	1946	Feb. 10, 1946	12.70	49,200
1919	July 21, 1919	-	85,000	1947	June 16, 1947	11.76	42,300
	Feb. 5, 1920	12.5	47,600	1948	Apr. 1, 1948	11.37	39,400
1920	Feb. 5, 1920	12.5	47,600	1949	Nov. 30, 1948	11.40	39,400
				1950	Nov. 1, 1949	11.01	36,500
1921	Feb. 11, 1921	12.0	43,800	1951	Apr. 10, 1951	9.25	24,700
1922	May 20, 1922	9.7	29,200		Mar. 24, 1952	12.62	48,400
1923	Mar. 18, 1923	-	76,900	1952	Mar. 25, 1953	13.33	54,000
1924	Jan. 18, 1924	11.1	37,200	1953	Jan. 24, 1954	13.65	56,400
1925	Oct. 1, 1924	-	73,000	1954	Apr. 16, 1955	12.40	46,800
1926	January 1926	-	(b)	1955			
	Feb. 21, 1927	10.0	31,600	1956	Sept. 29, 1956	6.29	9,100
1927	Feb. 21, 1927	10.0	31,600	1957	Apr. 6, 1957	11.44	39,300
1942	Mar. 9, 1942	11.54	40,100	1958	Apr. 29, 1958	13.26	54,000
	Jan. 29, 1943	11.08	37,200	1959	Sept. 8, 1959	9.55	27,100
1944	Mar. 30, 1944	11.68	41,600				
1945	Sept. 18, 1945	15.37	71,900				

a From floodmarks, from records by Tallassee Power Co.

b Unknown, occurred during period of no gage-height record.

1225.6. Cabin Creek near Jackson Hill, N. C.

Location.--Lat 35°34'57", long 80°09'12", at culvert on State Highway 8, 0.6 mile north of Jackson Hill, Davidson County, and 4 miles upstream from mouth.

Drainage area.--13.7 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 22, 1954	21.60	780	1957	April 1957	22.03	842
1955	Feb. 7, 1955	22.50	910	1958	Nov. 25, 1957	21.59	778
1956	Oct. 1, 1955	22.79	960	1959	Dec. 28, 1958	19.04	-

1227.2. Beaverdam Creek tributary near Denton, N. C.
(Published as "Beaverdam Creek" prior to Oct. 1, 1958)

Location.--Lat 35°31'57", long 80°05'04", at culvert on State Highway 109, 1.5 miles upstream from mouth, and 7.2 miles southeast of Denton, Davidson County.

Drainage area.--2.90 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurement at 103 cfs, by slope-area measurement at 318 cfs, and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 22, 1954	20.17	264	1957	June 9, 1957	20.03	246
1955	Apr. 14, 1955	21.36	445	1958	April 1958	20.23	274
1956	Oct. 1, 1955	22.00	548	1959	July 10, 1959	20.60	330

1230. Uwharrie River near Trinity, N. C.

Location.--Lat 35°52'05", long 79°59'31", 500 ft downstream from bridge on county highway, and 2 miles south of Trinity, Randolph County.

Drainage area.--11.3 sq mi.

Gage.--Nonrecording prior to July 16, 1934; recording thereafter. Altitude of gage is 670 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	June 6, 1934	4.86	1,150	1937	Jan. 19, 1937	4.67	1,060
1935	July 13, 1935	3.98	748	1938	July 23, 1938	3.64	609
1936	Jan. 3, 1936	4.18	838	1939	Feb. 26, 1939	4.64	1,040
	Jan. 6, 1936	4.19	838				
	Jan. 19, 1936	5.00	1,200	1940	May 29, 1940	5.1	1,250
	Apr. 2, 1936	4.36	903		Aug. 14, 1940	6.68	2,140
	Apr. 6, 1936	5.62	1,500				
	Aug. 7, 1936	4.36	903	1941	July 17, 1941	7.0	2,190
1937	Oct. 8, 1936	5.7	1,540				

^a Annual peak only.

1235. Uwharrie River near Eldorado, N. C.

Location.--Lat 35°25'47", long 80°01'05", on right bank 300 ft downstream from State Highway 109, 1 mile upstream from McLeans Creek, and 3 miles south of Eldorado, Montgomery County.

Drainage area.--347 sq mi.

Gage.--Recording. Datum of gage is 303.66 ft above mean sea level, datum of 1929, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 4,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1928	August 1928	a22.2	b17,900	1949	Dec. 31, 1948	5.20	4,660	
					Aug. 17, 1949	5.39	4,820	
1939	Dec. 27, 1938	9.04	4,980	1950	May 15, 1950	12.65	7,670	
	Feb. 10, 1939	10.63	6,580		1951	Apr. 3, 1951	7.60	3,480
	Mar. 1, 1939	10.29	6,130			1952	Dec. 22, 1951	5.62	4,990
	Aug. 18, 1939	13.70	9,400		Jan. 28, 1952		5.55	4,990
1940	Aug. 15, 1940	8.75	4,810	Mar. 4, 1952	20.80	16,100		
				Mar. 25, 1952	10.49	5,760		
1941	Nov. 15, 1940	8.28	4,380	Aug. 31, 1952	15.29	10,200		
				1953	Feb. 15, 1953	10.85	6,020	
					Feb. 22, 1953	10.27	5,580	
1942	Feb. 17, 1942	10.32	5,480	1954	Jan. 16, 1954	11.95	7,100	
	May 22, 1942	11.38	6,440		Jan. 22, 1954	12.62	7,670	
	Sept. 8, 1942	15.38	10,300	1955	Oct. 16, 1954	15.73	10,600	
	1943	Jan. 18, 1943	13.32		8,200	Feb. 6, 1955	12.51	7,570
Mar. 6, 1943		11.36	6,440		Apr. 15, 1955	10.14	5,400	
Apr. 20, 1943		9.74	4,990		May 23, 1955	9.70	5,070	
	July 12, 1943	13.63	8,480	Aug. 15, 1955	9.47	4,910		
1944	Jan. 16, 1944	9.45	4,750	1956	Oct. 2, 1955	10.32	5,580	
	Mar. 20, 1944	9.98	5,230		Mar. 16, 1956	12.35	7,480	
	Apr. 12, 1944	11.68	6,710	1957	Feb. 2, 1957	11.40	6,560	
	July 15, 1944	12.15	7,160		Apr. 6, 1957	9.90	5,230	
1945	Oct. 1, 1944	17.65	12,500	1958	Nov. 26, 1957	9.62	4,990	
	Apr. 18, 1945	9.83	5,070		Jan. 25, 1958	-	09,000	
	Sept. 18, 1945	26.22	23,300		Apr. 6, 1958	9.63	4,990	
			Apr. 28, 1958		10.78	6,020		
1946	Dec. 26, 1945	9.60	4,910	1959	Apr. 20, 1959	11.02	6,200	
	Feb. 11, 1946	15.51	10,400		Aug. 31, 1959	9.40	4,820	
	Aug. 23, 1946	12.02	6,980					
1947	Jan. 14, 1947	10.57	5,740					
	Jan. 20, 1947	11.01	6,080					
	Sept. 26, 1947	16.30	11,200					
1948	Feb. 12, 1948	12.47	7,570					
1949	Nov. 28, 1948	13.80	8,810					

a From floodmark established by local resident.

b Annual peak only.

c Daily mean discharge.

1240.6. North Prong Clarke Creek near Huntersville, N. C.

Location.--Lat 35°25'13", long 80°47'54", at bridge 1.0 mile upstream from South Prong and 3 miles east of Huntersville, Mecklenburg County.

Drainage area.--3.61 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter, slope-area, and contracted-opening measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 1954	21.26	1,780	1957	February 1957	16.28	318
1955	August 1955	18.11	640	1958	Nov. 19, 1957	18.22	660
1956	Mar. 16, 1956	16.80	390	1959	Aug. 9, 1959	22.25	2,450

1241.3. Mallard Creek near Charlotte, N. C.

Location.--Lat 35°19'05", long 80°44'15", at bridge on U.S. Highway 29, 0.1 mile upstream from Toby Creek, and 8 $\frac{3}{4}$ miles northeast of Charlotte, Mecklenburg County.

Drainage area.--20.7 sq mi.

Gage.--Crest-stage gage. Datum of gage is 574.50 ft above mean sea level (levels by local consulting engineer).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended on basis of slope-area measurement at 3,060 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 1954	21.82	2,100	1957	Feb. 28, 1957	20.60	1,170
1955	Apr. 14, 1955	22.58	3,060	1958	April 1958	21.40	1,650
				1959	Sept. 30, 1959	22.12	2,410
1956	Mar. 16, 1956	21.37	1,600				

1250. Big Bear Creek near Richfield, N. C.

Location.--Lat 35°20'05", long 80°20'10", 200 ft upstream from highway bridge, 300 ft downstream from Little Creek, and 10 miles southwest of Richfield, Stanly County.

Drainage area.--55.7 sq mi.

Gage.--Recording. Datum of gage is 426.62 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs and extended on basis of computation of peak flows over dam 1 mile downstream at 7,460 and 9,600 cfs. Shift in relation occurred due to extensive land clearing in April 1957 on left bank downstream.

Remarks.--Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Oct. 15, 1954	10.22	2,890	1957	June 8, 1957	13.70	7,460
	Feb. 6, 1955	11.90	4,880				
	Apr. 14, 1955	11.20	4,100	1958	Nov. 23, 1957	9.57	2,690
	May 23, 1955	9.58	2,520		Nov. 25, 1957	10.26	3,240
	July 19, 1955	10.82	3,700		Apr. 6, 1958	11.88	4,880
1956	Oct. 1, 1955	9.53	2,570		Apr. 28, 1958	9.60	2,690
	Feb. 6, 1956	9.60	2,630	1959	July 9, 1959	14.55	9,700
	Mar. 16, 1956	11.30	4,200		July 28, 1959	9.51	3,600
	July 30, 1956	10.00	2,870		July 31, 1959	8.03	2,450
1957	Feb. 28, 1957	9.32	2,490		Aug. 9, 1959	10.38	4,450
	Apr. 5, 1957	13.37	6,950		Sept. 30, 1959	9.27	3,440

1254.1. Chinkapin Creek near Monroe, N. C.

Location.--Lat 35°03', long 80°30', at bridge 2 $\frac{1}{4}$ miles upstream from Stewarts Creek, and 5 miles northeast of Monroe, Union County.

Drainage area.--8.49 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Not defined.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	September 1953	23.06	-	1957	June 5, 1957	21.55	-
1954	July 1954	23.38	-	1958	Apr. 6, 1958	21.75	-
1955	February 1955	22.86	-	1959	Sept. 30, 1959	20.87	-
1956	May 1956	23.48	-				

1260. Rocky River near Norwood, N. C.

Location.--Lat 35°09', long 80°10', on left bank 1,000 ft downstream from Lanes Creek, 1½ miles upstream from highway bridge, and 6 miles southwest of Norwood, Stanly County.

Drainage area.--1,370 sq mi, approximately.

Gage.--Recording. Datum of gage is 212.91 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 70,000 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 16,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	a35	b67,600	1943	Mar. 22, 1943 Apr. 19, 1943	17.30 16.62	23,200 22,000
1930	Oct. 2, 1929	31.4	52,500	1944	Jan. 15, 1944 Feb. 9, 1944 Feb. 15, 1944	16.24 14.37 14.80	21,300 18,300 19,000
	Oct. 22, 1929	15.34	20,200		Mar. 13, 1944 Mar. 20, 1944	15.90 23.96	20,800 42,000
	Dec. 3, 1929	13.2	16,700		Apr. 12, 1944	21.33	30,600
1931	Aug. 22, 1931	17.24	23,600	1945	Feb. 13, 1945 Aug. 4, 1945 Sept. 15, 1945	14.62 18.72 14.60	18,600 25,800 18,600
1932	Dec. 4, 1931	19.74	28,100		Sept. 18, 1945	46.37	105,000
	Jan. 1, 1932	13.77	17,700		1946	Feb. 11, 1946	20.20	b28,600
	Jan. 8, 1932	23.83	36,100	1947		Oct. 9, 1946 Jan. 14, 1947 Jan. 20, 1947	13.12 18.00 19.53	16,100 24,500 27,200
Mar. 6, 1932	22.11	32,600	Mar. 8, 1947			16.70	22,200
1933	Oct. 17, 1932	27.55	44,100		1948	Nov. 3, 1947 Nov. 12, 1947 Jan. 14, 1948	13.70 13.48 14.72	17,100 16,800 18,800
	Dec. 14, 1932	13.65	17,000	Feb. 13, 1948 Mar. 7, 1948 Apr. 1, 1948		22.90 19.45 15.57	34,000 27,100 20,300
	Dec. 26, 1932	14.37	16,400	1949		Nov. 29, 1948 Dec. 30, 1948 Jan. 6, 1949	26.68 19.5 21.78	42,200 27,200 31,800
1934	June 4, 1934	11.45	13,600		May 1, 1949 July 16, 1949 Aug. 22, 1949	16.78 15.96 13.63	22,400 21,000 16,900
	1935	Jan. 1, 1935	13.34		16,400	Aug. 29, 1949	13.80	17,300
		Mar. 13, 1935	14.88	19,100	1950	Nov. 1, 1949	15.17	19,600
Mar. 26, 1935		21.08	30,200	1951		Apr. 8, 1951	11.85	14,000
Sept. 6, 1935	13.93	17,400	1952			Dec. 21, 1951 Jan. 28, 1952 Feb. 4, 1952	15.57 14.08 17.07	20,300 17,800 22,900
Sept. 10, 1935	13.32	16,400			Mar. 4, 1952 Mar. 11, 1952 Mar. 25, 1952	29.67 13.73 18.66	49,600 17,100 25,800
1936	Jan. 3, 1936	22.90		33,600	Aug. 31, 1952	34.00	63,400
	Jan. 7, 1936	20.78	29,600	1953	Feb. 15, 1953 Feb. 21, 1953 Mar. 12, 1953	20.24 16.08 13.32	29,400 21,200 16,100
	Jan. 19, 1936	22.60	33,000		Sept. 27, 1953	18.68	26,400
Feb. 4, 1936	18.29	25,000	1954		Dec. 14, 1953 Jan. 16, 1954 Jan. 23, 1954	15.20 23.63 22.25	19,500 37,100 41,000
Feb. 14, 1936	22.05	31,900		Apr. 1, 1954	14.15	17,700	
Mar. 18, 1936	19.27	26,800		1955	Oct. 15, 1954 Feb. 7, 1955 Apr. 14, 1955	14.70 24.20 24.10	22,400 38,500 38,200
Mar. 27, 1936	18.65	25,600	Apr. 14, 1955		15.88	20,800	
Apr. 2, 1936	24.77	37,400					
Apr. 7, 1936	32.0	56,400					
Apr. 10, 1936	13.37	16,600					
1937	Oct. 9, 1936	27.30	42,600				
	Oct. 16, 1936	17.30	23,200				
	Jan. 26, 1937	14.69	18,800				
	Jan. 29, 1937	14.15	17,900				
Apr. 26, 1937	18.24	24,900					
1938	July 26, 1938	13.53	16,800				
1939	Feb. 26, 1939	21.14	30,200				
	Mar. 1, 1939	18.85	25,900				
	July 21, 1939	13.55	16,900				
	Aug. 18, 1939	16.22	21,300				
1940	May 31, 1940	9.49	10,400				
1941	Apr. 5, 1941	15.25	19,600				
	July 6, 1941	13.18	16,200				
	July 11, 1941	15.54	20,200				
1942	Feb. 17, 1942	20.25	28,500				
	Mar. 3, 1942	16.18	21,300				
	Mar. 9, 1942	22.03	31,900				
	May 22, 1942	20.44	28,900				
1943	Jan. 19, 1943	20.90	29,800				
	Jan. 28, 1943	17.67	24,000				
	Feb. 6, 1943	15.68	20,500				
	Mar. 6, 1943	20.32	28,700				

a From information by local residents.

b Annual peak only.

Peak stages and discharges of Rocky River near Norwood, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 6, 1956	14.03	17,300	1958	Jan. 25, 1958	21.28	31,900
	Mar. 16, 1956	23.65	37,100		Apr. 6, 1958	19.87	28,800
	May 4, 1956	14.80	18,800		Apr. 11, 1958	13.91	17,200
			Apr. 28, 1958		16.70	22,400	
1957	Feb. 28, 1957	16.28	21,600	1959	Feb. 5, 1959	13.31	16,100
	Apr. 5, 1957	17.28	23,600		Apr. 13, 1959	15.90	20,800
	June 9, 1957	14.60	18,400		July 10, 1959	22.92	35,500
			July 31, 1959		15.19	19,500	
1958	Nov. 23, 1957	17.21	23,400	Sept. 30, 1959	21.60	32,600	
	Nov. 25, 1957	17.15	23,400				

1265. Little Brown Creek near Polkton, N. C.

Location--Lat 34°59', long 80°11', 1 mile southwest of State convict camp on U.S. Highway 74, 1½ miles upstream from mouth, and 2 miles southeast of Polkton, Anson County.

Drainage area--13.5 sq mi.

Gage--Recording. Altitude of gage is 320 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 410 cfs and extended above by logarithmic plotting.

Remarks--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1936	Nov. 13, 1935	3.70	600	1937	Oct. 16, 1936	4.02	735	
	Jan. 3, 1936	5.07	1,220		June 4, 1937	5.43	1,400	
	Jan. 6, 1936	4.23	848	1938	July 25, 1938	4.58	1,000	
	Jan. 19, 1936	5.07	1,220		1939	Feb. 26, 1939	4.89	1,150
	Feb. 4, 1936	4.34	892			July 21, 1939	7.04	2,200
	Feb. 13, 1936	3.89	690	1940		Aug. 14, 1940	3.83	668
	Mar. 17, 1936	3.88	690					
	Mar. 26, 1936	5.58	1,500					
	Apr. 2, 1936	4.80	1,100					
	Apr. 7, 1936	4.60	1,000					

1270. Brown Creek near Polkton, N. C.

Location--Lat 35°02', long 80°09', on left bank 100 ft downstream from site of Medley's mill, 400 ft downstream from bridge on State Highway 742, 3½ miles downstream from Little Brown Creek, and 4 miles northeast of Polkton, Anson County.

Drainage area--110 sq mi.

Gage--Recording. Altitude of gage is 216 ft (by barometer).

Stage-discharge relation--Defined by current-meter measurements below 3,000 cfs and extended above by logarithmic plotting.

Remarks--Base for partial-duration series, 810 cfs.

Peak stages and discharges of Brown Creek near Polkton, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	a17.4	b16,100	1947	Mar. 10, 1947	8.42	828
1916	July 1916	a16.7	b13,600	1947	Apr. 16, 1947	10.56	1,920
1928	September 1928	a16	b11,300	1948	Feb. 14, 1948	10.50	1,790
1936	Apr. 7, 1936	13.07	b4,820	1948	Mar. 8, 1948	10.27	1,650
1937	June 5, 1937	10.35	b1,940	1949	Nov. 29, 1948	10.90	2,140
1938	Apr. 9, 1938	8.44	813	1949	Jan. 6, 1949	8.86	995
	July 27, 1938	10.63	1,870	1949	May 1, 1949	10.71	1,950
1939	Feb. 16, 1939	9.13	1,070	1949	Aug. 22, 1949	11.70	3,000
	Feb. 27, 1939	10.82	2,040	1949	Aug. 29, 1949	9.59	1,270
	July 6, 1939	9.10	1,070	1949	Sept. 8, 1949	11.64	2,880
	July 21, 1939	12.50	3,960	1950	Mar. 23, 1950	6.33	503
1940	Aug. 14, 1940	6.17	492	1951	Aug. 3, 1951	8.86	995
1941	Apr. 5, 1941	9.95	1,470	1952	Mar. 5, 1952	11.00	2,240
	July 11, 1941	11.63	2,880	1952	Mar. 26, 1952	8.46	868
	July 17, 1941	9.07	1,070	1952	Aug. 31, 1952	14.28	7,000
1942	Mar. 3, 1942	9.71	1,320	1953	Feb. 15, 1953	10.29	1,640
	Mar. 23, 1942	8.84	961	1953	Mar. 4, 1953	9.32	1,160
	May 23, 1942	10.71	1,950	1953	July 7, 1953	8.67	920
1943	Jan. 20, 1943	9.50	1,220	1953	Aug. 4, 1953	8.51	871
	Jan. 29, 1943	8.89	975	1954	Jan. 17, 1954	10.41	1,720
	Mar. 8, 1943	9.65	1,270	1954	Jan. 23, 1954	10.81	2,040
	Mar. 23, 1943	8.71	905	1954	Feb. 21, 1954	9.22	1,110
	July 10, 1943	-	(c)	1954	Apr. 2, 1954	9.30	1,150
1944	Feb. 12, 1944	8.40	810	1955	Apr. 15, 1955	11.03	2,240
	Feb. 15, 1944	9.20	1,090	1956	Feb. 7, 1956	8.50	868
	Mar. 20, 1944	12.46	3,960	1956	Mar. 17, 1956	10.43	1,720
	Apr. 12, 1944	8.85	940	1957	June 10, 1957	9.44	1,050
1945	Sept. 18, 1945	17.68	17,300	1958	Nov. 26, 1957	9.70	1,170
1946	Dec. 31, 1945	9.40	1,180	1958	Jan. 26, 1958	11.10	2,220
	July 14, 1946	8.56	870	1958	Feb. 28, 1958	9.09	950
1947	Jan. 21, 1947	8.73	911	1958	May 8, 1958	8.87	890
				1959	Feb. 6, 1959	10.03	1,320
				1959	Apr. 13, 1959	12.70	4,220

a From floodmarks witnessed by local resident.

b Annual peak only.

c Unknown, but probably greater than 810 cfs.

1273.9. Palmetto Branch at Ansonville, N. C.
(Published as "Cabbage Branch" prior to Oct. 1, 1957)

Location.--Lat 35°06'03", long 80°07'11", at culvert 0.2 mile west of Ansonville, Anson County, and 3.5 miles upstream from mouth.

Drainage area.--0.86 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurement at 19 cfs and by theoretical culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Aug. 3, 1953	22.09	196	1957	-	-	(a)
1954	February 1954	22.09	196	1958	July 8, 1958	23.92	296
1955	Oct. 15, 1954	21.09	138	1959	April 1959	20.78	122
1956	Apr. 24, 1956	23.24	261				

a Peak stage below gage; discharge less than 40 cfs.

1275. Pee Dee River near Ansonville, N. C.

Location.--Lat 35°05'07", long 79°59'57", in downstream end of center pair of bridge on State Highway 109, 1 mile downstream from Brown Creek, 6 miles east of Ansonville, Anson County, and at mile 207.

Drainage area.--6,330 sq mi, approximately.

Gage.--Recording. Altitude of gage is 175 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by rate of change in stage.

Remarks.--Flow largely regulated by High Rock, Badin, and Tillery Lakes (combined capacity for normal operation, 22,359,624,000 cu ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	August 1908	a41.3	-	1940	Aug. 16, 1940	28.20	78,700
1928	September 1928	a37.3	-	1941	Apr. 5, 1941	17.80	27,000
1929	March 1929	a31.3	-	1942	Mar. 10, 1942	24.46	56,200
1939	Mar. 1, 1939	26.26	67,600	1943	Jan. 29, 1943	24.46	57,800

a From information by North Carolina State Highway Commission.

1280. Little River near Star, N. C.

Location.--Lat 35°23'11", long 79°49'56", on left bank 12 ft downstream from highway bridge, a quarter of a mile upstream from Norfolk Southern Railway bridge, 0.3 mile downstream from West Fork Little River, and 3 miles west of Star, Montgomery County.

Drainage area.--105 sq mi.

Gage.--Recording. Datum of gage is 409.00 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	September 1945	a20	-	1958	Nov. 23, 1957	7.6f	2,520
1955	Oct. 15, 1954	16.46	10,400		Nov. 25, 1957	8.6f	3,190
	Feb. 6, 1955	10.93	4,920		Jan. 25, 1958	9.7f	4,040
	Apr. 14, 1955	9.24	3,560		Apr. 6, 1958	7.8f	2,650
	July 12, 1955	8.04	2,720		Apr. 11, 1958	8.84	3,260
	Aug. 18, 1955	7.41	2,330		Apr. 28, 1958	10.2f	4,440
	Sept. 3, 1955	10.97	5,000	1959	Dec. 28, 1958	7.5f	2,400
					Apr. 12, 1959	8.24	2,850
			Apr. 19, 1959		9.34	3,640	
1956	Oct. 1, 1955	8.92	3,330		Aug. 31, 1959	7.5f	2,460
	Mar. 16, 1956	10.51	4,600				
	July 20, 1956	8.36	2,990				
1957	Feb. 28, 1957	7.87	2,650				

a From information by local resident.

1280.4. Cheek Creek near Pekin, N. C.

Location.--Lat 35°12'37", long 79°50'49", at bridge on State Highway 731, 1.4 miles east of Pekin, Montgomery County, and 5 miles upstream from mouth.

Drainage area.--15.4 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 239 ft (from topographic map).

Stage-discharge relation.--Defined by slope-area measurements at 485, 986, and 6,230 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	20.03	970	1957	May 11, 1957	17.60	250
1955	Apr. 14, 1955	20.08	986	1958	May 6, 1958	19.91	910
				1959	Sept. 1, 1959	19.52	745
1956	July 19, 1956	24.20	6,230				

1290. Pee Dee River near Rockingham, N. C.
(Published as "Yadkin River near Pee Dee" 1906-12)

Location.--Lat 34°56'46", long 79°52'11", on left bank at bridge on U.S. Highway 74, 2.5 miles upstream from Falling Creek, 3.3 miles downstream from Blewett Falls hydroelectric plant, 6 miles west of Rockingham, Richmond County, and at mile 187.

Drainage area.--6,870 sq mi, approximately.

Gage.--Nonrecording Aug. 9, 1906, to Jan. 18, 1912, at site 3.3 miles upstream at different datum; recording thereafter. Datum of gage is 120.68 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Gage heights for period 1928-31, collected at datum 1.00 ft higher, have been corrected to present datum.

Stage-discharge relation.--Rating for 1906-12 defined by current-meter measurements below 12,000 cfs and extended above on basis of comparison with rating for present site. Defined by current-meter measurements below 194,000 cfs and extended above at present site.

Remarks.--Flow largely regulated since 1928 by four reservoirs above station (combined usable capacity for normal operation, 24,209,624,000 cu ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Oct. 20, 1906	97.4	42,400	1941	Apr. 5, 1941	8.63	39,300
1908	Aug. 27, 1908	a31.28	278,000	1942	Mar. 10, 1942	11.08	61,100
1909	June 5, 1909	b101.95	c74,000	1943	Jan. 19, 1943	11.47	60,800
1910	June 15, 1910	b100.3	c61,100	1944	Mar. 21, 1944	14.44	87,000
1911	Jan. 4, 1911	b97.0	c40,200	1945	Sept. 18, 1945	30.80	270,000
1928	Sept. 19, 1928	25.38	212,000	1946	Feb. 11, 1946	13.53	78,300
1929	Mar. 1, 1929	19.95	147,000	1947	Jan. 21, 1947	10.59	53,100
1930	Oct. 3, 1929	21.53	165,000	1948	Feb. 14, 1948	13.95	83,000
1931	May 23, 1931	11.05	56,700	1949	Nov. 30, 1948	12.45	68,400
1932	Jan. 10, 1932	13.90	82,800	1950	Nov. 2, 1949	10.97	56,500
1933	Oct. 19, 1932	12.48	69,700	1951	Apr. 9, 1951	8.94	39,200
1934	June 7, 1934	9.81	47,200	1952	Mar. 5, 1952	17.80	122,000
1935	Mar. 26, 1935	12.47	69,700	1953	Feb. 22, 1953	11.90	64,100
1936	Apr. 7, 1936	22.92	188,000	1954	Jan. 23, 1954	15.43	97,000
1937	Jan. 21, 1937	12.96	82,300	1955	Apr. 15, 1955	11.42	59,900
1938	Oct. 22, 1937	10.21	52,800	1956	Mar. 17, 1956	11.32	59,000
1939	Mar. 1, 1939	12.32	72,000	1957	Apr. 7, 1957	10.81	54,800
1940	Aug. 17, 1940	13.46	84,000	1958	Apr. 30, 1958	13.10	74,700
				1959	July 10, 1959	10.52	52,200

a From records of North Carolina State Highway Commission; present site and datum.

b Daily mean gage height.

c Daily mean discharge.

1294.4. South Fork Jones Creek near Morven, N. C.

Location.--Lat 34°51', long 80°06', at bridge on State Highway 742, 5 $\frac{1}{4}$ miles west of Morven, Anson County, and 9 $\frac{3}{4}$ miles upstream from mouth.

Drainage area.--17.3 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	16.23	495	1957	May 11, 1957	18.13	1,630
1955	Apr. 14, 1955	16.50	600	1958	Jan. 25, 1958	16.72	695
				1959	February 1959	16.72	695
1956	Mar. 16, 1956	16.25	500				

1295. North Fork Jones Creek near Wadesboro, N. C.

Location.--Lat 34°55'09", long 80°04'27", 300 ft downstream from bridge on county highway, 3 $\frac{1}{2}$ miles south of Wadesboro, Anson County, 4 miles upstream from Bailey Creek, and 5 $\frac{1}{2}$ miles upstream from confluence with South Fork Jones Creek.

Drainage area.--9.43 sq mi.

Gage.--Recording. Altitude of gage is 308 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 310 cfs and extended on basis of computation of peak flow over concrete control at 2,410 cfs.

Remarks.--Base for partial-duration series, 620 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Nov. 13, 1935	3.43	675	1939	Feb. 14, 1939	3.66	620
	Mar. 26, 1936	3.90	910		Feb. 26, 1939	3.69	940
	Apr. 2, 1936	3.54	725		July 20, 1939	6.38	2,410
	Apr. 6, 1936	3.36	630		Aug. 5, 1939	3.62	890
1937	June 4, 1937	6.39	2,410		Aug. 13, 1939	3.76	965
	June 9, 1937	4.43	1,340	1940	Aug. 14, 1940	2.48	219
	July 10, 1937	3.91	1,040				
	July 14, 1937	3.31	740	1941	July 6, 1941	3.56	725
1938	July 25, 1938	3.48	860		July 10, 1941	4.80	1,430

1295.3. Little Creek tributary near Pee Dee, N. C.
(Published as "Little Creek")

Location.--Lat 34°55'07", long 79°54'38", at culvert on State Highway 85, 100 ft upstream from mouth and 1.7 miles southwest of Pee Dee, Anson County.

Drainage area.--0.14 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by theoretical culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	-	-	(a)	1957	-	-	(a)
1955	August 1955	18.63	22	1958	-	-	(a)
				1959	July 1959	18.47	18
1956	-	-	(a)				

^a Peak stage below gage; discharge less than 13 cfs.

1300. Pee Dee River at Cheraw, S. C.

Location.--Lat 34°43', long 79°53', at Cheraw, Chesterfield County, half a mile upstream from bridge on U.S. Highway 1, three-quarters of a mile upstream from Huckleberry Creek, and 3¼ miles upstream from Thompson Creek.

Drainage area.--7,320 sq mi, approximately.

Gage.--Nonrecording prior to Sept. 14, 1929, and Sept. 19, 1945, to Sept. 16, 1949; recording Sept. 14, 1929, to Sept. 18, 1945, and since Sept. 17, 1949. At site 1¼ miles downstream at datum 2.925 ft higher prior to Sept. 14, 1929, and at present datum Sept. 14, 1929, to Jan. 3, 1939. Datum of gage is 56.92 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Historical data.--Flood of Mar. 11, 1875, was highest known before collection of records began, according to publication of U.S. Weather Bureau, dated 1893.

Remarks.--Peaks are from graphs based on gage readings during periods of non-recording gage record. Gage heights prior to 1910 and those for 1913-29, 1946-49, furnished by U.S. Weather Bureau. Peaks affected since 1928 by storage in four reservoirs above station. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	Mar. 11, 1875	37.3	-	1925	Jan. 21, 1925	31.9	-
1891	Mar. 14, 1891	34.2	-	1926	Feb. 5, 1926	25.0	-
1892	Jan. 21, 1892	36.8	-	1927	Mar. 11, 1927	27.2	-
1893	Sept. 3, 1893	34.1	-	1928	Sept. 20, 1928	42.0	-
1894	Oct. 24, 1893	32.9	-	1929	Mar. 1, 1929	39.5	-
1895	Jan. 11, 1895	34.4	-	1930	Oct. 4, 1929	42.66	-
1896	July 10, 1896	36.4	-	1931	Aug. 23, 1931	32.91	-
1897	Feb. 8, 1897	31.2	-	1932	Jan. 10, 1932	37.46	-
1898	Aug. 22, 1898	29.5	-	1933	Oct. 20, 1932	36.27	-
1899	Feb. 8, 1899	35.2	-	1934	June 7, 1934	31.59	-
1900	Apr. 21, 1900	32.1	-	1935	Mar. 27, 1935	34.99	-
1901	Aug. 8, 1901	36.2	-	1936	Apr. 8, 1936	42.50	-
1902	Jan. 1, 1902	35.5	-	1937	Jan. 22, 1937	36.50	-
1903	Mar. 24, 1903	33.8	-	1938	July 26, 1938	35.52	-
1904	Feb. 23, 1904	25.7	-	1939	Mar. 2, 1939	37.32	-
1905	Feb. 22, 1905	33.8	-	1940	Aug. 17, 1940	39.02	-
1906	Sept. 1, 1906	31.8	-	1941	Apr. 6, 1941	25.94	-
1907	Oct. 21, 1906	25.0	-	1942	Mar. 10, 1942	34.67	-
1908	Aug. 27, 1908	44.3	-	1943	Jan. 30, 1943	34.80	-
1909	Aug. 4, 1909	33.0	-	1944	Mar. 21, 1944	39.26	-
1910	June 16, 1910	31.8	-	1945	Sept. 19, 1945	50.42	-
1911	Jan. 5, 1911	25.4	-	1946	Feb. 11, 1946	39.2	-
1912	Mar. 17, 1912	39.5	-	1947	Jan. 21, 1947	32.7	-
1913	Mar. 17, 1913	36.3	-	1948	Feb. 14, 1948	33.4	-
1914	Jan. 4, 1914	29.5	-	1949	Nov. 30, 1948	37.3	-
1915	Dec. 27, 1914	33.2	-	1950	Nov. 2, 1949	35.97	-
1916	July 19, 1916	36.4	-	1951	Apr. 9, 1951	28.12	-
1917	Mar. 6, 1917	33.3	-	1952	Mar. 5, 1952	41.34	-
1918	Apr. 22, 1918	35.4	-	1953	Feb. 23, 1953	36.23	-
1919	July 23, 1919	36.3	-	1954	Jan. 24, 1954	40.10	-
1920	Feb. 5, 1920	28.6	-	1955	Apr. 15, 1955	34.74	-
1921	Feb. 12, 1921	36.6	-	1956	Mar. 17, 1956	34.39	-
1922	Feb. 17, 1922	35.0	-	1957	Apr. 7, 1957	33.91	-
1923	Mar. 19, 1923	35.3	-	1958	May 1, 1958	37.92	-
1924	Jan. 19, 1924	29.8	-	1959	Apr. 14, 1959	32.02	-

1305. Juniper Creek near Cheraw, S. C.

Location.--Lat 34°39', long 79°54', at left end of Eureka Lake Dam, 1½ miles upstream from mouth and 3½ miles south of Cheraw, Chesterfield County.

Drainage area.--64 sq mi, approximately.

Gage.--Recording. Altitude of gage is 90 ft (from Corps of Engineers map).

Stage-discharge relation.--Defined by current-meter measurements below 810 cfs and extended on basis of logarithmic plotting and computation of peak flow over dam at 3,910 cfs.

Remarks.--Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940 _a	Aug. 16, 1940	1.06	b256	1950	Nov. 3, 1949	0.995	224
1941	July 7, 1941	1.20	332	1951	Sept. 8, 1951	1.34	392
	July 15, 1941	1.33	395		1952	Mar. 6, 1952	c.975	290
1942	May 24, 1942	1.05	264	June 7, 1952		1.23	360
	Aug. 20, 1942	1.22	332	Sept. 1, 1952 _d		2.05	778
1943	Jan. 20, 1943	1.125	295	1953	June 9, 1953	2.30	880
	Mar. 8, 1943	1.14	291		July 5, 1953	1.51	522
1944	Dec. 28, 1943	1.015	252		Sept. 28, 1953	1.56	484
	Mar. 22, 1944	1.10	286	1954	Dec. 15, 1953	1.20	316
1945	Oct. 21, 1944	1.70	580		1955	Oct. 17, 1954	1.01	235
	Sept. 18, 1945	5.71	3,910	1956		May 5, 1956	1.05	253
1946	Apr. 19, 1946	c1.02	284		Sept. 15, 1956	(c)	360
	May 5, 1946	c1.30	410	1957	Sept. 12, 1957	1.20	316
	July 14, 1946	1.22	329		1958	Nov. 20, 1957	1.71	561
1947	Oct. 10, 1946	1.32	369	Nov. 25, 1957		1.28	351
	1948	Nov. 4, 1947	1.34	383		Jan. 26, 1958	1.08	266
Nov. 13, 1947		1.39	411	Feb. 27, 1958 _d		1.08	266
Feb. 15, 1948		1.41	430	May 1, 1958		1.15	295
Mar. 8, 1948		1.21	338	May 5, 1958		1.11	278
1949	Oct. 7, 1948	1.08	266	June 23, 1958	1.77	610	
	Nov. 30, 1948	1.27	347	June 29, 1958	1.03	258	
	May 2, 1949	c1.50	459	July 11, 1958	1.71	578	
	Aug. 22 or 23, 1949	1.10	260	July 22, 1958	1.92	712	
	Aug. 30, 1949	1.47	425	Aug. 27, 1958 _d	1.22	334	

a No record Oct. 1 to May 14.

b Annual peak only.

c Affected by opening of gates in control structure.

d Estimated.

1310. Pee Dee River at Peedee, S. C.
(Published as "near Mars Bluff" prior to 1948)

Location.--Lat 34°12'15", long 79°32'55", in pier of bridge on U.S. Highway 76, at Peedee, Marion County, 0.2 mile downstream from Atlantic Coast Line Railroad bridge, 8½ miles downstream from Black Creek, and at mile 102.8 upstream from Winyah Bay.

Drainage area.--8,830 sq mi, approximately; 8,850 sq mi, approximately, at former site.

Gage.--Nonrecording prior to Jan. 27, 1939; recording thereafter. At site 1.6 miles downstream at datum 0.73 ft higher prior to Jan. 27, 1939, and at datum 1.27 ft lower Jan. 27, 1939, to Sept. 30, 1947. Datum of gage is 24.73 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 48,000 cfs at former site and extended above on basis of discharge measurement of 221,000 cfs at Cheraw. Not defined prior to Jan. 27, 1939. Defined by current-meter measurements below 62,000 cfs at present site.

Bankfull stage.--13 ft prior to Jan. 27, 1939; 15 ft from Jan. 27, 1939, to Sept. 30, 1947; 19 ft thereafter.

Historical data.--Highest flood before collection of records began reached a stage of 29 ft, date unknown, according to publication of U.S. Weather Bureau, dated 1924.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau prior to Jan. 27, 1939. Peaks affected since 1928 by storage in four reservoirs above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Mar. 3, 1924	19.0	-	1942	Mar. 15, 1942	22.26	34,400
1925	Jan. 25, 1925	23.2	-	1943	Feb. 3, 1943	22.31	34,400
				1944	Mar. 26, 1944	24.32	51,800
1926	Feb. 8, 1926	19.0	-	1945	Sept. 22, 1945	33.30	220,000
1927	Mar. 14, 1927	19.6	-	1946	Jan. 4, 1946	23.76	45,400
1928	Sept. 23, 1928	29.6	-	1947	Jan. 26, 1947	22.16	30,900
1929	Mar. 5, 1929	25.4	-	1948	Feb. 19, 1948	26.23	69,300
1930	Oct. 7, 1929	27.3	-	1949	Dec. 5, 1948	24.12	47,800
				1950	Nov. 7, 1949	21.22	25,600
1931	Aug. 27, 1931	19.4	-				
1932	Jan. 15, 1932	20.9	-	1951	Apr. 14, 1951	20.36	21,600
1933	Jan. 2, 1933	21.2	-	1952	Mar. 10, 1952	25.95	62,600
1934	June 11, 1934	19.0	-	1953	Feb. 28, 1953	23.54	39,700
1935	Apr. 1, 1935	19.9	-	1954	Jan. 29, 1954	25.76	60,500
				1955	Apr. 21, 1955	22.44	32,200
1936	Apr. 11, 1936	27.1	-				
1937	Jan. 10, 1937	21.9	-	1956	Mar. 22, 1956	20.46	22,000
1938	July 31, 1938	20.3	-	1957	Apr. 13, 1957	21.58	30,000
1939	Mar. 6, 1939	25.61	66,700	1958	Dec. 1, 1957	24.58	52,600
1940	Aug. 22, 1940	22.35	35,300	1959	Apr. 26, 1959	21.44	28,800
1941	Apr. 9, 1941	19.32	17,400				

1312.2. Pee Dee River near Poston, S. C.

Location.--Lat 33°54', long 79°25', at bridge on Seaboard Air Line Railroad, 1.4 miles north of Poston, Florence County, and 6.1 miles upstream from Lynch River.

Drainage area.--9,440 sq mi (determined by Corps of Engineers).

Gage.--Nonrecording. Datum of gage is 7.47 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by U.S. Weather Bureau).

Stage-discharge relation.--Not defined.

Bankfull stage.--18 ft.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Peaks since 1928 affected by storage in four reservoirs above station. Only annual peak stages are shown.

Peak stages of Pee Dee River near Poston, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	a26.7	-	1936	Apr. 13, 1936	27.8	-
1928	Sept. 25, 1928	29.0	-	1937	Jan. 13, 1937	21.7	-
1929b/	Mar. 11, 1929	25.96	-	1938	Aug. 3, 1938	19.6	-
1930	Oct. 10, 1929	26.5	-	1939	Mar. 8, 1939	23.8	-
				1940	Aug. 24, 1940	19.5	-
1931	Aug. 30, 1931	19.1	-	1941	July 24, 25, 1941	17.3	-
1932	Jan. 17, 1932	20.9	-	1942	Mar. 17, 1942	20.1	-
1933	Jan. 4, 1933	21.4	-	1943	Feb. 8, 1943	20.0	-
1934	June 14, 1934	18.0	-				
1935	Apr. 5, 1935	19.6	-	1945	September 1945	c30.0	-

a From information by Seaboard Air Line Railway.

b No record Oct. 1, 1928, to Mar. 10, 1929, Mar. 12 to Apr. 30, 1929.

c From information by State Highway Department.

1315. Lynches River near Bishopville, S. C.

Location.--Lat 34°15', long 80°13', near center of span on downstream side of bridge on U.S. Highway 15, 1 mile upstream from Seaboard Air Line Railroad bridge, 2.9 miles northeast of Bishopville, Lee County, and 3.3 miles downstream from Bells Branch.

Drainage area.--675 sq mi.

Gage.--Nonrecording prior to Dec. 16, 1954; recording thereafter. Altitude of gage is 161 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended by velocity-area studies.

Bankfull stage.--11 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Dec. 16, 1954. Only annual peaks are shown prior to 1948. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Jan. 21, 1943	15.66	7,210	1953	Feb. 19, 1953	13.86	4,350
1944	Mar. 22, 1944	17.43	12,400		Mar. 15, 1953	13.78	4,180
1945	Sept. 19, 1945	22.35	29,400				
				1954	Dec. 17, 1953	13.67	4,350
1946	Dec. 29, 1945	14.06	3,980		Jan. 13, 1954	14.41	5,230
1947	Apr. 18, 1947	14.36	4,460		Jan. 26, 1954	14.15	4,870
					Apr. 4, 1954	14.73	5,800
1948	Feb. 17, 1948	14.60	5,610				
	Mar. 10, 1948	15.47	7,480	1955	Apr. 17, 1955	15.40	7,720
	Apr. 4, 1948	13.58	3,860				
				1956	Mar. 20, 1956	14.40	5,230
1949	Nov. 23, 1948	14.20	4,870				
	Dec. 1, 1948	16.85	10,900	1957	May 15, 1957	13.97	4,520
	Jan. 2, 1949	13.70	4,020				
	Jan. 9, 1949	14.07	4,690	1958	Nov. 21, 1957	14.35	5,610
	Feb. 23, 1949	13.57	3,860		Nov. 26, 1957	14.03	4,520
	May 3, 1949	14.71	5,800		Jan. 27, 1958	15.41	7,260
	Aug. 25, 1949	13.95	4,520		Mar. 2, 1958	13.41	3,860
	Aug. 31, 1949	14.58	5,800		Mar. 29, 1958	12.69	3,110
					Apr. 19, 1958	13.43	3,940
1950	Dec. 18, 1949	11.91	1,790		May 10, 1958	13.70	4,020
				1959	Jan. 1, 1959	13.42	3,860
1951	Apr. 12, 1951	13.02	2,970		Feb. 8, 1959	14.61	6,000
					Mar. 9, 1959	13.92	4,690
1952	Mar. 7, 1952	15.98	9,220		Apr. 15, 1959	14.75	6,400
	Mar. 28, 1952	12.90	3,110				
	Sept. 3, 1952	18.06	15,000				

1320. Lynchs River at Effingham, S. C.
(Published as "Lynchs Creek" or "Lynch Creek" prior to 1929)

Location.--Lat 34°03'05", long 79°45'15", on left bank at downstream side of bridge on U.S. Highway 52, 75 ft upstream from Atlantic Coast Line Railroad bridge and 1 mile south of Effingham, Florence County.

Drainage area.--1,030 sq mi, approximately.

Gage.--Nonrecording prior to Sept. 7, 1934; recording thereafter. Datum of gage is 58.49 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended by logarithmic plotting. Not defined prior to 1928 except for the historic flood of Aug. 30, 1908.

Bankfull stage.--14 ft.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau prior to Aug. 12, 1929. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891a	Sept. 2, 1891	14.8	-	1926	Apr. 18, 1926	14.3	-
1892	Jan. 24, 1892	17.5	-	1927	Mar. 12, 1927	8.8	-
1893	Sept. 4, 1893	16.0	-	1928	Sept. 24, 1928	19.5	16,100
1894	Aug. 11, 1894	16.2	-	1929	Mar. 10, 1929	17.5	10,800
1895	Oct. 15, 1894	16.5	-	1930	Oct. 7, 1929	19.25	15,200
1896	July 15, 1896	16.0	-	1931	Aug. 31, 1931	10.40	2,330
1897	Feb. 13, 1897	14.4	-	1932	Jan. 15, 1932	13.70	4,780
1898	Aug. 30, 1898	13.7	-	1933	Oct. 24, 1932	15.30	6,830
1899	Feb. 12, 1899	17.2	-	1934	June 13, 1934	10.30	2,300
1900	Apr. 25, 1900	16.6	-	1935	Sept. 14, 1935	12.58	3,750
1901	June 22, 1901	17.2	-	1936	Apr. 12, 1936	18.66	14,400
1902	Feb. 8, 1902	15.0	-	1937	May 2, 1937	14.09	5,200
1903	Feb. 14, 1903	16.9	-	1938	Aug. 2, 1938	13.72	4,880
1904	Aug. 14, 1904	12.8	-	1939	Mar. 4, 1939	17.39	11,200
1905	Feb. 22, 1905	13.5	-	1940	Aug. 18, 1940	9.43	1,980
1906	June 17, 1906	14.6	-	1941	July 18, 1941	12.22	3,420
1907	July 5, 1907	10.0	-	1942	May 28, 1942	14.39	5,640
1908	Aug. 30, 1908	20.0	18,000	1943	Jan. 26, 1943	13.48	4,600
1909	June 12, 1909	12.9	-	1944	Mar. 26, 1944	16.42	9,050
1910	June 18, 1910	13.1	-	1945	Sept. 22, 1945	21.21	25,000
1911	Mar. 16, 1911	9.5	-	1946	Jan. 2, 1946	13.10	4,200
1912	Feb. 21, 1912	16.5	-	1947	Apr. 16, 1947	13.57	4,700
1913	Mar. 21, 1913	15.7	-	1948	Feb. 16, 1948	14.67	6,180
1914	Mar. 6, 1914	12.8	-	1949	Dec. 5, 1948	15.92	8,320
1915	Jan. 25, 1915	13.6	-	1950	Dec. 24, 1949	8.43	1,630
1916	July 20, 1916	18.7	-	1951	Apr. 17, 1951	9.81	2,120
1917	June 18, 1917	12.0	-	1952	Sept. 6, 1952	16.76	10,900
1918	May 18, 1918	12.0	-	1953	Feb. 23, 1953	12.35	3,920
1919	July 29, 1919	16.0	-	1954	Apr. 8, 1954	12.35	3,720
1920	Mar. 22, 1920	11.9	-	1955	Apr. 22, 1955	12.60	3,920
1921	Feb. 16, 1921	16.5	-	1956	Mar. 25, 1956	11.41	2,840
1922	Mar. 12, 1922	17.3	-	1957	May 21, 1957	10.09	2,260
1923	Mar. 24, 1923	12.6	-	1958	Feb. 1, 1958	13.53	5,290
1924	Apr. 13, 1924	13.4	-	1959	Feb. 12, 1959	12.74	3,840
1925	Jan. 21, 1925	17.3	-				

a No record Oct. 1, 1890 to Mar. 22, 1891.

1321. Pee Dee River at Smiths Mills, S. C.

Location.--Lat 33°46', long 79°18', 350 ft upstream from Pine Bluff Landing, 1½ miles downstream from Smiths Mills, Georgetown County, 3 miles downstream from Clark Creek, and 8.3 miles east of Hemingway.

Drainage area.--11,000 sq mi, approximately.

Gage.--Nonrecording. At site 1½ miles upstream at about same datum prior to Sept. 1, 1911, elevation unknown.

Stage-discharge relation.--Not defined.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1893	September 1893	16.0	-	1905	Mar. 2, 3, 1905	17.1	-
1896	July 18, 1896	18.1	-	1906	Feb. 3, 4, 1906	16.4	-
1897	Mar. 23, 1897	17.4	-	1907	Oct. 31, 1906	13.6	-
1898	Aug. 31 to Sept. 6, 1898	13.9	-	1908	Sept. 3, 4, 1908	24.0	-
1899	Feb. 16, 1899	18.6	-	1909	June 17, 18, 1909	15.8	-
1900	Apr. 28, 1900	17.7	-	1910	June 24, 1910	14.2	-
1901	June 1, 1901	18.1	-	1913	Mar. 24, 1913	17.3	-
1902	Jan. 8, 1902	17.8	-	1914	Jan. 12, 1914	15.0	-
1903	Apr. 2, 1903	18.2	-	1915	Jan. 27, 1915	16.3	-
1904	Aug. 19, 1904	14.4	-	1916	Feb. 12, 1916	16.8	-

1322.3. Bridge Creek tributary at Johns, N. C.

Location.--Lat 34°42', long 79°27', at culvert on U.S. Highway 501, a quarter of a mile north of Johns, Scotland County, and three-quarters of a mile upstream from mouth.

Drainage area.--6.23 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	December 1952	20.60	230	1957	-	-	(a)
1954	-	-	(a)	1958	July 1958	19.66	137
1955	-	20.38	190	1959	April 1959	19.41	100
1956	-	-	(a)				

a Peak stage below gage; discharge less than 80 cfs.

1325. Little Pee Dee River near Dillon, S. C.

Location.--Lat 34°24', long 79°20', near center of span on downstream side of bridge on State Highway 9, 1.1 miles east of Dillon, Dillon County, and 3 miles upstream from Maple Swamp.

Drainage area.--524 sq mi.

Gage.--Nonrecording and since Mar. 16, 1955, crest-stage gage. Datum of gage is 75.14 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by South Carolina Highway Department).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs and extended by velocity-area studies and logarithmic plotting.

Bankfull stage.--7 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Mar. 16, 1955, and from crest-stage gage thereafter. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 13, 1940	8.45	1,080	1950	Nov. 7, 1949	8.06	915
1941	July 19, 1941	9.60	2,130	1951	Apr. 11, 1951	8.52	1,200
1942	Mar. 13, 1942	10.12	2,770	1952	Sept. 5, 6, 1952	b8.87	1,540
1943	July 12, 1943	9.46	2,020	1953	May 9, 1953	9.58	2,240
1944	Mar. 25, 1944	9.55	2,130	1954	Apr. 12, 13, 1954	c9.01	1,630
1945	Sept. 20, 1945	14.64	9,810	1955	Apr. 17, 1955	10.66	3,240
1946	Dec. 31, 1945	a9.40	2,020	1956	Feb. 9, 1956	9.22	1,820
	Jan. 2, 3, 1946			1957	June 12, 13, 1957	d8.51	1,200
1947	Apr. 22, 1947	9.78	2,470	1958	Dec. 1, 1957	10.32	3,090
1948	Feb. 15, 1948	10.79	3,750	1959	Apr. 17, 1959	10.04	2,710
1949	Nov. 30, 1948	10.47	3,330				

a Occurred on Jan. 3, 1946.
Apr. 13, 1954.

b Occurred on Sept. 6, 1952.
d Occurred on Mar. 8, 1957.

c Occurred on

1335. Drowning Creek near Hoffman, N. C.

Location.--Lat 35°03'38", long 79°29'39", on right bank 10 ft downstream from bridge on U.S. Highway 1, three-quarters of a mile downstream from Deep Creek, 1 mile upstream from Seaboard Air Line Railroad bridge, and 4 miles northeast of Hoffman, Richmond County.

Drainage area.--178 sq mi.

Gage.--Recording. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,600 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 850 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 22, 1940	5.28	435	1947	Apr. 16, 1947	6.25	1,050
1941	Apr. 7, 1941	6.36	1,130	1948	Feb. 14, 1948	6.49	1,280
1942	Mar. 24, 1942	5.80	640		Mar. 9, 1948	6.20	1,010
					July 26, 1948	6.20	1,010
1943	July 13, 1943	6.21	989	1949	Nov. 6, 1948	6.04	880
1944	Feb. 12, 1944	6.14	959		Nov. 30, 1948	6.41	1,200
	Mar. 22, 1944	6.87	1,680		July 16, 1949	9.21	6,560
	Apr. 14, 1944	6.55	1,340		Aug. 23, 1949	6.32	1,160
	July 15, 1944	9.63	8,000		Aug. 30, 1949	6.32	1,160
	July 20, 1944	6.32	1,120	1950	Oct. 8, 1949	7.62	2,710
1945	Aug. 22, 1945	6.02	905	1951	Apr. 11, 1951	5.51	576
	Sept. 18, 1945	10.29	10,900	1952	Mar. 4 or 5, 1952	-	(a)
1946	July 15, 1946	6.42	1,210		Mar. 26 or 27, 1952	-	(a)
	Aug. 26, 1946	6.25	1,050				

a Unknown, but probably greater than 850 cfs.

Peak stages and discharges of Drowning Creek near Hoffman, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 27, 1952	6.28	890	1956	Mar. 19, 1956	6.40	1,000
	Sept. 2, 1952	6.90	1,480		May 5, 1956	6.92	1,600
1953	Nov. 22, 1952	6.95	1,660		July 21, 1956	9.65	8,000
	Feb. 17, 1953	6.22	920	1957	May 13, 1957	6.69	1,310
	Mar. 14, 1953	6.36	1,030		Aug. 27, 1957	6.69	1,070
	Mar. 26, 1953	6.26	950	1958	Nov. 20, 1957	6.40	880
	Apr. 15, 1953	6.17	884		Nov. 25, 1957	6.73	1,110
1954	Dec. 15, 1953	6.45	1,050		May 1, 1958	6.45	910
	Jan. 18, 1954	6.39	992	May 8, 1958	6.67	1,040	
	Jan. 24, 1954	6.79	1,430	1959	Apr. 14, 1959	6.63	1,040
	Feb. 23, 1954	6.42	1,020		June 4, 1959	6.62	1,310
1955	Oct. 17, 1954	6.92	1,600		July 11, 1959	6.30	1,040
	Apr. 16, 1955	6.25	876				

1335.9. Beaverdam Creek near Aberdeen, N. C.
(Published as "Lumber River tributary" prior to Oct. 1, 1957)

Location.--Lat 35°00'42", long 79°26'50", at culvert on U.S. Highway 15 in Scotland County, 1.0 mile upstream from mouth and 8.3 miles south of Aberdeen.

Drainage area.--4.66 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above by theoretical culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	December 1952	21.02	142	1957	Aug. 20, 1957	20.84	72
1954	June 10, 1954	19.68	18	1958	Dec. 4, 1957	20.38	27
1955	Oct. 15, 1954	21.15	165	1959	Apr. 13, 1959	20.47	70
1956	-	21.37	136				

1339.6. Raft Swamp near Red Springs, N. C.
(Published as "Big Raft Swamp" prior to Oct. 1, 1958)

Location.--Lat 34°52', long 79°10', at bridge in Hoke County, 2½ miles downstream from Hodgins Pond and 3½ miles northeast of Red Springs.

Drainage area.--39.8 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 430 cfs and extended above by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 1953	20.22	620	1957	June 9, 1957	20.80	-
1954	April 1954	19.76	370	1958	June 1958	20.02	500
1955	Sept. 4, 1955	20.29	660	1959	May 1959	20.31	680
1956	-	-	(a)				

a Peak stage below gage; discharge less than 190 cfs.

1343.8. Tenmile Swamp near Lumberton, N. C.

Location.--Lat 34°43'34", long 78°59'31", at culvert on U.S. Highway 301, 1.4 miles downstream from Cowpen Branch, and 7.7 miles north of Lumberton, Robeson County.

Drainage area.--16.1 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	July 1953	20.41	165	1957	-	-	(a)
1954	-	-	(a)	1958	May 7, 1958	20.54	193
1955	Sept. 3, 1955	20.67	230	1959	Mar. 6, 1959	20.75	260
1956	-	-	(a)				

a Peak stage below gage; discharge less than 98 cfs.

1345. Lumber River at Boardman, N. C.

Location.--Lat 34°26'32", long 78°57'38", on right bank 50 ft downstream from bridge on U.S. Highway 74, 1 mile downstream from Atlantic Coast Line Railroad bridge at Boardman, Columbus County, and 1½ miles downstream from Big Swamp.

Drainage area.--1,220 sq mi, approximately.

Gage.--Nonrecording prior to June 8, 1943 (fragmentary gage-height records collected 1896-1913 by Butters Lumber Co. at site 1 mile upstream, corrected to present datum); recording thereafter. Datum of gage is 72.05 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above by logarithmic plotting. Relation affected by rate of change in stage. Discharges for Butters Lumber Co. gage readings estimated from rating for present gage.

Historical data.--Flood of July 22, 1901, was the highest experienced during 1896-1913, the period of record collected by Butters Lumber Co.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	July 22, 1901	10.8	14,800	1939	Mar. 4, 1939	10.35	12,600
1905	Feb. 25, 1905	8.7	5,960	1940	Feb.22-24, 1940	6.30	1,830
1906	Feb.16-18,1906	9.7	8,700	1941	July 21, 1941	8.16	4,660
1908	Sept.1-2, 1908	10.5	12,700	1942	Mar.11-14,1942	7.9	4,160
1909	Feb.28,Mar.1, 1909	7.3	3,160	1943	July 15, 1943	8.10	4,560
1910	June 19,20,1910	7.7	3,840	1944	Mar. 28, 1944	8.35	5,420
1928	August 1928	all.8	25,000	1945	Sept.24, 1945	10.64	13,400
1930	Oct. 9, 1929	9.20	7,430	1946	Jan. 4, 1946	7.98	4,120
1931	Aug.26-31, 1931	7.2	3,110	1947	Apr. 18, 1947	7.66	3,750
1932	Jan. 19-20, 1932	6.5	2,150	1948	Feb. 17, 1948	9.17	7,070
1933	Mar.18,1932	8.30	5,230	1949	Sept. 6, 1949	9.34	7,600
1934	Feb.22-23,1933	6.60	2,120	1950	July 30, 1950	7.11	2,880
1935	Sept.21, 1934	9.10	7,080	1951	Apr. 12, 1951	-	b1,600
1936	Sept.14-15,1935	10.09	10,800	1952	Mar.15,29,1952	7.0	2,740
1937	Apr. 13, 1936	8.7	5,920	1953	May 12, 1953	7.73	3,940
1938	Feb.5,6, 1937	8.7	5,920	1954	Apr.13-15,1954	7.5	3,260
	July 30, 1938	8.72	5,920	1955	Sept.6-11,1955	c8.56	5,170
				1956	Oct. 3, 1955	7.91	4,360
				1957	June 17, 1957	8.04	4,180
				1958	Dec. 3, 1957	9.01	6,230
				1959	Mar.9-10, 1959	8.89	5,990

a From floodmark witnessed by local resident.

b Daily mean discharge.

c Occurred at different time than peak discharge.

1350. Little Pee Dee River at Galivants Ferry, S. C.

Location.--Lat 34°03'25", long 79°14'50", near left bank on downstream side of bridge on U.S. Highway 501, at Galivants Ferry, Horry County, 1.0 mile downstream from Lake Swamp.

Drainage area.--2,790 sq mi, approximately.

Gage.--Nonrecording and, since Mar. 17, 1955, crest-stage gage. Datum of gage is 23.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--7 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Mar. 17, 1955, and from crest-stage gage thereafter. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	September 1928	a16.0	-	1951	Apr.14-16,1951	c8.32	4,890
				1952	Mar.31 to Apr2, 1952	d8.82	6,690
1942	Mar. 14, 1942	9.87	11,000	1953	Mar. 19, 1953	9.47	9,730
1943	July 18, 1943	9.76	10,500	1954	Apr.12-16, 1954	e9.10	7,930
1944	Feb.24,Mar.29, 1944	9.95	11,500	1955	Sept.11, 1955	10.36	13,900
1945	Sept.23, 1945	13.23	26,800	1956	Feb.13,14, 1956	9.48	9,270
1946	Jan. 2, 1946	9.86	11,600	1957	Mar.12-14,1957	f8.98	7,510
1947	Apr. 20, 1947	9.69	10,600	1958	Apr.7,8, 1958	g10.00	12,000
1948	Feb.16-19,1948	b11.24	17,600	1959	Mar. 10, 1959	11.21	17,600
1949	Dec. 4, 1948	10.62	14,800				
1950	July 18,19,1950	8.08	4,310				

a From floodmark set by local resident. b Occurred on Feb. 18. c Occurred on Apr. 16.
 d Occurred on Apr. 2. e Occurred on Apr. 15. f Occurred on Mar. 13.
 g Occurred on Apr. 7.

1355. Black River near Gable, S. C.

Location.--Lat 33°54'00", long 80°09'55", near left bank on downstream side of McBride Crossing on U.S. Highway 378, 1 mile downstream from Church Branch and 6.3 miles northwest of Gable, Clarendon County.

Drainage area.--401 sq mi.

Gage.--Nonrecording prior to Dec. 9, 1955; recording thereafter. Altitude of gage is 95 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peaks are from graphs based on gage readings prior to Dec. 9, 1955. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Sept. 3, 1952	5.22	4,150	1956	Feb. 9, 1956	3.58	835
1953	Feb. 28, 1953	3.95	1,660	1957	Mar. 28, 1957	3.77	713
1954	Dec. 17, 1953	3.30	742	1958	Apr. 17, 1958	5.16	3,780
1955	Apr.17,18,1955	a3.26	518	1959	Mar. 8, 1959	4.44	2,320

a Occurred on Apr. 18, 1955.

1360. Black River at Kingstree, S. C.

Location.--Lat 33°39'40", long 79°50'10", on left bank at downstream side of bridge on U.S. Highway 52 at Kingstree, Williamsburg County, 1.0 mile downstream from Kingstree Swamp Canal.

Drainage area. 1,260 sq mi, approximately.

Gage.--Nonrecord g prior to Nov. 7, 1934; recording thereafter. Datum of gage is 25.66 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs and extended by velocity-area studies since 1928.

Bankfull stage.--9 ft.

Historical data.--Flood of Sept. 11, 1893, was highest known before collection of records began, according to publication of U.S. Weather Bureau dated 1896.

Remarks.--Peaks prior to Nov. 7, 1934, are from graphs based on gage readings. Gage heights prior to Aug. 11, 1929, furnished by U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1893	Sept. 11, 1893	14.5	-	1926	Feb. 7-10, 1926	9.9	-
1894	Aug. 9, 1894	12.5	-	1927	Aug. 19, 1927	10.5	-
1895	Feb. 4, 5, 1895	11.6	-	1928	Sept. 21, 1928	18.0	41,600
				1929	Feb. 22, 23, May 27, 1929	11.7	6,060
1896	Feb. 14, 1896	10.7	-	1930	Jan. 25, 1930	12.2	7,760
1897	Feb. 15, 1897	10.3	-				
1898	Sept. 7, 1898	9.9	-	1931	Jan. 20, 21, 1931	10.10	3,120
1899	Feb. 19-21, 1899	11.6	-	1932	Mar. 16, 1932	8.60	1,550
1900	Apr. 26, 1900	11.9	-	1933	Feb. 19, 20, 1933	11.2	4,600
				1934	June 12, 13, 1934	6.80	908
1901	June 1, 1901	12.0	-	1935	Sept. 17, 1935	9.83	2,510
1902	Mar. 5, 1902	10.1	-				
1903	June 16, 1903	11.8	-	1936	Apr. 13, 1936	13.07	11,800
1904	Feb. 26-28, 1904	10.0	-	1937	Feb. 4, 1937	11.53	5,440
1905	May 9, 1905	10.9	-	1938	Apr. 14, 1938	12.00	6,730
				1939	Mar. 4, 1939	13.21	12,200
1906	June 20-22, 1906	11.8	-	1940	Feb. 23, 1940	9.70	2,400
1907	Oct. 27, 1906	10.1	-				
1908	May 3, 1908	10.4	-	1941	July 24, 1941	11.32	5,000
1909	July 17, 1909	9.4	-	1942	Mar. 9, 1942	12.26	8,160
1910	June 22, 1910	11.4	-	1943	Mar. 29, 30, 1943	a10.44	3,310
				1944	Mar. 27, 28, 1944	b11.93	6,680
1911	Oct. 18-22, 1910	8.2	-	1945	Sept. 20, 1945	16.07	29,100
1912	Jan. 12, 1912	13.3	-				
1913	Mar. 19, 1913	12.9	-	1946	Jan. 2, 3, 1946	c11.62	5,780
1914	Mar. 5-9, 1914	11.2	-	1947	Apr. 19, 1947	12.22	7,760
1915	May 16, 1915	12.7	-	1948	Feb. 14, 15, 1948	d12.81	10,400
				1949	Dec. 2, 1948	12.50	9,020
1916	July 17, 1916	15.5	-	1950	Sept. 12, 1950	9.78	2,510
1917	Jan. 30 to Feb. 1, 1917	10.9	-				
1918	May 19, 1918	12.0	-	1951	Apr. 8-10, 1951	e9.63	2,300
1919	July 27, 28, 1919	12.5	-	1952	Sept. 7, 1952	11.61	5,780
1920	Apr. 5-7, 1920	10.9	-	1953	Mar. 2-7, 1953	f11.44	5,240
				1954	Jan. 3, 4, 1954	9.09	1,860
1921	May 21, 22, 1921	11.1	-	1955	Sept. 9, 1955	10.79	3,900
1922	Mar. 14, 1922	12.7	-				
1923	Oct. 25, 1922	10.2	-	1956	Mar. 5, 1956	9.96	2,670
1924	July 6, 1924	14.6	-	1957	Mar. 28-30, 1957	g8.92	1,590
1925	Jan. 21, 1925	15.2	-	1958	Apr. 19, 1958	13.54	11,800
				1959	Mar. 9, 1959	13.58	12,000

a Occurred on Mar. 29, 1943.

b Occurred on Mar. 27, 1944.

c Occurred on Jan. 2, 1946.

d Occurred on Feb. 14, 1948.

e Occurred on Apr. 9, 1951.

f Occurred on Mar. 3, 1953.

g Occurred on Mar. 29, 1957.

1380. Catawba River near Marion, N. C.

Location.--Lat 35°42'20", long 82°03'10", on right bank 15 ft downstream from bridge on U.S. Highway 221, 0.2 mile downstream from Tom Creek, and 2.2 miles northwest of Marion, McDowell County.

Drainage area.--171 sq mi (including area of small tributary which enters above control).

Gage.--Recording. Datum of gage is 1,208 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above on basis of logarithmic plotting and contracted-opening measurements at 20,000 and 71,400 cfs.

Historical data.--The maximum stage known is that of Aug. 13, 1940.

Remarks.--Records include flow of small tributary which enters above control. Base for partial-duration series, 3,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 13, 1940	19.34	a71,400	1950	Sept. 1, 1950	9.50	5,930
					Sept. 8, 1950	11.16	7,630
1942	Mar. 9, 1942	6.95	3,710	1951	Dec. 7, 1950	12.72	9,620
	May 15, 1942	10.00	6,300				
	May 20, 1942	6.70	3,470	1952	Dec. 4, 1951	7.21	4,000
1943	Dec. 29, 1942	7.66	4,260		Feb. 3, 1952	10.58	7,010
	Jan. 19, 1943	6.90	3,630		Mar. 11, 1952	10.14	6,570
	Apr. 19, 1943	7.05	3,710		Mar. 23, 1952	6.71	3,630
1944	Sept. 30, 1944	6.48	3,560	1953	Feb. 21, 1953	8.40	4,750
1945	Sept. 18, 1945	11.38	8,210	1954	Jan. 22, 1954	10.76	7,100
1946	Feb. 10, 1946	7.90	4,420	1955	Apr. 14, 1955	9.89	6,200
1947	Jan. 20, 1947	6.43	3,240		Aug. 9, 1955	6.80	3,530
1948	Oct. 17, 1947	6.94	3,630	1956	Apr. 16, 1956	5.08	2,290
	Nov. 2, 1947	9.82	6,080	1957	Apr. 5, 1957	12.35	9,040
	July 12, 1948	8.47	4,900		June 5, 1957	8.98	5,300
	Sept. 6, 1948	10.44	6,790	1958	Apr. 28, 1958	6.23	3,090
1949	Nov. 28, 1948	8.53	4,900	1959	Dec. 28, 1958	10.30	6,600
	Apr. 13, 1949	7.14	3,790		Sept. 7, 1959	7.18	3,830
	June 16, 1949	13.30	12,700		Sept. 30, 1959	9.42	5,700
	Aug. 21, 1949	6.89	3,630				
	Aug. 28, 1949	15.02	19,700				

a Annual peak only.

1381.8. Caleb Branch tributary near Marion, N. C.

Location.--Lat 35°39', long 81°55', at culvert on State Highway 26, 1 mile upstream from mouth, and 5 miles southeast of Marion, McDowell County.

Drainage area.--0.63 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurement at 23 cfs and by culvert measurements at 49 and 147 cfs.

Remarks.--Peak stages below 19.0 ft are not recorded. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 14, 1955	19.36	49	1958	-	-	(a)
1956	-	-	(a)	1959	-	-	(a)
1957	June 4, 1957	20.75	147				

a Peak stage did not reach bottom of gage; less than 27 cfs.

1385. Linville River at Branch, N. C.

Location.--Lat 35°47'50", long 81°53'20", on right bank 20 ft downstream from bridge on State Highway 126 at Branch, Burke County, and 0.2 mile upstream from Lake James.

Drainage area.--67.2 sq mi.

Gage.--Nonrecording June 7, 1922, to Aug. 11, 1937; recording thereafter. Datum of gage is 1,205.87 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,400 cfs and extended above on basis of slope-area measurement at 39,500 cfs.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	11	a34,600	1940	Apr. 20, 1940	6.29	4,700
1923	Mar. 16, 1923	4.3	1,680		Aug. 13, 1940	11.4	39,500
	May 16, 1923	4.3	1,680		Aug. 30, 1940	8.16	11,200
	May 29, 1923	5.5	3,380	1941	Dec. 28, 1940	4.30	1,640
1924	Jan. 11, 1924	6.7	5,790		July 7, 1941	4.96	2,420
	Jan. 16, 1924	5.1	2,740	1942	Mar. 9, 1942	4.84	2,300
	July 6, 1924	4.5	1,920		May 15, 1942	5.56	3,280
	Sept. 28, 1924	6.4	5,100		May 20, 1942	4.53	1,920
1925	Dec. 8, 1924	4.7	2,180		June 13, 1942	4.39	1,750
					Sept. 6, 1942	6.30	4,700
1926	Jan. 18, 1926	4.7	2,180	1943	Dec. 30, 1942	5.32	2,900
	July 30, 1926	4.3	1,680		Apr. 19, 1943	4.75	2,170
1927	Nov. 16, 1926	4.95	2,350	1944	Sept. 30, 1944	4.04	1,360
1928	Nov. 17, 1927	6.4	5,100	1945	May 17, 1945	5.27	2,970
	Aug. 15, 1928	7.5	8,350		Sept. 14, 1945	4.63	2,120
	Sept. 5, 1928	5.4	3,210		Sept. 17, 1945	7.27	7,420
1929	Oct. 23, 1928	4.25	1,620	1946	Jan. 8, 1946	5.48	3,380
	Feb. 28, 1929	4.5	1,920		Mar. 15, 1946	4.63	2,120
	Mar. 5, 1929	4.8	2,310	1947	Jan. 20, 1947	4.15	1,620
	Mar. 14, 1929	5.9	4,090		Aug. 3, 1947	4.15	1,620
	Sept. 26, 1929	6.80	6,000	1948	Oct. 10, 1947	4.23	1,720
1930	Oct. 2, 1929	5.5	3,380		Oct. 17, 1947	5.72	3,800
	Oct. 22, 1929	5.6	3,550		Nov. 2, 1947	5.87	4,040
1931	Apr. 4, 1931	4.3	1,700		Sept. 6, 1948	5.06	2,800
	Apr. 22, 1931	4.4	1,810	1949	Nov. 6, 1948	4.62	2,150
1932	May 1, 1932	4.1	1,470		Nov. 28, 1948	4.78	2,420
1933	Oct. 16, 1932	7.1	6,910		Apr. 13, 1949	4.79	2,420
	Apr. 16, 1933	6.1	4,480		June 17, 1949	6.27	4,780
					July 18, 1949	4.33	1,840
1934	Mar. 27, 1934	4.30	1,700		July 22, 1949	4.32	1,870
					Aug. 3, 1949	4.90	2,630
1935	Nov. 23, 1934	4.7	2,180		Aug. 28, 1949	7.98	10,400
	Nov. 30, 1934	5.2	2,890	1950	Sept. 9, 1950	6.41	5,100
	Jan. 9, 1935	7.90	10,000	1951	Dec. 7, 1950	7.42	8,030
	Mar. 26, 1935	4.5	1,920	1952	Feb. 3, 1952	6.58	5,500
	Sept. 5, 1935	5.0	2,590		Mar. 11, 1952	6.25	4,820
1936	Nov. 13, 1935	4.3	1,700		Mar. 23, 1952	4.15	1,690
	Jan. 19, 1936	4.80	2,250	1953	Jan. 10, 1953	5.10	2,950
	Apr. 6, 1936	4.7	2,140		Feb. 21, 1953	5.66	3,820
1937	Oct. 16, 1936	7.99	10,400		Mar. 23, 1953	5.14	3,010
	Jan. 3, 1937	4.4	1,810	1954	Jan. 22, 1954	5.38	3,370
	Jan. 19, 1937	4.3	1,700		Feb. 21, 1954	5.22	3,130
1938	Oct. 19, 1937	5.92	4,090		May 14, 1954	4.42	1,970
	July 21, 1938	4.88	2,360	1955	Dec. 30, 1954	4.26	1,780
1939	Nov. 5, 1938	4.97	2,420		Apr. 14, 1955	6.65	5,680
	July 9, 1939	6.07	4,380				
	Aug. 18, 1939	5.90	4,090				

a Annual peak only.

Peak stages and discharges of Linville River at Branch, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Apr. 16, 1956	4.18	1,690	1957	June 5, 1957	5.21	3,040
1957	Oct. 5, 1956	4.43	1,990	1958	Dec. 20, 1957	5.00	2,740
	Oct. 22, 1956	5.13	2,920				
	Jan. 31, 1957	4.17	1,680	1959	Dec. 28, 1958	5.72	3,830
	Feb. 26, 1957	5.29	3,160				
	Apr. 2, 1957	4.94	2,660				
	Apr. 5, 1957	6.68	5,750				
				Jan. 22, 1959	4.30	1,830	
				Sept. 30, 1959	7.10	6,900	

1409.8. Carroll Creek near Collettsville, N. C.

(Published as "Cold Spring Creek near Morganton" prior to Oct. 1, 1957)

Location--Lat 35°53'21", long 81°44'18", at bridge in Burke County, 0.9 mile upstream from mouth, and 5.0 miles southwest of Collettsville.Drainage area--2.38 sq mi.Gage--Crest-stage gage. Altitude of gage is 1,078 ft (from topographic map).Stage-discharge relation--Defined by current-meter measurements below 170 cfs and extended above on basis of contracted-opening measurement at 397 cfs.Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 14, 1955	18.87	110	1958	Aug. 12, 1958	20.96	355
1956	Apr. 15, 1956	18.69	98	1959	Sept. 7, 1959	21.36	430
1957	June 5, 1957	21.12	397				

1418.9. Duck Creek near Taylorsville, N. C.

Location--Lat 35°54', long 81°18', at bridge on State Highway 127, 1 mile upstream from mouth, and 8 miles west of Taylorsville, Alexander County.Drainage area--18.6 sq mi.Gage--Crest-stage gage.Stage-discharge relation--Defined by current-meter measurements.Remarks--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	15.83	1,090	1957	Apr. 4, 1957	15.08	735
1955	Apr. 14, 1955	15.18	770	1958	Apr. 28, 1958	16.43	1,430
1956	Apr. 16, 1956	14.48	515	1959	Sept. 30, 1959	16.37	1,380

1420. Lower Little River near All Healing Springs, N. C.

Location.--Lat 35°57', long 81°14', on left bank at upstream side of highway bridge, 0.3 mile downstream from Grassy Creek, 0.4 mile upstream from Lambert Creek, 2.2 miles northeast of All Healing Springs, and 4 miles northwest of Taylorsville, Alexander County.

Drainage area.--31.2 sq mi.

Gage.--Nonrecording Jan. 1 to June 12, 1953; recording thereafter. Altitude of gage is 1,070 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements. Relation affected by seasonal changes in vegetation and occasional clearing in reach downstream.

Remarks.--Base for partial-duration series, 550 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Feb. 21, 1953	8.40	a662	1957	Sept. 17, 1957	7.16	657
1954	Jan. 22, 1954	11.80	1,040	1958	Nov. 25, 1957	6.09	561
1955	Apr. 14, 1955	7.90	607		Mar. 31, 1958	6.11	561
1956	Apr. 16, 1956	8.78	706		Apr. 6, 1958	6.55	626
					Apr. 28, 1958	13.94	2,550
1957	Apr. 5, 1957	9.48	940	1959	Dec. 28, 1958	8.50	895
	June 22, 1957	11.2	1,160		Sept. 1, 1959	7.65	653
					Sept. 30, 1959	11.90	1,350

a Annual peak only.

1424.8. Hagan Creek near Catawba, N. C.

Location.--Lat 35°40', long 81°08', at culvert on State Highway 10, 1½ miles upstream from mouth and 4½ miles southwest of Catawba, Catawba County.

Drainage area.--7.80 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Discharge defined by current-meter measurements below 610 cfs and extended above on basis of culvert measurements at 1,060, 1,840, and 2,060 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	20.67	760	1957	June 26, 1957	24.26	1,840
1955	Apr. 14, 1955	18.42	366	1958	Nov. 20, 1957	25.00	2,060
1956	Sept. 26, 1956	18.74	448	1959	Aug. 4, 1959	21.27	875

1425. Catawba River at Catawba, N. C.

Location.--Lat 35°43', long 81°04', on right bank at downstream side of bridge on U.S. Highways 64 and 70, half a mile upstream from Lyle Creek, five-eighths of a mile upstream from Southern Railway bridge, and 1 mile north-east of Catawba, Catawba County.

Drainage area.--1,535 sq mi, includes that of Lyle Creek.

Gage.--Nonrecording prior to Nov. 14, 1934; recording thereafter. July 1896 to December 1899, June 1900 to April 1902, at bridge five-eighths of a mile downstream at different datum. Datum of gage is 746.49 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--At downstream site, defined by current-meter measurements below 9,800 cfs and extended above. At present site, defined by current-meter measurements below 24,000 cfs and extended above on basis of computation by Duke Power Co. of flows over dam at 64,000 and 177,070 cfs.

Historical data.--Maximum stage known is that of July 16, 1916, at present site and datum, affected by failure of earth dike at Lookout Shoals Dam, 4 miles above station, from information furnished by North Carolina State Highway Commission.

Remarks.--Records include flow of Lyle Creek. Flow regulated by Lake James (usable capacity, 12,581,800,000 cu ft) since May 1919, by Rhodhiss Lake (usable capacity, 1,717,004,520 cu ft) since February 1925, by Lake Hickory (usable capacity, 3,378,400,000 cu ft) since April 1928, and by Lookout Shoals Lake (usable capacity, 388,300,000 cu ft) since December 1915. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Apr. 5, 1897	19.0	65,000	1945	Sept. 18, 1945	24.54	60,300
1898	Sept. 23, 1898	21.5	79,000				
1899	Mar. 19, 1899	23.2	89,200	1946	Jan. 8, 1946	15.97	24,200
				1947	June 14, 1947	21.30	43,800
1901	May 22, 1901	28.5	-	1948	Aug. 3, 1948	18.28	31,200
				1949	Aug. 29, 1949	18.28	31,200
1916	July 16, 1916	44.1	-	1950	Nov. 2, 1949	10.10	11,500
1936	Jan. 19, 1936	20.24	38,900	1951	Dec. 9, 1950	8.70	9,460
1937	Oct. 17, 1936	18.49	31,800	1952	Mar. 11, 1952	15.22	22,800
1938	Oct. 20, 1937	20.05	38,000	1953	Feb. 22, 1953	11.85	16,000
1939	Feb. 28, 1939	11.54	13,600	1954	Jan. 22, 1954	19.40	35,500
1940	Aug. 14, 1940	36.8	177,000	1955	Apr. 14, 1955	6.53	5,650
1941	July 17, 1941	18.30	31,200	1956	Sept. 26, 1956	7.09	7,020
1942	Sept. 7, 1942	14.48	20,600	1957	Apr. 6, 1957	19.74	36,700
1943	Dec. 30, 1942	12.40	15,800	1958	Apr. 28, 1958	13.75	20,200
1944	Sept. 30, 1944	12.18	15,400	1959	Dec. 29, 1958	11.94	16,200

1430. Henry Fork near Henry River, N. C.

Location.--Lat 35°41', long 81°24', on left bank 450 ft downstream from highway bridge, at site of Old Link Ford, 1½ miles downstream from Burke-Catawba County line, and 2 miles southeast of village of Henry River, Burke County.

Drainage area.--80 sq mi, approximately.

Gage.--Recording. Datum of gage is 890.99 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs, by slope-area measurement at 5,300 cfs and by computation of peak flows over dam 2 miles upstream at 5,470, 6,870, 20,700, and 31,300 cfs.

Historical data.--Maximum stage known is that of Aug. 13, 1940.

Remarks.--Base for partial-duration series, 2,800 cfs.

SANTEE RIVER BASIN

Peak stages and discharges of Henry Fork near Henry River, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 16, 1916	23	a20,700	1948	Nov. 2, 1947 Aug. 2, 1948	7.80 14.47	3,740 10,500
1926	Jan. 18, 1926	9.5	5,520	1949	Nov. 28, 1948 Aug. 28, 1949 Aug. 31, 1949	8.64 11.87 6.81	4,080 6,910 2,810
1927	Feb. 20, 1927	5.6	2,100	1950	Oct. 7, 1949	8.44	3,930
1928	Aug. 11, 1928 Aug. 16, 1928	14.05 15.30	9,900 11,500	1951	Dec. 7, 1950	10.50	4,870
1929	Feb. 28, 1929 Sept. 26, 1929	7.5 9.8	3,550 5,850	1952	Feb. 3, 1952 Aug. 28, 1952 Mar. 11, 1952	10.40 8.06 11.20	4,800 3,300 5,350
1930	Oct. 2, 1929	18.4	15,300	1953	Feb. 21, 1953 Aug. 19, 1953	7.59 8.30	2,970 3,420
1931	May 21, 1931	6.54	2,750	1954	Jan. 22, 1954 Feb. 21, 1954	12.82 9.07	6,500 3,940
1940	Aug. 13, 1940	29.2	a31,300	1955	Feb. 6, 1955	7.10	2,660
1942	Feb. 17, 1942 Mar. 9, 1942	7.60 7.99	3,680 4,000	1956	Apr. 16, 1956	6.81	2,480
1943	Dec. 29, 1942 Jan. 28, 1943 Apr. 19, 1943	7.35 6.96 7.44	3,520 3,200 3,520	1957	Apr. 5, 1957	8.17	3,360
1944	July 14, 1944 Sept. 30, 1944	7.90 8.70	3,920 4,600	1958	Apr. 6, 1958 Apr. 28, 1958	8.47 7.78	3,560 3,100
1945	Oct. 20, 1944 Sept. 18, 1945	8.91 16.58	4,710 13,000	1959	Dec. 28, 1958 Sept. 30, 1959	9.98 10.53	4,970 5,350
1946	Feb. 10, 1946	8.09	3,990				
1947	June 14, 1947	16.56	13,000				

a Annual peak only.

1433.1. South Fork Catawba River tributary near Lincolnton, N. C.

Location.--Lat 35°27'50", long 81°13'20", at culvert 2 miles east of Lincolnton, Lincoln County, and 2½ miles upstream from mouth.

Drainage area.--1.01 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 40 cfs and extended on basis of theoretical computations of flow through culvert and culvert measurement at 396 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	February 1954	21.42	145	1957	Feb. 1, 1957	20.87	70
1955	Apr. 12, 1955	21.26	115	1958	Nov. 19, 1957	22.20	396
1956	May 1956	22.48	565	1959	Sept. 30, 1959	a21.39	93

a Backwater from brush.

1435. Indian Creek near Laboratory, N. C.

Location.--Lat 35°25'20", long 81°15'50", on left bank 250 ft upstream from remains of Rudisill Mill dam, half a mile upstream from highway bridge, 1½ miles upstream from mouth, 1½ miles south of Laboratory, Lincoln County, and 3½ miles south of Lincolnton.

Drainage area.--68.4 sq mi.

Gage.--Recording. Altitude of gage is 736 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 3,900 cfs and extended on basis of computation of peak flow over dam 1 mile downstream at 5,030 cfs.

Historical data.--Maximum discharge known is that of October 1929.

Remarks.--Only annual peaks are shown prior to September 1940. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	-	a7,840	1956	July 9, 1956	4.80	1,360
					Sept.27, 1956	4.54	1,140
1930	October 1929	-	a9,920	1957	Feb. 1, 1957	5.73	2,220
1940	August 1940	-	b6,000		Mar. 1, 1957	4.70	1,270
					June 9, 1957	5.07	1,580
1952	Dec. 21, 1951	6.49	2,890	1958	Nov. 19, 1957	7.35	3,750
	Mar. 4, 1952	8.74	5,030		Nov. 23, 1957	4.24	1,090
	Mar. 11, 1952	5.38	1,900		Nov. 25, 1957	5.50	1,860
	Mar. 23, 1952	6.27	2,710		Mar. 31, 1958	3.85	865
	Aug. 7, 1952	5.38	1,900		Apr. 6, 1958	4.58	1,320
1953	Feb. 21, 1953	4.85	1,400		Apr. 28, 1958	6.87	3,270
					July 18, 1958	3.87	865
1954	Jan. 23, 1954	7.58	3,950	1959	Dec. 29, 1958	6.69	3,080
1955	Apr. 14, 1955	3.77	630		Mar. 6, 1959	4.03	915
					Apr. 22, 1959	4.40	1,150
1956	Oct. 1, 1955	4.13	830		Sept. 8, 1959	5.50	2,020
	Feb. 7, 1956	4.38	1,010		Sept.30, 1959	6.64	2,990
	Apr. 16, 1956	4.91	1,450				

a From information by local residents.

b By computation of peak flow over dam 1 mile downstream.

1440. Long Creek near Bessemer City, N. C.

Location.--Lat 35°18'20", long 81°14'00", on right bank 700 ft upstream from highway bridge, 2 miles northeast of Bessemer City limits, Gaston County, and 8¼ miles upstream from mouth.

Drainage area.--31.4 sq mi.

Gage.--Recording. Datum of gage is 706.1 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended on basis of contracted-opening measurement at 5,290 cfs.

Remarks.--Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Feb. 21, 1953	4.88	795	1956	Sept. 26, 1956	4.62	700
	Mar. 23, 1953	4.72	714				
	June 10, 1953	4.95	816	1957	Jan. 31, 1957	4.66	722
1954	Jan. 16, 1954	4.80	754	1958	Nov. 19, 1957	8.26	5,290
	Jan. 22, 1954	5.13	898		Nov. 23, 1957	4.72	745
	Feb. 21, 1954	5.35	980		Nov. 25, 1957	5.11	950
1955	Feb. 6, 1955	5.18	970		Apr. 6, 1958	5.50	1,070
	May 21, 1955	5.33	1,040		Apr. 29, 1958	6.52	2,170
					July 21, 1958	5.54	1,100
1956	Oct. 1, 1955	4.90	832	1959	Dec. 28, 1958	5.47	1,180
	Feb. 6, 1956	4.59	700		Mar. 6, 1959	5.29	1,070
	Mar. 16, 1956	5.12	924		Apr. 21, 1959	5.12	950
	Apr. 16, 1956	5.30	1,020		Aug. 4, 1959	4.57	680
	May 3, 1956	4.65	722		Sept. 30, 1959	5.67	1,330

1450. South Fork Catawba River at Lowell, N. C.

Location.--Lat 35°17'10", long 81°06'00", on right bank 50 ft north of private mill road, 120 ft downstream from Housers Creek, 1 mile north of Lowell, Gaston County, and 3 miles downstream from Long Creek.

Drainage area.--630 sq mi.

Gage.--Recording. Datum of gage is 603.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs and extended above.

Historical data.--Maximum stage known at the gage is that of Aug. 15, 1940. However, the depth of flow over dam during the July 1916 flood at High Shoals 11 miles upstream was about 1 ft higher than that for 1940, from information by local resident.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 15, 1940	21.33	34,000	1951	Aug. 14, 1951	7.83	3,980
1942	Feb. 17, 1942	10.85	8,850	1952	Dec. 21, 1951	11.94	10,700
	Sept. 6, 7, or 8, 1942	10.63	8,510		Mar. 4, 1952	15.30	18,300
1943	Jan. 29, 1943	10.54	8,380		Mar. 24, 1952	12.45	11,700
	July 10, 1943	12.88	12,800		Aug. 7, 1952	10.64	8,540
1944	Sept. 30, 1944	11.98	11,000	1953	Mar. 24, 1953	10.58	8,190
1945	Sept. 19, 1945	16.98	22,000	1954	Jan. 23, 1954	13.32	13,700
1946	Jan. 8, 1946	12.04	11,000	1955	Feb. 7, 1955	8.71	5,380
	Feb. 11, 1946	12.95	13,000	1956	Apr. 16, 1956	9.68	6,750
1947	Jan. 20, 1947	10.60	8,540	1957	Feb. 2, 1957	11.04	8,800
1948	Feb. 13, 1948	10.60	8,060	1958	Nov. 20, 1957	13.35	13,900
	Nov. 28, 1948	11.57	9,450		Apr. 29, 1958	13.05	13,000
1950	Oct. 7, 1949	12.67	12,400	1959	Dec. 29, 1958	11.7?	10,500
	Oct. 31, 1949	11.09	8,470		Sept. 30, 1959	11.68	10,300

a Annual peak only.

1460. Catawba River near Rock Hill, S. C.

Location.--Lat 34°59', long 80°58', on right bank at downstream side of bridge on U.S. Highway 21, 3½ miles downstream from dam at Lake Wylie, 5 miles northeast of Rock Hill, York County, and 7½ miles upstream from Sugar Creek.

Drainage area.--3,050 sq mi, approximately.

Gage.--Nonrecording prior to Aug. 1, 1903, at site 2 miles downstream at different datum; recording thereafter. Altitude of gage is 492 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peaks are from graphs based on gage readings prior to Aug. 1, 1903.

Peak discharges since 1904 affected by storage in upstream reservoirs. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	July 10, 1896	15.2	71,500	1942a	Sept. 8, 1942	10.61	25,900
1897	Feb. 7, 1897	14.8	68,500	1943	July 10, 1943	16.99	56,100
	1899	Mar. 20, 1899	18.0	95,000	1944	Sept. 30, 1944	11.55	30,200
1945					Sept. 19, 1945	20.84	76,800
1901	May 23, 1901	24.15	151,000	1946	Feb. 11, 1946	15.05	46,000
1902	Dec. 30, 1901	19.7	108,000	1947	Jan. 20, 1947	13.57	39,300
1905	Mar. 24, 1903	18.0	93,800	1948	Mar. 31, 1948	13.63	39,300

a No record Oct. 1 to Apr. 6.

Peak stages and discharges of Catawba River near Rock Hill, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Nov. 28, 1948	17.79	60,200	1955	Apr. 15, 1955	7.69	14,200
1950	Nov. 1, 1949	10.03	23,600	1956	Apr. 16, 1956	7.77	14,600
1951	Jan. 23, 1951	7.49	13,600	1957	Apr. 7, 1957	12.93	36,100
1952	Mar. 4, 1952	16.96	56,100	1958	Apr. 28, 1958	15.82	50,000
1953	Mar. 24, 1953	13.49	38,900	1959	Dec. 30, 1958	10.39	25,100
1954	Jan. 23, 1954	16.01	51,000				

1465. Little Sugar Creek near Charlotte, N. C.

Location.--Lat 35°09'13", long 80°51'18", on right bank 10 ft upstream from highway bridge at sewage-disposal plant of city of Charlotte, 1,500 ft downstream from Briar Creek, and 4.8 miles south of city hall in Charlotte, Mecklenburg County.

Drainage area.--40.5 sq mi.

Gage.--Nonrecording July 3, 1924, to Apr. 25, 1927; recording thereafter. Prior to Oct. 1, 1958, at site 1,000 ft upstream at datum 2.7 ft higher. Datum of gage is 568.9 ft above mean sea level (city of Charlotte datum).

Stage-discharge relation.--Defined at upstream site by current-meter measurements below 2,600 cfs and extended above on basis of slope-area measurements at 3,200, 4,120, and 4,220 cfs, and contracted-opening measurement at 4,770 cfs. Defined at present site by current-meter measurements below 2,300 cfs and extended on basis of contracted-opening measurement at 4,777 cfs.

Remarks.--Increasing urbanization of watershed throughout the period of record may have some effect on frequency and magnitude of peaks. Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	During spring	13.4	a5,500	1934	June 5, 1934	9.6	2,630
1925	Jan. 11, 1925	9.1	2,400	June 8, 1934	9.2	2,390	
	Aug. 5 or 6, 1925	12.5	4,760	Sept. 7, 1934	9.6	2,630	
1926	Jan. 18, 1926	10.5	3,240	Sept. 13, 1934	8.8	2,150	
				1935	Mar. 25, 1935	10.0	2,890
1927	Feb. 23, 1927	10.10	2,980	July 13, 1935	10.62	3,300	
				1936	Jan. 3, 1936	9.1	2,330
1928	Oct. 12, 1927	9.3	2,450	Jan. 6, 1936	10.8	3,440	
	Dec. 15, 1927	10.0	2,890	Jan. 19, 1936	15.2	7,300	
	Aug. 11, 1928	10.5	3,230	Mar. 17, 1936	9.0	2,270	
	Aug. 16, 1928	14.97	7,030	Mar. 26, 1936	10.8	3,440	
	Sept. 2, 1928	8.8	2,150	Apr. 2, 1936	10.4	3,160	
	Sept. 5, 1928	9.1	2,330	Apr. 6, 1936	16.2	8,370	
	Sept. 18, 1928	11.6	4,040	July 30, 1936	12.4	4,680	
				Aug. 11, 1936	9.5	2,570	
1929	Feb. 28, 1929	13.40	5,340	1937	Apr. 25, 1937	11.94	4,280
	Mar. 5, 1929	11.7	4,120	1938	July 24, 1938	6.43	1,020
	June 14, 1929	9.5	2,570	1939	Feb. 26, 1939	10.29	3,100
1930	Oct. 2, 1929	10.4	3,160	May 25, 1939	9.72	2,730	
	Aug. 6, 1931	9.60	2,630	June 14, 1939	9.55	2,670	
1931	Aug. 21, 1931	9.1	2,330	July 21, 1939	10.90	3,520	
				Aug. 18, 1939	9.89	2,850	
1932	Dec. 4, 1931	9.4	2,510	1940	Aug. 14, 1940	8.75	2,230
	Dec. 31, 1931	9.0	2,270	1941	July 6, 1941	12.40	4,680
	Mar. 6, 1932	11.0	3,590	1942	Feb. 17, 1942	11.67	4,120
	Mar. 28, 1932	13.0	5,190	Mar. 8, 1942	9.21	2,450	
	June 12, 1932	13.90	5,860	May 21, 1942	11.03	3,590	
	Aug. 4, 1932	9.2	2,390	June 11, 1942	14.50	6,600	
1933	Oct. 16, 1932	10.1	2,960	1943	Jan. 18, 1943	10.22	3,040
	Aug. 16, 1933	8.9	2,210	1944	Mar. 20, 1944	9.83	2,790
	Sept. 13, 1933	12.85	4,760				

a Annual peak only.

Peak stages and discharges of Little Sugar Creek near Charlotte, N. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	July 2, 1944	12.64	4,840	1953	Aug. 1, 1953	9.21	2,750
	July 9, 1944	9.23	2,700	1954	Jan. 16, 1954	9.42	2,850
	Sept. 21, 1944	8.33	2,250		Jan. 22, 1954	10.33	3,370
1945	Sept. 17, 1945	10.48	3,430	Mar. 14, 1954	10.00	3,150	
1946	Feb. 10, 1946	-	(b)	1955	Feb. 6, 1955	10.23	3,100
1947	Oct. 8, 1946	7.40	1,800	Apr. 14, 1955	12.30	4,450	
	Jan. 13, 1947	7.42	1,800	May 22, 1955	10.67	3,390	
1948	Nov. 3, 1947	8.75	2,280	1956	Oct. 1, 1955	9.77	2,880
	Feb. 12, 1948	8.50	2,160		Mar. 16, 1956	10.34	3,160
	Aug. 3, 1948	10.83	3,360	May 3, 1956	9.68	2,930	
1949	Nov. 28, 1948	11.28	3,730	May 7, 1956	9.20	2,570	
	Jan. 5, 1949	9.41	2,550	1957	Apr. 5, 1957	9.64	2,780
	Apr. 30, 1949	8.67	2,240		June 17, 1957	8.25	2,120
	Aug. 28, 1949	10.42	3,090	1958	Jan. 24, 1958	10.64	3,450
1950	Oct. 7, 1949	8.52	2,160		Apr. 6, 1958	11.69	4,140
1951	Sept. 25, 1951	8.69	2,240		Apr. 10, 1958	10.03	2,990
	1952	Dec. 20, 1951	9.45		2,550	Apr. 28, 1958	9.64	2,880
Mar. 4, 1952		11.47	4,030		May 17, 1958	12.62	4,830
Mar. 11, 1952		7.99	2,170	July 20, 1958	9.10	2,520	
Aug. 31, 1952		12.00	4,360	Aug. 2, 1958	13.10	5,060	
1953	Feb. 15, 1953	8.00	2,170	1959	July 9, 1959	9.50	2,350
	Feb. 20, 1953	9.40	2,850		Aug. 29, 1959	10.65	2,900
					Sept. 6, 1959	10.25	2,700
					Sept. 29, 1959	10.40	2,800

b Unknown, occurred during period of no gage-height record.

1468.9. East Fork Twelve Mile Creek near Waxhaw, N. C.

Location.--Lat 34°58', long 80°43', at bridge 3 miles upstream from mouth, and 3½ miles northeast of Waxhaw, Union County.

Drainage area.--42.3 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 1954	23.37	1,800	1957	Apr. 4, 1957	22.3 ^a	1,500
1955	February 1955	23.18	1,750	1958	Jan. 24, 1958	21.76	1,320
1956	March 1956	22.99	1,690	1959	Sept. 7, 1959	25.5	-

1469.9. Catawba River near Catawba, S. C.

Location.--Lat 34°51', long 80°52', on right bank 60 ft downstream from Seaboard Air Line Railroad bridge, 100 ft downstream from Twelve Mile Creek, and 2.5 miles east of Catawba, York County.

Drainage area.--3,530 sq mi, approximately; 3,540 sq mi, approximately, at former site.

Gage.--Nonrecording prior to Jan. 1, 1949, at site 2.1 miles downstream at different datum; recording subsequent to May 13, 1958. Datum of gage is 446.18 ft above mean sea level (levels by Bowaters Carolina Corp.).

Stage-discharge relation.--Defined for water year 1904 by current-meter measurements below 6,500 cfs and extended tangentially to 26,200 cfs. Not defined thereafter.

Remarks.--Peaks prior to Jan. 1, 1949, are from graphs based on gage readings. Gage heights from June 30, 1906, to Dec. 31, 1948, furnished by the U.S. Weather Bureau. Peaks since 1904 affected by storage in upstream reservoirs. Only annual peak for 1904 is shown.

Peak stages and discharges of Catawba River near Catawba, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 23, 1901	a24.8	-	1928	Aug. 17, 1928	26.0	-
1904	Aug. 8, 1904	10.5	26,200	1929	Mar. 1, 1929	17.0	-
1905	July 14, 1905	18.8	-	1930	Oct. 3, 1929	28.7	-
1907	Oct. 20, 1906	15.9	-	1931	Sept. 2, 1931	4.5	-
1908	Aug. 25, 1908	28.4	-	1932	Jan. 9, 1932	12.0	-
1909	June 5, 1909	16.1	-	1933	Oct. 18, 1932	16.5	-
1910	Mar. 2, 1910	12.6	-	1934	June 7, 1934	6.4	-
1911	Oct. 9, 1910	12.3	-	1935	Mar. 13, 26, Apr. 1, 1935	11.0	-
1912	Mar. 16, 1912	26.0	-	1936	Apr. 7, 1936	25.0	-
1913	Mar. 16, 1913	19.3	-	1937	Jan. 4, 1937	16.4	-
1914	Apr. 16, 1914	12.0	-	1938	Oct. 21, 1937	12.5	-
1915	Dec. 6, 1914	17.0	-	1939	Mar. 1, 1939	15.0	-
1916	July 16, 1916	40.4	-	1940	Aug. 16, 1940	24.3	-
1917	Mar. 5, 1917	17.5	-	1941	July 8, 1941	15.7	-
1918	Jan. 30, 1918	10.8	-	1942	Mar. 9, 1942	13.9	-
1919	July 21, 1919	20.8	-	1943	July 10, 1943	16.5	-
1920	Aug. 28, 1920	14.6	-	1944	Mar. 20, 1944	13.2	-
1921	Feb. 11, 1921	16.4	-	1945	Sept. 19, 1945	23.2	-
1922	Feb. 15, 1922	16.2	-	1946	Feb. 11, 1946	15.1	-
1923	Mar. 17, 1923	17.0	-	1947	Jan. 20, 1947	15.0	-
1924	Jan. 18, 1924	14.0	-	1948	Feb. 13, 1948	14.7	-
1925	Oct. 1, 1924	18.3	-	1949b/	Nov. 29, 1948	19.0	-
1926	Mar. 10, 1926	5.8	-	1959	Dec. 30, 1958	12.52	-
1927	Mar. 15, 1927	5.0	-				

a From information by U.S. Weather Bureau.
 b No record Jan. 1 to June 30.

1475. Rocky Creek at Great Falls, S. C.

Location.--Lat 34°34', long 80°55', on left bank 350 ft downstream from Turkey Branch, 1 mile west of Great Falls, Chester County, and 1.6 miles upstream from mouth.

Drainage area.--194 sq mi.

Gage.--Recording. Altitude of gage is 299 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 2,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Mar. 4, 1952	9.77	8,880	1956	Mar. 17, 1956	7.56	5,080
	Mar. 11, 1952	5.74	2,640		Apr. 16, 1956	6.88	4,070
	Mar. 25, 1952	6.06	2,990	1957	Apr. 6, 1957	7.04	4,290
	Sept. 1, 1952	7.72	5,230		Apr. 9, 1957	6.30	3,380
1953	Feb. 16, 1953	7.41	4,780	1958	Nov. 19, 1957	7.08	4,430
	Feb. 21, 1953	7.71	5,230		Nov. 24, 1957	6.81	4,020
1954	Jan. 17, 1954	8.08	5,860		Nov. 26, 1957	5.91	2,900
	Jan. 23, 1954	7.23	4,490		Jan. 25, 1958	7.93	5,600
	Mar. 1, 1954	6.12	3,050	1959	Feb. 5, 1959	5.89	2,900
	Apr. 1, 1954	8.00	5,700		Mar. 6, 1959	6.02	3,020
1955	Feb. 7, 1955	6.31	3,290		July 10, 1959	8.84	7,340
	Apr. 15, 1955	8.27	6,180		Aug. 30, 1959	6.25	3,260
	Aug. 15, 1955	8.22	6,020		Sept. 7, 1959	7.35	4,850
1956	Feb. 7, 1956	5.85	2,760		Sept. 30, 1959	10.23	10,800

1480. Wateree River near Camden, S. C.

Location.--Lat 34°14'40", long 80°39'15", in pier of bridge on U.S. Highway 1, 1,500 ft downstream from Twentyfivemile Creek, 4,000 ft upstream from Seaboard Air Line Railroad bridge, 2.2 miles west of Camden, Kershaw County, and 7.4 miles downstream from Wateree Dam.

Drainage area.--5,070 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 24, 1929; recording thereafter. At site 1½ miles downstream at datum 1.65 ft lower prior to Oct. 1, 1929. At site 830 ft upstream at present datum Oct. 1, 1929, to Sept. 1, 1942. Datum of gage is 119.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined prior to 1905. Defined 1905-10, 1916, by current-meter measurements below 20,000 cfs and extended on basis of computation, by Duke Power Co., of peak flow of 382,000 cfs over dam at Rocky Creek Reservoir in July 1916. Not defined 1911-15, 1917-22. Defined since October 1929, by current-meter measurements below 122,000 cfs and extended as explained above.

Bankfull stage.--23 ft.

Historical data.--Flood of September 1886 was highest known before collection of records began, according to publication of the U.S. Weather Bureau dated 1893.

Remarks.--Peaks are from graphs based on gage readings during periods of non-recording gage record. Gage heights prior to January 1903 and those for January to September 1904, July 1910 to September 1929 furnished by the U.S. Weather Bureau. Peaks affected since 1904 by storage in reservoirs upstream, particularly by Wateree Reservoir since 1919. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1886	September 1886	31.5	-	1926	Apr. 2, 1926	19.4	-
1892	Jan. 20, 1892	30.1	-	1927	July 23, 1927	12.7	-
1893	Aug. 30, 1893	29.6	-	1928	Aug. 18, 1928	35.0	-
1894	Oct. 24, 1893	30.5	-	1929	Mar. 1, 1929	31.8	-
1895	Oct. 10, 1894	30.2	-	1930	Oct. 3, 1929	36.2	163,000
1896	July 11, 1896	28.8	-	1931	Dec. 23, 1930	14.31	11,600
1897	Feb. 8, 1897	29.7	-	1932	Jan. 9, 1932	28.31	50,700
1898	Sept. 25, 1898	28.0	-	1933	Dec. 28, 1932	25.37	32,000
1899	Feb. 8, 1899	31.0	-	1934	June 9, 1934	20.85	20,200
1900	Apr. 23, 1900	28.4	-	1935	Mar. 14, 1935	24.03	30,000
1901	May 24, 1901	32.5	-	1936	Apr. 7, 1936	36.83	168,000
1902	Dec. 31, 1901	31.2	-	1937	Jan. 4, 1937	27.26	52,500
1903	Mar. 25, 1903	30.4	-	1938	Apr. 9, 1938	14.92	13,300
1904	Aug. 9, 1904	25.2	-	1939	Mar. 2, 1939	29.01	70,500
1905	July 15, 1905	29.6	66,800	1940	Aug. 16, 1940	30.50	89,000
1906	Dec. 22, 1905	28.6	54,100	1941	July 9, 1941	28.10	60,600
1907	Oct. 21, 1906	28.7	55,000	1942	Mar. 10, 1942	24.85	35,400
1908	Aug. 26, 1908	39.7	366,000	1943	Jan. 20, 1943	24.76	35,400
1909	June 5, 1909	31.7	103,000	1944	Mar. 21, 1944	29.08	71,700
1910	Mar. 2, 1910	26.9	39,700	1945	Sept. 18, 1945	23.84	132,000
1911	Oct. 10, 1910	26.9	-	1946	Jan. 9, 1946	24.28	33,800
1912	Mar. 17, 1912	35.4	-	1947	Jan. 21, 1947	27.87	58,500
1913	Mar. 17, 1913	34.0	-	1948	Apr. 2, 1948	27.96	59,500
1914	Jan. 4, 1914	27.6	-	1949	Nov. 30, 1948	31.44	101,000
1915	Dec. 27, 1914	30.5	-	1950	Nov. 3, 1949	19.21	20,500
1916	July 18, 1916	40.4	400,000	1951	Apr. 11, 1951	15.11	15,200
1917	Mar. 6, 1917	30.3	-	1952	Mar. 5, 1952	31.35	82,900
1918	Apr. 21, 1918	28.2	-	1953	Feb. 24, 1953	20.82	24,500
1919	July 21, 1919	33.0	-	1954	Jan. 24, 1954	29.35	67,000
1920	Aug. 29, 1920	28.6	-	1955	Apr. 16, 1955	22.66	30,800
1921	Feb. 11, 1921	31.0	-	1956	Mar. 18, 1956	15.93	16,800
1922	Feb. 16, 1922	30.2	-	1957	Apr. 10, 1957	19.63	22,200
1923	Mar. 18, 1923	30.0	-	1958	Nov. 26, 1957	25.20	36,800
1924	July 9, 1924	24.5	-	1959	July 11, 1959	16.66	17,500
1925	Jan. 20, 1925	31.0	-				

a Occurred on Sept. 19, 1945.

1483.2. Wateree River at Malta, S. C.

Location.--Lat 33°52', long 80°38', at Atlantic Coast Line Railroad bridge at Malta, Sumter County, 3.4 miles upstream from Old River and 4 miles east of Eastover.

Drainage area.--5,514 sq mi (determined by U.S. Weather Bureau).

Gage.--Nonrecording.

Stage-discharge relation.--Not defined.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Peaks affected by storage in reservoirs upstream, particularly by Wateree Reservoir since 1919. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Aug. 28, 1908	24.0		1928	Aug. 20, 1928	16.4	
1916	July 19, 1916	28.0		1929	Mar. 3, 1929	14.1	
				1930	Oct. 6, 1929	18.0	
1926	Mar. 13, 1926	13.5		1931a/	Dec. 19, 1930	12.2	
1927	Jan. 15, 1927	12.0					

a No record Jan. 1 to Sept. 30.

1485. Broad River near Chimney Rock, N. C.

Location.--Lat 35°25'29", long 82°10'54", 1,000 ft downstream from Lake Lure Dam, 1.5 miles downstream from Buffalo Creek, and 3 miles east of Chimney Rock, Rutherford County.

Drainage area.--97 sq mi, approximately.

Gage.--Recording. Altitude of gage is 860 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended on basis of computation of peak flows over dam at 17,400 and 26,000 cfs.

Remarks.--Large diurnal fluctuation and complete regulation for low flow by powerplant at Lake Lure Dam; peak discharges may be materially affected. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Aug. 15, 1928	16.8	26,000	1944	Aug. 1-2, 1944	2.25	652
1929	Sept. 26, 1929	7.65	8,800	1945	Sept. 18, 1945	4.78	3,850
1930	Oct. 1, 1929	6.65	7,000				
				1946	Jan. 6, 1946	3.53	1,940
1931	Apr. 22, 1931	2.27	644	1947	June 14, 1947	2.26	609
1932	Aug. 20, 1932	2.31	674	1948	July 11, 1948	5.46	5,080
1933	Oct. 16, 1932	7.68	8,980	1949	Aug. 28, 1949	10.30	13,700
1934	Mar. 4, 1934	2.60	900	1950	Sept. 8, 1950	6.64	7,000
1935	Jan. 9, 1935	4.70	3,680				
				1951	Dec. 7, 1950	5.25	4,640
1936	Apr. 6, 1936	4.70	3,680	1952	Feb. 3, 1952	6.30	6,480
1937	Oct. 16, 1936	11.2	15,400	1953	Mar. 23, 1953	3.05	1,300
1938	Oct. 19, 1937	6.30	6,480	1954	Jan. 22, 1954	4.20	2,840
1939	Aug. 18, 1939	5.42	4,900	1955	Sept. 2, 1955	2.26	574
1940	Aug. 13, 1940	12.2	17,300				
				1956	Feb. 25, 1956	2.10	475
1941	July 6-7, 1941	2.22	630	1957	Apr. 5, 1957	5.17	4,500
1942	May 20, 1942	4.34	3,080	1958	Apr. 28-29, 1958	2.45	710
1943	Dec. 29, 1942	3.88	2,400				

1490. Cove Creek near Lake Lure, N. C.

Location.--Lat 35°25'24", long 82°06'42", on left bank 40 ft upstream from bridge on U.S. Highways 64 and 74, 1 mile upstream from mouth, and 5 miles east of town of Lake Lure, Rutherford County.

Drainage area.--77.0 sq mi.

Gage.--Nonrecording Jan. 3, 1951, to Dec. 19, 1954; recording thereafter. Datum of gage is 815.4 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 900 cfs.

SANTEE RIVER BASIN

Peak stages and discharges of Cove Creek near Lake Lure, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	-	a23	-	1956	Apr. 16, 1956	6.26	1,060
1952	Dec. 4, 1951	8.8	2,080	1957	Apr. 2, 1957	7.05	1,270
	Dec. 21, 1951	6.0	1,100		Apr. 5, 1957	13.65	4,080
	Feb. 3, 1952	12.7	3,760		June 5, 1957	18.53	7,050
	Mar. 11, 1952	14.0	4,400	1958	Dec. 20, 1957	5.94	945
	Mar. 23, 1952	8.9	2,120		Jan. 24, 1958	6.48	1,120
1953	Feb. 21, 1953	6.6	1,290	Apr. 6, 1958	7.05	1,270	
	Mar. 23, 1953	8.0	1,770	Apr. 28, 1958	5.87	945	
1954	Jan. 22, 1954	11.5	3,180	1959	Dec. 28, 1958	8.03	1,620
	Feb. 21, 1954	7.9	1,730		Apr. 12, 1959	7.04	1,270
1955	Apr. 14, 1955	10.28	2,510		Aug. 30, 1959	6.50	1,120
				Sept. 30, 1959	9.59	2,230	

a From records of North Carolina State Highway Commission; annual peak only.

1500. Green River near Mill Spring, N. C.

Location.--Lat 35°20'10", long 82°04'55", on right bank at abandoned ford 1.5 miles northeast of Pea Ridge Church, 2 miles downstream from Walnut Creek, 5.2 miles northeast of Mill Spring, Polk County, and 9 miles downstream from Turner Shoals Dam.

Drainage area.--174 sq mi.

Gage.--Recording. Altitude of gage 770 ft (by barometer).

Stage-discharge relation.--Not defined.

Historical data.--Maximum stage known is that of July 1916.

Remarks.--Considerable regulation by Lake Summit and Lake Adger (combined usable storage, 338,875,000 cu ft). Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	a24.2	-	1947	June 14, 1947	6.24	-
1940	Aug. 13, 1940	22.15	-	1948	Oct. 28, 1947	7.74	-
				1949	Aug. 28, 1949	16.88	-
				1950	Oct. 7, 1949	13.16	-
				1951	Dec. 7, 1950	11.29	-
1941	July 16, 1941	4.95	-	1952	Mar. 11, 1952	12.31	-
1942	May 16, 1942	13.97	-	1953	Feb. 21, 1953	7.43	-
1943	Dec. 29, 1942	10.06	-	1954	Jan. 22, 1954	12.71	-
1944	Mar. 29, 1944	6.07	-				
1945	Sept. 18, 1945	12.47	-				
1946	Jan. 7, 1946	9.70	-				

a From flood crest reference mark placed by local resident.

1504.2. Camp Creek near Rutherfordton, N. C.

Location.--Lat 35°28', long 81°54', at bridge 1 mile upstream from Little Camp Creek and 7 miles northeast of Rutherfordton, Rutherford County.

Drainage area.--13.1 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Not defined.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	February 1955	14.40	-	1958	Apr. 6, 1958	17.77	-
1956	Apr. 15, 1956	15.45	-	1959	Sept. 30, 1959	16.37	-
1957	June 4, 1957	20.25	-				

1510. Second Broad River at Cliffside, N. C.

Location.--Lat 35°14'08", long 81°45'57", on left bank a quarter of a mile downstream from dam at Cliffside Mills, at Cliffside, Rutherford County, and 1½ miles upstream from mouth.

Drainage area.--211 sq mi.

Gage.--Recording. Altitude of gage is 670 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 9,100 cfs and extended on basis of computation of peak flow over dam a quarter of a mile upstream at 15,000 cfs.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 19, 1926	4.74	a3,860	1943	Jan. 28, 1943	5.43	3,900
1927	Feb. 24, 1927	2.89	1,450		July 11, 1943	4.67	3,170
1928	Aug. 11, 1928	8.85	7,770	1944	Mar. 20, 1944	4.62	3,060
	Aug. 16, 1928	17.26	14,500		Mar. 30, 1944	4.86	3,390
1929	Mar. 1, 1929	4.45	3,330	1945	July 15, 1945	4.95	3,500
	Sept. 26, 1929	8.55	7,590		Sept. 17, 1945	12.53	10,600
1930	Oct. 2, 1929	12.60	10,800	1946	Jan. 7, 1946	7.83	6,400
1931	Apr. 2, 1931	3.73	2,500		Feb. 11, 1946	6.30	4,800
1932	Jan. 1, 1932	4.45	3,220	1947	June 14, 1947	9.02	a7,500
	Aug. 3, 1932	5.28	4,300	1948	Feb. 13, 1948	5.03	3,600
1933	Oct. 17, 1932	6.97	6,100		Aug. 4, 1948	4.72	3,170
	Nov. 1, 1932	5.70	4,750	1949	Nov. 29, 1948	6.64	4,190
1934	Mar. 4, 1934	4.42	3,220		Aug. 29, 1949	8.66	6,340
	Mar. 28, 1934	4.52	3,340	1950	Nov. 2, 1949	4.43	2,510
	June 8, 1934	7.62	6,670		June 1, 1950	4.43	2,510
1935	Oct. 11, 1934	5.29	4,300	1951	Dec. 8, 1950	7.77	5,400
1936	Apr. 7, 1936	10.10	a8,490	1952	Dec. 22, 1951	5.73	3,510
1937	Oct. 9, 1936	4.92	3,390		Mar. 4, 1952	7.87	5,480
	Oct. 17, 1936	5.35	3,900		Mar. 12, 1952	6.92	4,560
	Dec. 31, 1936	4.72	3,060		Mar. 24, 1952	5.74	3,510
	Jan. 3, 1937	5.73	4,100		Aug. 6, 1952	6.75	4,470
	Jan. 20, 1937	6.12	4,600	1953	Feb. 22, 1953	5.22	3,070
1938	Oct. 20, 1937	9.5	7,950	1954	Jan. 23, 1954	8.93	6,670
	May 30, 1938	6.30	4,800	1955	Feb. 7, 1955	4.14	2,160
1939	Aug. 18, 1939	4.57	3,060	1956	Apr. 16, 1956	4.52	2,380
1940	Aug. 14, 1940	17.93	15,000	1957	Feb. 1, 1957	5.40	3,190
	Aug. 30, 1940	4.63	3,060		Apr. 6, 1957	6.83	4,540
1941	July 20, 1941	5.95	4,500		June 6, 1957	8.52	6,120
1942	Feb. 18, 1942	4.63	3,060	1958	Apr. 7, 1958	6.34	4,000
	June 10, 1942	5.07	3,600		Apr. 28, 1958	6.02	3,730
	Sept. 7, 1942	4.88	3,390	1959	Dec. 29, 1958	5.83	3,640
1943	Dec. 30, 1942	5.67	4,200				

a Annual peak only.

SANTEE RIVER BASIN

1515. Broad River near Boiling Springs, N. C.

Location.--Lat 35°12'40", long 81°41'50", on right bank half a mile upstream from Sandy Run Creek, 3 miles downstream from Second Broad River, and 3½ miles southwest of Boiling Springs, Cleveland County.

Drainage area.--864 sq mi.

Gage.--Recording. Prior to July 20, 1934, at site 500 ft upstream at datum 1 ft higher. Datum of gage is 639.92 ft above mean sea level (Duke Power Co. bench mark).

Stage-discharge relation.--Defined at former site by current-meter measurements below 28,000 cfs and extended above by logarithmic plotting. Rating at present site defined by current-meter measurements.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 18, 1926	8.53	12,400	1942	May 21, 1942 Sept. 7, 1942	8.45 8.09	10,000 9,400
1927	Apr. 19, 1927	6.25	7,550	1943	Dec. 30, 1942 Jan. 28, 1943 July 10, 1943	10.05 11.60 8.39	13,600 17,600 10,000
1928	Aug. 11, 1928 Aug. 16, 1928 Sept. 6, 1928	13.2 24.3 7.61	23,900 73,300 10,100	1944	Mar. 29, 1944	9.16	all,800
1929	Feb. 28, 1929 Mar. 5, 1929 Sept. 26, 1929	8.12 7.42 15.40	11,100 9,690 24,500	1945	July 15, 1945 Sept. 17, 1945	8.52 16.30	10,400 32,300
1930	Oct. 2, 1929 Oct. 22, 1929	17.25 7.14	35,900 9,090	1946	Jan. 7, 1946 Feb. 10, 1946	13.35 11.15	22,700 16,500
1931	Apr. 1, 1931	5.13	5,790	1947	Jan. 20, 1947 June 14 or 15, 1947	8.40 12.47	10,200 20,000
1932	Dec. 14, 1931 Jan. 1, 1932	7.24 7.61	9,290 10,100	1948	Feb. 13, 1948 Aug. 4, 1948	8.20 8.74	9,800 10,800
1933	Oct. 17, 1932 Nov. 1, 1932	13.04 10.4	23,300 16,400	1949	Nov. 28, 1948 Aug. 29, 1949	11.37 12.65	17,000 20,300
1934	Mar. 4, 1934 Mar. 28, 1934 June 8, 1934	7.08 8.05 7.22	9,090 10,900 9,290	1950	Oct. 7, 1949 Sept. 9, 1950	10.10 8.08	13,800 9,770
1935	Oct. 11, 1934 Jan. 10, 1935	9.83 10.33	13,100 14,300	1951	Dec. 8, 1950	10.88	15,800
1936	Jan. 3, 1936 Jan. 6, 1936 Jan. 20, 1936 Mar. 28, 1936 Apr. 2, 1936 Apr. 6, 1936	10.30 9.69 11.95 9.57 11.09 14.75	14,300 12,900 18,500 12,700 16,200 26,000	1952	Dec. 21, 1951 Feb. 4, 1952 Mar. 4, 1952 Mar. 11, 1952 Mar. 23, 1952 Aug. 6, 1952	9.60 8.21 11.60 10.99 10.26 8.10	12,700 9,820 17,600 16,000 14,300 9,650
1937	Oct. 9, 1936 Oct. 17, 1936 Dec. 31, 1936 Jan. 3, 1937 Jan. 19, 1937 Sept. 8, 1937	10.68 14.85 10.06 11.99 10.33 8.32	15,300 26,000 13,800 18,500 14,300 9,800	1953	Feb. 21, 1953	8.62	10,600
1938	Oct. 20, 1937 May 30, 1938	13.94 8.63	23,500 10,400	1954	Jan. 22, 1954	12.72	20,600
1939	Aug. 19, 1939	9.10	11,500	1955	Feb. 7, 1955	6.55	7,160
1940	Aug. 14, 1940	22.1	a60,400	1956	Apr. 16, 1956	8.23	9,820
1941	-	-	(b)	1957	Feb. 1, 1957 Apr. 6, 1957 June 6, 1957 Sept. 18, 1957	7.87 11.02 9.70 7.85	9,600 16,900 13,600 9,400
1942	Feb. 17, 1942 Mar. 9, 1942 May 16, 1942	9.89 7.90 8.42	13,400 9,010 10,000	1958	Nov. 19, 1957 Apr. 6, 1958 Apr. 28, 1958	10.37 9.06 10.32	15,400 12,200 15,100
				1959	Dec. 29, 1958	9.88	14,100

a Annual peak only.

b Unknown, occurred during period of no gage-height record.

1524.2. Big Knob Creek near Fallston, N. C.

Location.--Lat 35°29'34", long 81°32'25", at bridge 2½ miles upstream from mouth and 5 miles north of Fallston, Cleveland County.

Drainage area.--16.4 sq mi.

Gage.--Crest-stage gage. Datum of gage is 868.14 ft above mean sea level, datum of 1926, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	August 1953	9.84	995	1957	June 5, 1957	10.06	1,060
1954	-	-	(a)	1958	Apr. 6, 1958	9.48	880
1955	Apr. 14, 1955	7.90	412	1959	Sept. 30, 1959	10.42	1,170
1956	Apr. 16, 1956	8.49	570				

a Peak stage below gage; discharge less than 1,000 cfs.

1525. First Broad River near Lawndale, N. C.

Location.--Lat 35°22'50", long 81°32'40", on left bank 0.2 mile upstream from Shoal Rock Creek, 0.4 mile downstream from highway bridge at Double Shoals, and 2½ miles southeast of Lawndale, Cleveland County.

Drainage area.--198 sq mi.

Gage.--Recording. Datum of gage is 735.94 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above on basis of records for nearby streams.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 1916	a37.8	-	1949	Aug. 29, 1949	20.78	10,200
				1950	Oct. 7, 1949	22.44	11,300
1940	Aug. 14, 1940	37.8	32,500	1951	Dec. 7, 1950	12.77	5,390
1941	July 16, 1941	21.68	12,400	1952	Mar. 4, 1952	20.41	9,880
1942	Aug. 17, 1942	18.20	9,170	1953	Sept. 4, 1953	15.48	6,880
1943	Jan. 28, 1943	15.48	7,250	1954	Jan. 23, 1954	18.96	8,900
1944	Mar. 20, 1944	11.87	4,840	1955	Feb. 7, 1955	8.43	3,150
1945	Sept. 18, 1945	19.87	9,530				
1946	Jan. 7, 1946	20.29	9,810	1956	Apr. 16, 1956	9.22	3,550
1947	June 14, 1947	17.43	8,580	1957	Jan. 31, 1957	15.05	6,600
1948	Feb. 12, 1948	12.51	5,320	1958	Apr. 28, 1958	15.15	6,320
				1959	Dec. 28, 1958	14.84	6,080

a From floodmarks established by local resident.

1526.1. Sugar Branch near Boiling Springs, N. C.

Location.--Lat 35°15'00", long 81°37'20", at culvert on State Highway 150, half a mile upstream from mouth and 2½ miles east of Boiling Springs, Cleveland County.

Drainage area.--1.42 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by culvert measurements.

Remarks.--Only annual peaks are shown.

SANTEE RIVER BASIN

Peak stages and discharges of Sugar Branch near Boiling Springs, N. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	January 1954	22.44	420	1957	Sept.17, 1957	22.30	398
1955	July 1955	24.80	820	1958	Nov. 17, 1957	25.19	902
				1959	Sept.30, 1959	24.45	760
1956	Oct. 1, 1955	23.85	640				

1535. Broad River near Gaffney, S. C.

Location.--Lat 35°05'20", long 81°34'20", on right bank at downstream side of bridge on U.S. Highway 29A, 0.3 mile upstream from Cherokee Creek, 4.4 miles downstream from Gaston Shoals Dam, and 4.5 miles east of Gaffney, Cherokee County.

Drainage area.--1,490 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 1, 1900; recording after Dec. 19, 1938. At sites 1.1 miles upstream at different datums prior to Jan. 1, 1900. Datum of gage is 539.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined prior to 1938. Defined subsequently by discharge measurements below 59,000 cfs and extended on basis of computation of peak flow over Gaston Shoals Dam at 119,000 cfs.

Bankfull stage.--12 ft.

Remarks.--Peaks prior to Jan. 1, 1900, are from graphs based on gage readings. Only annual peak stages are shown prior to 1900. Base for partial-duration series, 16,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Apr. 5, 1897	9.95	-	1949	Nov. 29, 1948	12.47	35,700
1898	Sept. 23, 1898	12.18	-		July 16, 1949	10.05	21,400
1899	Mar. 19, 1899	12.70	-		Aug. 29, 1949	12.38	35,000
1939	Mar. 1, 1939	10.09	19,300	1950	Oct. 7, 1949	11.70	31,000
	Aug. 18, 1939	10.51	21,000		Oct. 31, 1949	9.09	17,200
1940	Aug. 14, 1940	19.78	119,000	1951	Dec. 8, 1950	10.47	23,900
1941	July 17, 1941	11.43	26,000	1952	Dec. 21, 1951	11.45	29,000
1942	Feb. 17, 1942	10.70	21,800		Feb. 4, 1952	9.17	18,100
	Aug. 17, 1942	9.49	16,900		Mar. 4, 1952	13.52	44,200
	Sept. 7, 1942	9.31	16,200		Mar. 12, 1952	11.30	28,400
1943	Dec. 30, 1942	10.31	20,100		Mar. 23, 1952	11.37	27,800
	Jan. 28, 1943	12.39	38,400		Aug. 7, 1952	10.04	21,400
	Apr. 20, 1943	8.74	16,300	1953	Feb. 21, 1953	10.13	21,900
	July 10, 1943	11.88	34,700	1954	Jan. 23, 1954	13.24	41,000
1944	Mar. 20, 1944	9.82	21,700	1955	Feb. 7, 1955	8.55	14,700
	Mar. 30, 1944	9.44	19,600	1956	Apr. 16, 1956	10.23	22,400
	Apr. 12, 1944	9.24	18,700	1957	Feb. 1, 1957	9.76	20,400
	Sept. 30, 1944	9.69	21,200		Apr. 6, 1957	10.40	23,400
1945	Sept. 18, 1945	15.35	61,600		June 6, 1957	9.62	19,500
1946	Jan. 7, 1946	13.38	43,400	1958	Nov. 19, 1957	11.71	31,000
	Feb. 10, 1946	12.80	38,600		Nov. 26, 1957	9.50	18,600
1947	Jan. 20, 1947	10.22	22,400		Jan. 25, 1958	8.97	16,800
	June 15, 1947	11.09	27,800		Apr. 7, 1958	10.26	22,900
1948	Nov. 3, 1947	9.29	18,100		Apr. 28, 1958	12.72	37,900
	Feb. 13, 1948	10.65	23,900	1959	Dec. 29, 1958	11.30	28,400
	Aug. 4, 1948	10.80	25,600		Sept. 30, 1959	12.77	38,600

1545. North Pacolet River at Fingerville, S. C.

Location.--Lat 35°07', long 81°59', on right bank at McMillin Mill, about 400 ft downstream from Obed Creek and 1 mile south of Fingerville, Spartanburg County.

Drainage area.--116 sq mi.

Gage.--Recording. At site about 400 ft downstream at datum 5.60 ft higher prior to Nov. 24, 1933. Datum of gage is 715.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs at former site and extended above on basis of records for Pacolet River near Fingerville. Defined by current-meter measurements below 3,900 cfs at present site and extended on basis of computation of flow over dam 2 miles above station at 12,500 cfs.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Dec. 7, 1930	3.95	872	1944	Mar. 20, 1944	9.38	1,620
					Mar. 29, 1944	9.70	1,620
1932	Dec. 15, 1931	6.95	2,120	1945	July 15, 1945	11.68	2,840
	Aug. 5, 1932	5.50	1,750		Sept. 17, 1945	13.50	3,780
	Aug. 8, 1932	5.30	1,660	1946	Dec. 5, 1945	8.77	1,650
1933	Oct. 17, 1932	15.73	6,820		Jan. 7, 1946	17.12	5,040
	Nov. 1, 1932	8.30	2,770		Feb. 11, 1946	13.32	3,580
	Dec. 26, 1932	6.29	1,980	1947	Jan. 21, 1947	9.27	2,000
1934	Mar. 4, 1934	12.00	2,100		June 15, 1947	12.30	3,110
	Mar. 28, 1934	11.41	1,860	1948	Feb. 13, 1948	7.30	1,370
	June 4, 1934	11.22	1,900	1949	Nov. 29, 1948	13.74	3,780
1935	July 19, 1935	9.77	1,760		Aug. 29, 1949	11.35	2,700
1936	Jan. 3, 1936	14.01	3,780	1950	Oct. 7, 1949	16.70	5,150
	Jan. 7, 1936	10.66	2,070	1951	Dec. 8, 1950	9.91	2,320
	Jan. 20, 1936	12.18	2,700	1952	Dec. 22, 1951	10.72	2,800
	Feb. 5, 1936	9.77	1,640		Feb. 4, 1952	8.25	1,800
	Apr. 2, 1936	13.88	3,460		Mar. 4, 1952	12.69	3,880
	Apr. 7, 1936	19.77	6,120		Mar. 11, 1952	12.88	3,380
1937	Oct. 1, 1936	9.52	1,680		Mar. 23, 1952	13.81	3,830
	Oct. 9, 1936	14.73	3,820	1953	Feb. 21, 1953	10.01	2,360
	Oct. 17, 1936	21.23	7,290	1954	Jan. 23, 1954	15.96	5,040
	Dec. 29, 1936	9.50	1,800	1955	Feb. 7, 1955	8.28	1,840
	Jan. 1, 1937	12.01	2,610	1956	Apr. 16, 1956	7.88	1,690
	Jan. 3, 1937	12.48	2,880	1957	Apr. 6, 1957	10.28	2,620
	Jan. 20, 1937	12.17	2,700		Sept. 18, 1957	8.38	1,890
	July 29, 1937	12.20	2,840	1958	Nov. 19, 1957	7.80	1,690
	Sept. 7, 1937	12.84	3,060		Apr. 7, 1958	8.95	2,130
1938	Oct. 19, 1937	17.48	5,400		Apr. 29, 1958	12.25	3,480
1939	Feb. 4, 1939	9.47	1,920		Aug. 26, 1958	7.70	1,610
	Aug. 19, 1939	10.65	2,480	1959	Dec. 29, 1958	9.12	2,180
1940	Aug. 14, 1940	27.13	12,500		May 26, 1959	18.64	6,680
1941	July 17, 1941	8.51	1,540				
1942	Feb. 17, 1942	11.35	2,700				
	Sept. 7, 1942	9.38	2,080				
1943	Dec. 30, 1942	10.01	2,120				
	Jan. 28, 1943	10.16	2,200				

a Occurred on Oct. 11, 1934.

1555. Pacolet River near Fingerville, S. C.

Location--Lat 35°07', long 81°58', on right bank 100 ft upstream from highway bridge, a quarter of a mile downstream from confluence of North Pacolet and South Pacolet Rivers, and 2½ miles southeast of Fingerville, Spartanburg County.

Drainage area--212 sq mi.

Gage--Recording. Datum of gage is 706.33 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 9,600 cfs and extended by velocity-area studies.

Historical data--Flood of June 1903 is maximum stage known.

Remarks--Peaks affected by storage in South Pacolet River Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 1903	46	-	1946	Jan. 7, 1946	11.90	9,400
1931	Dec. 6, 1930	2.68	1,020	1947	June 15, 1947	7.99	5,250
1932	Dec. 15, 1931	6.45	3,810	1948	Aug. 5, 1948	5.62	3,160
1933	Oct. 17, 1932	13.31	11,000	1949	Nov. 29, 1948	9.66	6,980
1934	Mar. 4, 1934	6.39	3,810	1950	Oct. 7, 1949	9.05	6,250
1935	Oct. 11, 1934	4.76	2,510	1951	Dec. 8, 1950	6.85	4,120
1936	Apr. 7, 1936	12.53	10,100	1952	Mar. 24, 1952	9.46	6,760
1937	Oct. 17, 1936	13.63	11,300	1953	Feb. 21, 1953	6.27	3,710
1938	Oct. 19, 1937	12.73	10,300	1954	Jan. 23, 1954	10.38	7,750
1939	Aug. 19, 1939	7.09	4,390	1955	Feb. 7, May 23, 1955	a5.10	2,810
1940	Aug. 14, 1940	22.43	22,800	1956	Apr. 17, 1956	5.55	3,160
1941	July 17, 1941	3.63	1,760	1957	Apr. 6, 1957	7.33	4,570
1942	Feb. 17, 1942	9.54	6,760	1958	Apr. 29, 1958	8.20	5,450
1943	Jan. 28, 1943	6.84	4,120	1959	Mar. 26, 1959	13.82	11,600
1944	Mar. 20, 1944	6.50	3,870				
1945	Sept. 17, 1945	8.56	5,850				

a Occurred on Feb. 7, 1955.

1560. Pacolet River near Clifton, S. C.

Location--Lat 34°58'10", long 81°48'05", on left bank 1.2 miles downstream from dam at Clifton Mill 2, 1.3 miles southeast of Clifton, Spartanburg County, 2.7 miles upstream from Lawson Fork, and 2.7 miles northeast of Glendale.

Drainage area--320 sq mi.

Gage--Recording. Altitude of gage is 540 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 13,000 cfs and extended on basis of computation of peak flow over dam at Clifton Mill 2 at 26,800 cfs.

Remarks--Peaks affected by storage in reservoirs above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	21.19	26,800	1950	Oct. 7, 1949	14.64	16,300
1941	July 11, 1941	7.74	5,620	1951	Dec. 7, 1950	7.11	6,100
1942	Aug. 18, 1942	9.76	8,640	1952	Mar. 24, 1952	11.16	11,400
1943	Jan. 28, 1943	11.10	9,300	1953	Feb. 21, 1953	6.12	4,800
1944	Mar. 20, 1944	8.08	7,220	1954	Jan. 22, 1954	9.14	8,520
1945	Sept. 17, 1945	14.16	12,000	1955	Feb. 6, 1955	5.35	4,020
1946	Jan. 7, 1946	12.69	12,900	1956	Apr. 16, 1956	9.63	9,170
1947	Jan. 20, 1947	6.95	5,860	1957	Aug. 14, 1957	7.51	6,480
1948	Aug. 4, 1948	6.05	4,690	1958	Nov. 19, 1957	12.06	12,600
1949	Nov. 28, 1948	9.62	9,170	1959	May 26, 1959	12.11	12,600

156b Broad River near Carlisle, S. C.

Location.--Lat 34°36', long 81°25', at bridge on State Highway 72, 2 miles upstream from Sandy River, 2 miles downstream from Seaboard Air Line Railroad bridge, 2½ miles east of Carlisle, Union County, and 5 miles downstream from Neals Shoals Dam.

Drainage area.--2,790 sq mi, approximately.

Gage.--Recording. Datum of gage is 290.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 52,000 cfs and extended above on basis of computation of peak flow over Neals Shoals Dam at 103,000 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 25,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1939	Mar. 1, 1939	16.27	34,900	1949	Aug. 29, 1949	21.24	54,200	
	Aug. 19, 1939	14.94	30,500		1950	Oct. 8, 1949	19.32	44,200
1940	Aug. 15, 1940	29.41	103,000	1951		Dec. 9, 1950	13.65	27,000
1941	July 8, 1941	14.65	29,600	1952	Dec. 22, 1951	17.40	38,000	
	July 18, 1941	17.06	37,600		Mar. 5, 1952	22.43	57,700	
1942	Feb. 18, 1942	18.42	42,200		Mar. 12, 1952	17.11	37,100	
					Mar. 25, 1952	21.66	54,200	
1943	Dec. 30, 1942	14.08	28,100	1953	Feb. 22, 1953	15.77	33,200	
	Jan. 19, 1943	15.34	31,700		Mar. 24, 1953	14.35	29,200	
	Jan. 29, 1943	18.96	44,500	1954	Jan. 17, 1954	14.15	28,400	
	July 10, 1943	13.10	25,100		Jan. 24, 1954	20.63	49,200	
1944	Mar. 20, 1944	19.58	46,900	1955	Feb. 8, 1955	13.27	26,100	
	Mar. 30, 1944	15.40	32,000		Apr. 15, 1955	13.79	27,500	
	Apr. 12, 1944	13.20	25,400	1956	Mar. 17, 1956	14.03	28,100	
1945	Sept. 19, 1945	25.72	78,500		Apr. 17, 1956	14.99	30,900	
	1946	Dec. 26, 1945	13.48	26,300	1957	Apr. 7, 1957	13.24	25,900
		Jan. 8, 1946	20.11	49,200		1958	Nov. 20, 1957	18.06	40,100
Feb. 11, 1946		19.75	47,800	Nov. 26, 1957			13.01	25,300
1947	Jan. 21, 1947	17.21	37,900	Apr. 7, 1958	15.16	31,500		
				Apr. 29, 1958	20.12	48,000		
1948	Nov. 4, 1947	14.54	29,300	1959	Dec. 30, 1958	14.21	28,700	
	Feb. 14, 1948	16.20	34,600					
	Aug. 5, 1948	14.33	28,700					
1949	Nov. 29, 1948	22.81	62,200					

1570. North Tyger River near Fairmont, S. C.

Location.--Lat 34°55'45", long 82°02'40", on left bank 80 ft downstream from Frey Creek and 2.2 miles north of Fairmont, Spartanburg County.

Drainage area.--44 sq mi, approximately.

Gage.--Recording. Altitude of gage is 680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended by logarithmic plotting.

Remarks.--Base for partial-duration series, 700 cfs.

SANTEE RIVER BASIN

Peak stages and discharges of North Tyger River near Fairmont, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 7, 1950	8.38	1,510	1956	Feb. 20, 1956	5.15	752
1952	Dec. 21, 1951	10.55	2,280	Mar. 16, 1956	6.05	860	
	Mar. 4, 1952	10.56	2,280	Apr. 16, 1956	9.10	1,790	
	Mar. 11, 1952	9.39	1,860	May 4, 1956	5.42	785	
	Mar. 23, 1952	7.95	1,380	Sept. 26, 1956	7.43	1,230	
	Apr. 26, 1952	6.30	910	1957	Apr. 5, 1957	3.06	466
1953	Feb. 21, 1953	4.91	722	1958	Nov. 19, 1957	8.18	1,480
	June 11, 1953	4.46	712	Apr. 28, 1958	5.15	742	
1954	Jan. 17, 1954	4.78	702	1959	May 26, 1959	13.58	3,610
	Jan. 22 or 23, 1954	7.15	1,170		June 1, 1959	8.85	1,650
1955	May 22, 1955	8.68	1,650		July 11, 1959	8.11	1,410
					July 18, 1959	4.56	722
1956	Feb. 6, 1956	5.83	818	Sept. 30, 1959	6.78	1,020	

1575. Middle Tyger River at Lyman, S. C.

Location.--Lat 34°56'35", long 82°08'00", on left bank 200 ft upstream from bridge on State Highway 292 at Lyman, Spartanburg County, 600 ft downstream from Southern Railway bridge, and 0.8 mile northeast of Duncan.

Drainage area.--68.3 sq mi.

Gage.--Recording. Datum of gage is 776.05 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended on basis of computation of peak flow over dam half a mile downstream at 4,800 cfs.

Remarks.--Peaks since September 1955 affected by storage in reservoir 3 miles above station. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 4, 1939	6.73	1,760	1950	Oct. 7, 1949	6.29	1,580
	Aug. 18, 1939	9.28	2,730		Nov. 2, 1949	5.58	1,260
1940	Aug. 14, 1940	16.16	4,800	1951	Dec. 8, 1950	6.53	1,660
1941	July 18, 1941	4.89	945	1952	Dec. 21, 1951	10.11	2,980
1942	Feb. 17, 1942	9.71	2,860		Feb. 4, 1952	5.04	1,020
					Mar. 4, 1952	10.04	2,950
1943	Jan. 19, 1943	6.15	1,530	Mar. 11, 1952	9.91	2,920	
	Jan. 28, 1943	8.34	2,380	Mar. 23, 1952	10.42	3,070	
1944	Mar. 20, 1944	7.64	2,120	Apr. 26, 1952	6.60	1,710	
	Mar. 29, 1944	6.50	1,660	1953	Feb. 21, 1953	6.92	1,840
1945	July 16, 1945	8.08	2,310	1954	Jan. 17, 1954	5.35	1,180
	Sept. 18, 1945	5.23	1,140		Jan. 23, 1954	8.74	2,520
1946	Dec. 26, 1945	6.05	1,440		Apr. 29, 1954	7.30	2,000
	Jan. 7, 1946	12.39	3,670	1955	Feb. 7, 1955	5.96	1,440
	Feb. 11, 1946	9.98	2,950		May 22, 1955	5.44	1,220
	May 4, 1946	5.31	1,140	1956	Apr. 16, 1956	7.67	2,160
	July 15, 1946	5.64	1,260		1957	Feb. 2, 1957	5.21
1947	Jan. 20, 1947	6.91	1,840	Apr. 6, 1957		6.58	1,710
	June 15, 1947	6.06	1,480	1958	Nov. 20, 1957	5.96	1,440
1948	July 16, 1948	5.48	1,220		Apr. 29, 1958	7.20	1,960
	Aug. 5, 1948	11.16	3,310		July 21, 1958	5.90	1,400
1949	Nov. 29, 1948	10.78	3,190	1959	May 26, 1959	10.36	3,070
	Jan. 6, 1949	5.15	1,100		June 1, 1959	6.32	1,580
	Aug. 17, 1949	9.45	2,760		Sept. 30, 1959	5.68	1,300
	Aug. 29, 1949	6.61	1,710				

1580. North Tyger River near Moore, S. C.
(Published as "North Tyger River" prior to 1936)

Location.--Lat 34°48'10", long 81°57'57", on right bank at Ott Shoals 2.0 miles upstream from Wards Creek, 2.6 miles southeast of Moore, Spartanburg County, and 5.3 miles upstream from confluence with South Tyger River.

Drainage area.--162 sq mi.

Gage.--Recording. Datum of gage is 564.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 7,800 cfs and extended by velocity-area studies.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934a/	June 5, 1934	3.26	1,820	1946	Jan. 8, 1946	5.21	5,760
1935	Aug. 25, 1935	3.43	2,010		Feb. 11, 1946	4.40	3,920
					May 5, 1946	3.29	1,950
1936	Jan. 4, 1936	4.67	4,800	1947	Jan. 21, 1947	3.46	2,160
	Jan. 7, 1936	3.92	3,120				
	Jan. 19, 1936	3.31	1,970	1948	Aug. 6, 1948	4.27	3,610
	Mar. 28, 1936	3.34	1,960				
	Apr. 2, 1936	4.00	3,120	1949	Nov. 29, 1948	4.78	4,800
	Apr. 7, 1936	6.15	8,640		Aug. 18, 1949	4.08	3,310
	July 31, 1936	3.59	2,400				
	Sept. 4, 1936	4.08	3,310	1950	Oct. 7, 1949	6.01	8,120
1937	Oct. 1, 1936	3.53	2,320	1951	Dec. 8, 1950	3.28	1,950
	Oct. 9, 1936	4.47	4,020				
	Oct. 16, 1936	5.68	7,160	1952	Dec. 22, 1951	4.32	3,710
	Jan. 1, 1937	3.77	2,560		Mar. 5, 1952	4.22	3,510
	Jan. 3, 1937	4.92	5,020		Mar. 12, 1952	4.04	3,220
	Jan. 20, 1937	3.87	2,840		Mar. 24, 1952	4.89	5,030
	Aug. 24, 1937	3.27	1,880				
	Sept. 9, 1937	3.74	2,660	1953	Feb. 22, 1953	3.43	2,160
1938	Oct. 5, 1937	3.65	2,400	1954	Jan. 17, 1954	3.22	1,820
	Oct. 20, 1937	5.54	6,680		Jan. 23, 1954	4.19	3,510
1939	Aug. 19, 1939	3.52	2,240	1955	May 23, 1955	3.34	2,020
1940	Aug. 14, 1940	7.15	12,300	1956	Mar. 17, 1956	3.26	1,880
1941	July 17, 1941	2.53	1,080		Apr. 16, 1956	3.81	2,750
1942	Feb. 18, 1942	4.23	3,610	1957	Apr. 7, 1957	2.92	1,460
1943	Jan. 19, 1943	3.77	2,660	1958	Nov. 19, 1957	3.80	2,750
	Jan. 29, 1943	4.48	4,130		Apr. 30, 1958	3.76	2,750
1944	Mar. 21, 1944	3.89	2,930	1959	May 26, 1959	5.30	6,020
	Mar. 30, 1944	3.69	2,570		June 2, 1959	3.64	2,480
	Apr. 12, 1944	3.31	1,950		Sept. 30, 1959	3.29	1,950
1945	Sept. 18, 1945	4.00	3,120				

a No record Oct. 1 to Mar. 31.

1585. South Tyger River near Reidville, S. C.
(Published as "South Tyger River" prior to 1936)

Location.--Lat 34°52'35", long 82°05'10", on left bank 0.4 mile upstream from bridge on State Highway 296, 1.2 miles downstream from Berry Shoals, 1.8 miles northeast of Reidville, Spartanburg County, and 4 miles upstream from Bens Creek.

Drainage area.--106 sq mi.

Gage.--Recording. Datum of gage is 626.28 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,400 cfs.

SANTEE RIVER BASIN

Peak stages and discharges of South Tyger River near Reidville, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1934a/	Aug. 28, 1934	6.82	2,300	1946	Jan. 7, 1946	9.52	3,760	
1935	July 20, 1935	5.30	1,460		Feb. 11, 1946	6.97	2,390	
	Aug. 24, 1935	11.05	4,150		May 4, 1946	6.40	2,080	
				1947	Jan. 21, 1947	5.29	1,520	
1936	Jan. 4, 1936	8.69	3,220	1948	Aug. 5, 1948	5.06	1,420	
	Jan. 6, 1936	7.06	2,370		1949	Nov. 28, 1948	9.51	3,760
	Jan. 20, 1936	6.19	1,920	Aug. 17, 1949		5.75	1,770	
	Mar. 26, 1936	5.42	1,520	Aug. 29, 1949		5.35	1,570	
	Apr. 3, 1936	6.11	1,920	1950		Oct. 7, 1949	14.23	6,420
	Apr. 6, 1936	13.66	6,080		Nov. 1, 1949	5.20	1,470	
Sept. 3, 1936	5.94	1,770	1951		Dec. 7, 1950	4.88	1,320	
1937	Oct. 1, 1936	7.39		2,610	1952	Dec. 21, 1951	6.97	2,390
	Oct. 9, 1936	6.67		2,220		Mar. 4, 1952	7.41	2,610
	Oct. 16, 1936	9.68		3,880		Mar. 12, 1952	6.01	1,870
	Dec. 31, 1936	6.17		1,970		Mar. 24, 1952	9.76	3,930
	Jan. 3, 1937	8.70	3,320	1953		Feb. 22, 1953	5.44	1,570
Jan. 19, 1937	5.42	1,570	1954		Jan. 22, 1954	7.73	2,780	
1938	Oct. 19, 1937	10.77			4,330	1955	May 23, 1955	6.59	2,190
	1939	Aug. 19, 1939	5.90	1,820	1956		Feb. 20, 1956	5.07
1940		Aug. 13, 1940	12.68	5,510		Apr. 16, 1956	6.82	2,300
	1941	July 19, 1941	4.17	982		Sept. 26, 1956	5.92	1,800
1942		Feb. 18, 1942	7.41	2,610	1957	Apr. 6, 1957	4.28	1,020
	1943	Jan. 28, 1943	7.86	2,880		1958	Nov. 19, 1957	6.35	2,080
May 22, 1943		6.59	2,170	Apr. 29, 1958	5.22		1,450	
1944		Mar. 20, 1944	5.82	1,770	1959		May 26, 1959	4.94	1,320
	Mar. 29, 1944	5.35	1,570					
	July 3, 1944	5.78	1,770					
1945	Sept. 18, 1945	5.19	1,450					

a No record Oct. 1 to Apr. 17.

1590. South Tyger River near Woodruff, S. C.
(Published as "South Tiger River" prior to 1936)

Location.--Lat 34°45'21", long 81°56'19", on left bank at Chesnee Shoals, 0.5 mile upstream from confluence with North Tyger River and $5\frac{1}{4}$ miles east of Woodruff, Spartanburg County.

Drainage area.--174 sq mi.

Gage.--Recording. Datum of gage is 508.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 7,700 cfs and extended by velocity-area studies.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1935	Aug. 25, 1935	4.89	2,260	1939	Feb. 28, 1939	4.82	1,960	
					Aug. 18, 1939	4.78	1,960	
1936	Jan. 4, 1936	5.65	3,160	1940	Aug. 14, 1940	8.18	6,960	
	Jan. 19, 1936	5.08	2,450		1941	Nov. 13, 1940	3.92	1,050
	Mar. 28, 1936	4.68	1,930	1942		Feb. 17, 1942	5.43	2,860
	Apr. 2, 1936	5.54	3,180			June 10, 1942	5.33	2,910
	Apr. 6, 1936	9.78	9,510	1943	Jan. 19, 1943	5.35	2,720	
1937	Oct. 2, 1936	5.00	2,420		Jan. 28, 1943	5.30	3,540	
	Oct. 9, 1936	5.85	3,660		1944	Mar. 20, 1944	5.30	2,640
	Oct. 16, 1936	8.83	8,080					
	Jan. 3, 1937	6.58	4,890					
	Jan. 20, 1937	5.12	2,500					
1938	Oct. 20, 1937	5.85	3,660					

Peak stages and discharges of South Tyger River near Woodruff, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Sept. 18, 1945	5.61	3,020	1952	Mar. 13, 1952	4.77	1,900
1946	Jan. 8, 1946	6.31	4,140	1952	Mar. 24, 1952	6.72	4,740
	Feb. 12, 1946	5.24	2,570		1953	Feb. 23, 1953	4.62	1,800
	May 5, 1946	4.76	1,930	1954		Jan. 16, 1954	5.00	2,350
1947	Jan. 20, 1947	4.79	2,220			Jan. 23, 1954	5.40	2,930
	1948	Mar. 7, 1948	4.27	1,360	1955	May 24, 1955	4.52
1949		Nov. 29, 1948	5.45	2,860	1956	Mar. 16, 1956	4.97
	July 10, 1949	4.75	1,900	Apr. 17, 1956	4.80	2,070	
1950	Oct. 7, 1949	9.25	8,490	1957	Apr. 7, 1957	3.80	950
	1951	Dec. 8, 1950	3.91	1,040	1958	Nov. 19, 1957	5.20	2,640
1952		Dec. 22, 1951	5.44	2,860	Apr. 29, 1958	4.68	1,930
	Mar. 4, 1952	5.81	3,390	1959	May 25, 1959	5.10	2,500

1595. Tyger River near Woodruff, S. C.
(Published as "Tiger River" prior to 1936)

Location.--Lat 34°45'15", long 81°55'30", at Nesbitts Bridge on State Highway 49, 0.5 mile downstream from confluence of North Tyger and South Tyger Rivers and 6½ miles east of Woodruff, Spartanburg County.

Drainage area.--351 sq mi.

Gage.--Recording. Datum of gage is 489.44 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended by logarithmic plotting.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 6, 1903	a20.4	-	1936	Sept. 4, 1936	5.71	4,310
1928	August 1928	20.0	-	1937	Oct. 1, 1936	5.78	4,480
1929	September 1929	14.65	19,600		Oct. 9, 1936	7.68	7,710
					Oct. 16, 1936	11.48	14,700
1930	Oct. 2, 1929	19.1	28,000	Jan. 3, 1937	9.03	10,300	
				Jan. 20, 1937	5.98	5,330	
1931	May 22, 1931	5.05	2,430	Sept. 9, 1937	5.50	4,210	
				1932	Oct. 5, 1937	5.34	3,670
Dec. 4, 1931	5.82	3,980	Oct. 20, 1937		9.30	10,600	
Dec. 15, 1931	5.76	3,980	1939	Feb. 28, 1939	4.93	3,060	
Jan. 8, 1932	6.01	4,350		Aug. 18, 1939	5.46	3,830	
Mar. 23, 1932	5.52	3,460		1940	Aug. 14, 1940	13.27	19,200
June 10, 1932	5.65	3,720	1941		Nov. 13, 1940	4.50	2,220
June 13, 1932	5.30	3,140		Feb. 18, 1942	6.11	5,450	
1933	Oct. 17, 1932	7.60		7,840	June 10, 1942	7.27	4,910
	Nov. 2, 1932	5.98	4,350	1942	Jan. 19, 1943	6.57	6,010
	Dec. 27, 1932	5.66	3,720		Jan. 28, 1943	7.59	7,780
1934	Feb. 26, 1934	5.52	3,460	1943	Mar. 20, 1944	6.40	5,270
	Mar. 5, 1934	5.57	3,540		Mar. 30, 1944	5.71	4,230
	May 15, 1934	5.50	3,300	Apr. 12, 1944	5.05	3,200	
	June 5, 1934	5.37	3,220	1944	Sept. 18, 1945	7.39	6,580
	June 8, 1934	5.43	3,300		1945	Jan. 8, 1946	8.48	9,680
1935	Aug. 25, 1935	5.99	4,350	Feb. 11, 1946		6.80	6,780
	1936	Jan. 4, 1936	7.60	7,540	May 5, 1946	5.33	3,910
Jan. 7, 1936		6.89	6,520	1946	Jan. 8, 1946	8.48	9,680
Jan. 19, 1936		5.80	4,280		Feb. 11, 1946	6.80	6,780
Mar. 28, 1936		5.60	3,910		May 5, 1946	5.33	3,910
Apr. 6, 1936		13.16	17,100				
July 31, 1936		5.17	3,630				

a From floodmark set by local resident, at site 0.3 mile below gage.

Peak stages and discharges of Tyger River near Woodruff, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 21, 1947	5.49	4,290	1952	Mar. 4, 1952	7.07	6,670
1948	Aug. 6, 1948	5.98	4,800		Mar. 12, 1952	6.00	5,140
					Mar. 24, 1952	8.97	10,000
1949	Nov. 29, 1948	8.88	8,740	1953	Feb. 22, 1953	5.40	3,710
	Feb. 20, 1949	5.16	3,230				
	July 10, 1949	6.16	4,800	1954	Jan. 16, 1954	5.56	4,040
	Aug. 18, 1949	5.97	4,460		Jan. 23, 1954	6.56	5,990
	Aug. 30, 1949	5.10	3,080				
1950	Oct. 7, 1949	12.72	17,200	1955	May 23, 1955	5.16	3,230
1951	Dec. 8, 1950	5.17	3,000	1956	Feb. 7, 1956	5.14	3,060
					Mar. 16, 1956	5.72	3,950
					Apr. 17, 1956	5.99	4,800
1952	Dec. 22, 1951	7.04	6,330		Sept. 27, 1956	5.22	3,390

1600. Fairforest Creek near Union, S. C.

Location.--Lat 34°41', long 81°41', on right bank at downstream side of bridge on State Highway 49, 0.3 mile downstream from Buffalo Creek and 4.3 miles southwest of Union, Union County.

Drainage area.--183 sq mi.

Gage.--Recording. Datum of gage is 393.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended by velocity-area studies and logarithmic plotting.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	7.15	a7,520	1950	Oct. 8, 1949	6.42	5,650
1941	July 17, 1941	6.80	6,610	1951	Oct. 20, 1950	3.90	1,200
1942	Dec. 23, 1941	5.07	2,760	1952	Dec. 22, 1951	5.15	3,030
	Feb. 17, 1942	5.91	4,580		Mar. 4, 1952	6.56	6,010
	Mar. 21, 1942	4.88	2,510		Mar. 25, 1952	6.25	5,290
1943	Jan. 19, 1943	5.57	3,710	1953	May 2, 1953	5.57	3,710
	Jan. 29, 1943	5.57	3,710				
	Apr. 20, 1943	5.36	3,210	1954	Jan. 17, 1954	5.77	4,140
	July 9, 1943	6.08	4,930		Jan. 23, 1954	5.52	3,610
	July 26, 1943	5.04	2,760				
1944	Mar. 20, 1944	6.69	6,370	1955	Feb. 6, 1955	5.13	2,850
					Apr. 14, 1955	4.97	2,590
1945	Sept. 18, 1945	6.94	7,130	1956	Feb. 6, 1956	5.15	2,940
					Mar. 17, 1956	5.55	3,710
1946	Jan. 8, 1946	5.25	3,120		Apr. 11, 1956	4.91	2,510
	Feb. 11, 1946	5.10	2,850	1957	Apr. 9, 1957	3.77	1,010
1947	Jan. 20, 1947	5.75	4,140	1958	Nov. 19, 1957	5.91	4,430
1948	Feb. 14, 1948	4.96	2,590		Apr. 6, 1958	5.61	3,770
	Mar. 7, 1948	5.07	2,760		Apr. 30, 1958	5.22	2,970
1949	Nov. 29, 1948	7.61	8,690	1959	June 2, 1959	5.64	3,880
	Aug. 29, 1949	5.65	3,920		Sept. 30, 1959	5.98	4,650

a Annual peak only.

1605. Enoree River near Enoree, S. C.

Location.--Lat 34°36', long 81°54', on left bank at upstream side of bridge on State Highway 49, three-quarters of a mile upstream from Warrior Creek and 4 miles southeast of Enoree, Spartanburg County.

Drainage area.--307 sq mi.

Gage.--Nonrecording prior to Nov. 20, 1929; recording thereafter. Datum of gage is 448.13 ft above mean sea level, datum of 1929, supplementary adjustment of 1958 and 1959.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended by logarithmic plotting.

Bankfull stage.--5 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Nov. 20, 1929. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929a/	Sept. 27, 1929	8.70	b20,900	1944	Mar. 20, 1944	5.43	7,570
1930	Oct. 2, 1929	10.5	30,000	1945	Sept. 18, 1945	5.11	6,430
1931	May 22, 1931	3.76	3,100	1946	Jan. 7, 1946	5.85	8,960
1932	Dec. 4, 1931	5.29	7,100		Feb. 11, 1946	4.56	4,810
	Jan. 1, 1932	4.23	4,270		May 5, 1946	4.43	4,540
	Jan. 9, 1932	4.83	5,780	1947	Jan. 20, 1947	4.96	5,970
	Aug. 20, 1932	4.56	5,020	1948	Mar. 7, 1948	4.03	3,510
1933	Oct. 17, 1932	6.04	9,500		May 28, 1948	4.30	4,140
	Nov. 1, 1932	3.95	3,560	1949	Nov. 29, 1948	6.18	10,200
	Dec. 27, 1932	4.25	4,270		Jan. 6, 1949	4.23	4,010
1934	Feb. 26, 1934	4.13	3,760		Feb. 20, 1949	4.05	3,510
	June 5, 1934	4.58	4,810	1950	Oct. 8, 1949	6.93	13,000
1935	Oct. 10, 1934	4.58	4,950	1951	Dec. 8, 1950	3.44	1,960
	Aug. 25, 1935	5.70	8,430	1952	Dec. 22, 1951	5.17	6,590
1936	Jan. 4, 1936	5.51	7,740		Mar. 4, 1952	5.62	8,080
	Jan. 7, 1936	5.24	6,910		Mar. 11, 1952	4.22	3,980
	Jan. 19, 1936	4.76	5,380		Mar. 25, 1952	5.82	8,960
	Feb. 5, 1936	4.12	3,630		Aug. 8, 1952	4.08	3,580
	Apr. 2, 1936	5.10	6,430	1953	Feb. 22, 1953	4.29	4,110
	Apr. 7, 1936	7.86	17,200	1954	Jan. 17, 1954	5.00	6,120
1937	Oct. 1, 1936	4.87	5,670	1955	Feb. 7, 1955	4.23	4,010
	Oct. 9, 1936	4.31	4,140	1956	Feb. 7, 1956	4.06	3,510
	Oct. 16, 1936	7.14	13,800		Mar. 17, 1956	4.86	5,670
	Jan. 4, 1937	6.06	9,860		Apr. 17, 1956	4.48	4,660
	Jan. 20, 1937	4.71	5,230		Sept. 27, 1956	4.52	4,670
1938	Oct. 20, 1937	5.86	8,960	1957	Mar. 1, 1957	3.53	2,350
1939	Mar. 1, 1939	4.27	4,010	1958	Nov. 19, 1957	5.12	6,430
	Aug. 18, 1939	4.35	4,270		Jan. 25, 1958	4.08	3,580
1940	Aug. 14, 1940	6.86	12,800		Apr. 6, 1958	4.33	4,240
1941	July 10, 1941	3.68	2,690		Apr. 16, 1958	4.13	3,710
	Feb. 17, 1942	4.82	5,520	1959	May 25, 1959	4.19	3,810
	Mar. 22, 1942	4.33	4,270		Sept. 30, 1959	4.08	3,580
1942	June 11, 1942	4.63	5,090				
	Jan. 19, 1943	5.25	7,070				
1943	Jan. 29, 1943	5.52	7,740				

a No record Oct. 1 to Aug. 7.
b Annual peak only.

SANTEE RIVER BASIN

1609. Broad River at Blair, S. C.

Location.--Lat 34°25', long 81°24', on left bank at Blair, Fairfield County, 1 mile downstream from Enoree River.

Drainage area.--4,573 sq mi (determined by U.S. Weather Bureau).

Gage.--Nonrecording. At site 500 ft downstream prior to September 1908. Datum of gage is 253.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by U.S. Weather Bureau).

Stage-discharge relation.--Not defined.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1886	June 1886	29	-	1933	Oct. 18, 1932	27.8	-
				1934	Mar. 5, 1934	17.4	-
1906	Jan. 5, 1906	15.6	-	1935	Oct. 12, 1934	26.2	-
1907	June 2, 1907	9.5	-				
1908	Aug. 27, 1908	13.1	-	1936	Apr. 8, 1936	33.8	-
1909	June 5, 1909	19.9	-	1937	Oct. 18, 1936	24.0	-
1910	Mar. 2, 1910	14.6	-	1938	Oct. 21, 1937	21.2	-
				1939	Mar. 1, 1939	20.0	-
1911	Oct. 9, 1910	10.8	-	1940	Aug. 15, 1940	31.6	-
1912	Mar. 16, 1912	32.4	-				
1913	Mar. 16, 1913	19.9	-	1941	July 18, 1941	20.0	-
1914	Apr. 16, 1914	11.9	-	1942	Feb. 19, 1942	21.5	-
1915	Jan. 8, 1915	17.4	-	1943	Jan. 30, 1943	22.0	-
				1944	Mar. 20, 1944	25.5	-
1916	July 16, 1916	36.9	-	1945	Sept. 19, 1945	28.8	-
1917	Mar. 6, 1917	18.1	-				
1918	Jan. 31, 1918	12.9	-	1946	Jan. 9, 1946	23.0	-
1919	Oct. 27, 1918	22.4	-	1947	Jan. 21, 1947	22.2	-
1920	Aug. 28, 1920	22.6	-	1948	Feb. 14, 1948	20.5	-
				1949	Nov. 30, 1948	29.0	-
1921	Feb. 11, 1921	22.2	-	1950	Oct. 9, 1949	21.8	-
1922	Feb. 16, 1922	20.3	-				
1923	Mar. 18, 1923	20.5	-	1951	Dec. 9, 1950	17.3	-
1924	Jan. 18, 1924	18.4	-	1952	Mar. 5, 1952	26.6	-
1925	Oct. 1, 1924	24.0	-	1953	Feb. 23, 1953	20.0	-
				1954	Jan. 24, 1954	24.0	-
1926	Jan. 19, 1926	17.6	-	1955	Apr. 15, 1955	19.6	-
1927	Feb. 25, 1927	15.4	-				
1928	Aug. 17, 1928	40.0	-	1956	Mar. 18, 1956	20.0	-
1929	Mar. 1, 1929	25.2	-	1957	Apr. 7, 1957	17.6	-
1930	Oct. 3, 1929	39.5	-	1958	Nov. 20, 1957, Apr. 30, 1958	22.8	-
				1959	Dec. 30, 1958	18.0	-
1931	May 22, 1931	11.8	-				
1932	Jan. 10, 1932	20.2	-				

a Affected by breaking of Lockhart Dam, about 30 miles upstream.

1610. Broad River at Alston, S. C.
(Published as "near Alston" 1900-1902)

Location.--Lat 34°15', long 81°19', at Southern Railway bridge at Alston, Fairfield County.

Drainage area.--4,790 sq mi.

Gage.--Nonrecording. Altitude of gage is 220 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 72,000 cfs and extended by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Broad River at Alston, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Feb. 7, 1897	22.13	85,800	1903	June 7, 1903	29.02	140,000
1898	Sept. 24, 1898	14.80	40,500	1904	Aug. 29, 1904	14.00	36,800
1899	Feb. 28, 1899	18.30	60,800	1905	Feb. 21, 1905	16.60	50,000
1900	Apr. 22, 1900	23.40	95,100				
1901	May 23, 1901	24.80	106,000	1906	Dec. 21, 1905	19.40	67,900
1902	Dec. 31, 1901	24.70	105,000	1907	June 2, 1907	12.50	30,900

1615. Broad River at Richtex, S. C.

Location.--Lat 34°11'05", long 81°11'48", on right bank 0.8 mile west of Richtex, Fairfield County, 1.2 miles upstream from Little River, and 11 miles downstream from Parr Shoals Dam.

Drainage area.--4,850 sq mi, approximately.

Gage.--Recording. Datum of gage is 184.84 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 80,000 cfs and extended on basis of computations of peak flow over Parr Shoals Dam for August 1928, October 1929, and August 1940 floods.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 35,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 20, 1926	12.01	a40,300	1939	Aug. 20, 1939	10.50	37,800
1927	Feb. 25, 1927	9.14	28,400	1940	Aug. 16, 1940	21.08	120,000
1928	Aug. 17, 1928	30.1	a222,000	1941	July 7, 1941	12.41	49,400
1929	Sept. 28, 1929	18.32	a88,200		July 18, 1941	12.34	48,800
1930	Oct. 3, 1929	30.7	228,000	1942	Feb. 18, 1942	12.99	53,300
1931	Dec. 7, 1930	7.81	23,000		Mar. 10, 1942	10.19	36,200
1932	Dec. 5, 1931	11.36	38,800	1943	Jan. 20, 1943	13.22	54,600
	Jan. 2, 1932	12.14	42,600		Jan. 30, 1943	13.63	57,200
	Jan. 9, 1932	14.18	51,200	1944	Mar. 21, 1944	17.40	84,700
	Mar. 7, 1932	13.08	48,600		Mar. 31, 1944	11.13	41,400
1933	Oct. 18, 1932	19.72	101,000	1945	Sept. 19, 1945	18.68	96,600
	Nov. 2, 1932	11.00	36,800	1946	Dec. 27, 1945	11.26	42,600
	Dec. 28, 1932	11.56	39,800		Dec. 30, 1945	10.35	37,200
1934	Mar. 29, 1934	10.48	34,400		Jan. 9, 1946	13.86	59,200
1935	Oct. 12, 1934	17.86	84,600		Feb. 12, 1946	13.31	55,200
1936	Jan. 5, 1936	14.66	59,400	1947	Jan. 21, 1947	13.72	57,800
	Jan. 8, 1936	15.44	64,500	1948	Nov. 4, 1947	10.16	36,200
	Jan. 20, 1936	16.92	76,200		Feb. 14, 1948	12.40	49,400
	Feb. 5, 1936	11.36	38,800		Mar. 8, 1948	10.06	35,000
	Mar. 29, 1936	11.55	39,800		Apr. 2, 1948	10.84	39,600
	Apr. 3, 1936	16.26	71,400		Sept. 6, 1948	10.42	37,200
	Apr. 8, 1936	24.96	157,000	1949	Nov. 30, 1948	18.58	95,700
1937	Oct. 10, 1936	11.49	43,800		Jan. 7, 1949	10.54	37,800
	Oct. 18, 1936	16.12	72,400		Aug. 30, 1949	15.46	70,300
	Jan. 5, 1937	15.25	66,500	1950	Oct. 9, 1949	12.75	52,000
	Jan. 21, 1937	12.46	49,800	1951	Dec. 9, 1950	9.16	30,600
	Apr. 26, 1937	11.17	42,000	1952	Dec. 23, 1951	12.44	49,400
1938	Oct. 21, 1937	13.53	55,800		Mar. 6, 1952	17.35	84,700
	July 26, 1938	10.78	39,600		Mar. 13, 1952	12.63	50,700
1939	Feb. 27, 1939	10.55	38,400		Mar. 26, 1952	16.22	75,300
	Mar. 2, 1939	13.12	53,400				

a Annual peak only.

Peak stages and discharges of Broad River at Richtex, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Feb. 23, 1953	11.15	42,000	1956	Apr. 17, 1956	11.19	42,000
	Mar. 25, 1953	10.42	37,200				
1954	Jan. 17, 1954	11.42	43,200	1957	Apr. 7, 1957	9.35	31,800
	Jan. 24, 1954	14.68	64,700				
1955	Feb. 8, 1955	10.55	38,400	1958	Nov. 21, 1957	13.35	55,900
	Apr. 15, 1955	11.36	43,200		Nov. 27, 1957	10.43	37,200
					Jan. 26, 1958	10.12	35,600
1956	Mar. 18, 1956	11.24	42,000	Apr. 8, 1958	10.58	38,400	
	Apr. 11, 1956	10.43	37,200	Apr. 30, 1958	13.30	55,200	
				1959	Dec. 30, 1958	9.31	31,200

1625. Saluda River near Greenville, S. C.
(Published as "near West Greenville" prior to 1949)

Location--Lat 34°50'32", long 82°28'51", on right bank 700 ft upstream from bridge on U.S. Highway 123 alternate, 1.5 miles downstream from Saluda Lake Dam, 2.6 miles upstream from Georges Creek, and 4.6 miles west of city hall in Greenville, Greenville County.

Drainage area--293 sq mi.

Gage--Recording. Altitude of gage is 810 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 7,500 cfs and extended on basis of computation of peak flow over dam at Saluda Lake at 11,000 cfs.

Remarks--Ease for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	11.63	5,980	1950	Oct. 7, 1949	15.38	11,000
	May 21, 1942	8.57	4,180				
1943	Dec. 30, 1942	11.01	5,620	1951	Dec. 8, 1950	6.76	3,080
1944	Mar. 20, 1944	8.27	4,000	1952	Dec. 21, 1951	5.96	5,020
	Mar. 30, 1944	8.37	4,060		Mar. 4, 1952	6.77	4,300
			Mar. 12, 1952		8.40	4,660	
1945	Mar. 27, 1945	6.26	2,740	Mar. 23, 1952	10.94	5,560	
1946	Jan. 8, 1946	14.48	7,720	1953	Feb. 22, 1953	8.87	4,360
	Feb. 11, 1946	10.41	5,260				
1947	Jan. 20, 1947	7.42	3,460	1954	Jan. 23, 1954	15.05	8,040
1948	Aug. 5, 1948	6.87	3,140	1955	Feb. 7, 1955	7.85	3,700
1949	Nov. 29, 1948	10.84	5,500	1956	Apr. 16, 1956	7.38	3,460
	Jan. 6, 1949	6.50	2,880				
	May 1, 1949	7.05	3,210	1957	Apr. 6, 1957	9.62	4,780
	July 13, 1949	12.12	6,280		Sept. 18, 1957	6.46	2,900
	July 19, 1949	7.54	3,520	1958	Apr. 29, 1958	6.65	2,970
	Aug. 29, 1949	7.11	3,280				
	Sept. 8, 1949	7.42	3,460	1959	Apr. 13, 1959	6.69	2,900
					June 1, 1959	7.65	3,580

1630. Saluda River near Pelzer, S. C.

Location.--Lat 34°40'05", long 82°27'55", on right bank 0.4 mile downstream from Hurricane Creek and 1.9 miles north of Pelzer, Anderson County.

Drainage area.--405 sq mi.

Gage.--Recording. Datum of gage is 727.75 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended by logarithmic plotting.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1929a	Sept. 27, 1929	5.80	b6,460	1946	Jan. 7, 1946	8.63	10,400	
1930	Oct. 2, 1929	6.88	9,400		Feb. 11, 1946	6.32	6,520	
	Oct. 22, 1929	5.14	5,000		May 4, 1946	6.52	6,840	
1931	May 22, 1931	3.90	2,750	1947	Jan. 20, 1947	5.75	5,720	
					June 15, 1947	4.20	3,160	
1932	Dec. 15, 1931	5.08	4,900	1948	Feb. 13, 1948	4.10	3,040	
	Jan. 8, 1932	4.67	4,030			Aug. 6, 1948	4.28	3,340
	Mar. 22, 1932	4.77	4,220	1949	Nov. 29, 1948	7.37	8,370	
	Aug. 1, 1932	4.20	3,240			Jan. 6, 1949	4.97	4,440
1933	Oct. 17, 1932	6.39	7,990			Feb. 20, 1949	4.36	3,400
	Nov. 1, 1932	5.48	5,760			Mar. 24, 1949	4.16	3,080
	Dec. 27, 1932	5.74	6,220			May 2, 1949	4.98	4,120
1934	Mar. 5, 1934	5.80	6,460			July 14, 1949	6.26	6,520
	May 15, 1934	4.20	3,240		July 19, 1949	5.13	4,600	
1935	Jan. 10, 1935	5.54	5,760		Aug. 29, 1949	4.68	3,960	
					Sept. 7, 1949	5.50	5,240	
1936	Nov. 14, 1935	4.99	4,440	1950	Oct. 7, 1949	10.53	13,600	
	Jan. 3, 1936	7.68	8,880		Nov. 1, 1949	4.93	4,280	
	Jan. 6, 1936	6.10	6,200	1951	Dec. 8, 1950	4.76	4,120	
	Jan. 20, 1936	5.86	5,880					
	Feb. 5, 1936	5.60	5,400					
Mar. 28, 1936	4.35	3,420						
Apr. 7, 1936	10.26	13,300	1952	Dec. 21, 1951	7.22	8,030		
1937	Oct. 1, 1936	7.97		9,390		Mar. 4, 1952	6.54	6,840
	Oct. 10, 1936	6.74		7,180		Mar. 11, 1952	6.37	6,680
	Jan. 3, 1937	8.00		9,390		Mar. 24, 1952	7.40	8,370
	Sept. 8, 1937	4.53	3,720	1953	Feb. 22, 1953	5.82	5,720	
1938	Oct. 19, 1937	8.54	10,200			Mar. 25, 1953	4.32	3,320
	July 23, 1938	4.34	3,420		1954	Jan. 16, 1954	5.75	5,720
	1939	Feb. 4, 1939	5.00	4,440			Jan. 24, 1954	7.89	9,220
Mar. 2, 1939		4.41	3,490			Mar. 28, 1954	4.48	3,560
Aug. 20, 1939	6.24	6,360	1955	Feb. 7, 1955	5.28	4,920		
1940	July 17, 1940	4.49		3,640		May 22, 1955	4.15	3,080
	Aug. 14, 1940	8.31		9,920	1956	Feb. 7, 1956	4.41	3,480
	1941	July 9, 1941	3.76	2,540			Mar. 16, 1956	4.77	4,040
Feb. 17, 1942		6.66	7,180			Apr. 16, 1956	5.88	5,880
May 22, 1942	4.91	4,280	1957	Feb. 2, 1957	4.29	3,320		
1942	Feb. 17, 1942	6.66		7,180		Apr. 6, 1957	5.75	5,720
	May 22, 1942	4.91		4,280		Sept. 18, 1957	4.18	3,160
	1943	Dec. 31, 1942	5.95	6,040	1958	Nov. 19, 1957	4.55	3,720
Jan. 19, 1943		5.69	5,560			Mar. 31, 1958	4.47	3,560
Jan. 28, 1943		6.49	6,840			Apr. 29, 1958	5.25	4,760
						May 2, 1958	4.29	3,320
1944	Mar. 20, 1944	5.78	5,720	1959	Apr. 13, 1959	4.75	4,040	
	Mar. 30, 1944	5.44	5,080			June 1, 1959	4.97	4,440
1945	Mar. 27, 1945	4.57	3,720			Sept. 1, 1959	4.11	3,080
						Sept. 8, 1959	4.48	3,640
1946	Dec. 26, 1945	4.36	3,400					

a No record Oct. 1 to Aug. 31.

b Annual peak only.

1630.2. Saluda River at Pelzer, S. C.

Location.--Lat 34°39', long 82°27', on left bank at downstream side of bridge on State Highway 8 at Pelzer, Anderson County, 3.0 miles downstream from Hurricane Creek.

Drainage area.--415 sq mi (determined by U.S. Weather Bureau).

Gage.--Nonrecording. Datum of gage is 689.73 ft above mean sea level (levels by U.S. Weather Bureau).

Stage-discharge relation.--Not defined.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906a/	Sept. 20, 1906	6.7	-	1933	Oct. 17, 1932	11.0	-
1907	Oct. 4, 1906	8.4	-	1934	Mar. 5, 1934	10.3	-
1908	Aug. 25, 1908	25.6	-	1935	Jan. 10, 1935	9.2	-
1909	June 4, 1909	10.7	-				
1910	May 8, 1910	10.6	-	1936	Apr. 7, 1936	15.0	-
				1937	Jan. 3, 1937	12.8	-
1911	July 17, 1911	7.0	-	1938	Oct. 19, 1937	14.0	-
1912	Mar. 15, 1912	10.7	-	1939	Aug. 19, 1939	10.8	-
1913	Mar. 15, 1913	10.4	-	1940	Aug. 14, 1940	14.0	-
1914	Apr. 15, 1914	6.0	-				
1915	Dec. 5, 1914	8.6	-	1941	July 9, 1941	6.5	-
				1942	Feb. 18, 1942	11.0	-
1916	July 17, 1916	14.0	-	1943	Jan. 28, 1943	11.0	-
1917	Mar. 25, 1917	10.2	-	1944	Mar. 20, 1944	10.1	-
1918	Jan. 13, 1918	7.6	-	1945	Mar. 28, 1945	7.5	-
1919	Oct. 27, 1918	18.0	-				
1920	Dec. 10, 1919	14.0	-	1946	Jan. 8, 1946	13.2	-
				1947	Jan. 21, 1947	10.0	-
1921	Feb. 11, 1921	11.0	-	1948	Aug. 6, 1948	8.0	-
1922	May 5, 1922	10.4	-	1949	Nov. 29, 1948	12.3	-
1923	Aug. 29, 1923	11.9	-	1950	Oct. 8, 1949	15.0	-
1924	Sept. 22, 1924	10.3	-				
1925	Jan. 19, 1925	9.2	-	1951	Dec. 8, 1950	8.5	-
				1952	Mar. 24, 1952	12.5	-
1926	Jan. 19, 1926	10.2	-	1953	Feb. 21, 1953	10.5	-
1927	Feb. 24, 1927	8.4	-	1954	Jan. 24, 1954	14.0	-
1928	Aug. 16, 1928	18.9	-	1955	Feb. 8, 1955	8.0	-
1929	Sept. 27, 1929	11.4	-				
1930	Oct. 2, 1929	11.9	-	1956	Apr. 16, 1956	9.8	-
				1957	Apr. 6, 1957	10.0	-
1931	May 22, 1931	7.4	-	1958	Apr. 30, 1958	9.0	-
1932	Jan. 8, 1932	9.6	-	1959	June 1, 1959	8.5	-

a No record Oct. 1 to June 30.

1635. Saluda River near Ware Shoals, S. C.

Location.--Lat 34°23', long 82°14', on right bank 2 miles southeast of Ware Shoals, Greenwood County, 2½ miles downstream from Ware Shoals Dam, and 5 miles upstream from Turkey Creek.

Drainage area.--569 sq mi.

Gage.--Recording. Altitude of gage is 448 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended above on basis of computation of flow over Ware Shoals Dam at 20,600 cfs.

Bankfull stage.--18 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Aug. 18, 1939	14.29	10,500	1949	July 14, 1949	12.25	6,760
1940	Feb. 18, 1940	9.59	4,970		July 20, 1949	9.98	4,940
	Aug. 13, 1940	20.48	20,600		Aug. 30, 1949	8.88	4,220
					Sept. 7, 1949	11.82	6,040
1941	July 7, 1941	9.27	5,010	1950	Oct. 8, 1949	18.45	14,900
	July 17, 1941	8.74	4,350		Nov. 2, 1949	9.83	4,940
1942	Feb. 18, 1942	13.50	8,190	1951	Dec. 8, 1950	9.11	4,740
	Mar. 16, 1942	13.58	7,980				
	Mar. 21, 1942	13.87	8,300	1952	Dec. 22, 1951	15.95	10,700
	May 22, 1942	8.80	4,480		Mar. 4, 1952	16.17	10,900
1943	Dec. 30, 1942	11.64	6,440		Mar. 12, 1952	13.37	7,990
	Jan. 18, 1943	18.18	15,300		Mar. 24, 1952	19.20	14,100
	Jan. 28, 1943	17.15	13,400	1953	Feb. 21, 1953	13.59	8,180
	Mar. 21, 1943	9.65	5,000		Mar. 25, 1953	8.10	4,030
	July 10, 1943	8.76	4,290				
	July 13, 1943	8.52	4,100	1954	Dec. 12, 1953	9.45	4,880
1944	Mar. 20, 1944	16.45	11,700		Jan. 16, 1954	14.88	9,180
	Mar. 23, 1944	9.65	4,880		Jan. 24, 1954	15.34	9,700
	Mar. 30, 1944	12.25	6,760		Mar. 28, 1954	8.94	4,420
1945	Apr. 25, 1945	9.62	5,000	1955	Feb. 7 or 8, 1955	12.38	7,090
	Sept. 13, 1945	10.99	5,970				
	Sept. 17, 1945	10.25	5,410	1956	Feb. 7, 1956	9.95	5,270
1946	Jan. 7, 1946	17.71	14,300		Mar. 16, 1956	13.24	7,450
	Feb. 11, 1946	12.94	7,390		Apr. 17, 1956	13.11	7,360
	May 4, 1946	12.80	7,480		Sept. 26, 1956	14.61	9,080
1947	Jan. 20, 1947	13.25	7,880	1957	Apr. 7, 1957	11.27	5,830
1948	Nov. 2, 1947	9.60	5,000	1958	Nov. 19, 1957	16.48	10,400
	Nov. 11, 1947	9.32	4,740		Jan. 25, 1958	8.81	4,360
	Feb. 14, 1948	9.48	4,810		Feb. 27, 1958	8.25	4,030
	Mar. 7, 1948	10.59	5,340		Apr. 1, 1958	8.82	4,160
	Mar. 31, 1948	9.48	4,420		Apr. 6, 1958	9.87	4,480
	July 16, 1948	10.48	5,410		Apr. 16, 1958	9.95	4,480
1949	Nov. 29, 1948	19.12	16,500		Apr. 30, 1958	10.71	5,200
	Jan. 6, 1949	11.77	6,200	1959	Apr. 14, 1959	9.28	4,810
	Feb. 20, 1949	9.92	5,000		June 2, 1959	9.92	5,070
	May 2, 1949	11.41	5,480		Sept. 9, 1959	8.51	4,290

a Annual peak only.

SANTEE RIVER BASIN

1640. Reedy River near Greenville, S. C.

Location--Lat 34°48'00", long 82°21'55", on right bank 440 ft upstream from State Highway bridge, 0.5 mile upstream from Brushy Creek, 2.5 miles upstream from dam at Conestee, and 3.9 miles southeast of city hall in Greenville, Greenville County.

Drainage area--48.6 sq mi.

Gage--Recording. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation--Defined by current-meter measurements below 2,000 cfs and extended by velocity-area studies.

Remarks--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	4.65	1,560	1952	Dec. 21, 1951	5.42	2,000
1943	Jan. 18, 1943	4.65	1,560	Mar. 4, 1952	5.34	1,940	
	Jan. 28, 1943	5.10	1,810	Mar. 11, 1952	4.77	1,680	
				Mar. 23, 1952	4.87	1,720	
1944	Feb. 26, 1944	3.77	1,200	1953	Feb. 20, 1953	3.90	1,250
	Mar. 6, 1944	3.59	1,120	1954	Dec. 12, 1953	3.49	1,070
	Mar. 20, 1944	4.33	1,430		Jan. 16, 1954	4.52	1,580
	Mar. 29, 1944	3.80	1,200		Jan. 22, 1954	4.47	1,520
	Aug. 31, 1944	3.45	1,050		Mar. 27, 1954	4.17	1,380
1945	Feb. 13, 1945	3.35	1,000	1955	Feb. 6, 1955	3.86	1,250
	Sept. 13, 1945	4.86	1,710		May 21, 1955	3.55	1,090
1946	Dec. 25, 1945	3.59	1,120	1956	Feb. 6, 1956	4.17	1,380
	Jan. 7, 1946	6.25	2,360		Feb. 17, 1956	3.45	1,050
	Feb. 10, 1946	4.86	1,710		Mar. 16, 1956	5.04	1,780
	Apr. 29, 1946	3.65	1,140		Apr. 6, 1956	4.43	1,480
	May 4, 1946	5.53	2,010		Apr. 16, 1956	6.19	2,460
1947	Jan. 20, 1947	4.68	1,610	May 4, 1956	4.25	1,380	
	Aug. 6, 1947	3.87	1,250	July 9, 1956	3.54	1,090	
1948	Mar. 31, 1948	3.56	1,090	Sept. 26, 1956	4.97	1,780	
	May 27, 1948	4.29	1,430	1957	Jan. 31, 1957	3.62	1,120
	Aug. 4, 1948	4.01	1,300		Apr. 5, 1957	4.11	1,340
			June 21, 1957		3.59	1,120	
1949	Nov. 28, 1948	6.17	2,460	1958	Nov. 19, 1957	5.20	1,880
	Jan. 5, 1949	4.13	1,340		Jan. 24, 1958	3.55	1,000
	Feb. 19, 1949	3.72	1,160		Apr. 28, 1958	4.10	1,340
	Aug. 28, 1949	4.45	1,480		May 2, 1958	4.82	1,680
	Sept. 6, 1949	5.60	2,100		July 8, 1958	4.07	1,300
1950	Oct. 7, 1949	7.88	3,590	July 21, 1958	3.42	1,020	
	Oct. 30, 1949	4.27	1,430	Aug. 12, 1958	3.43	1,020	
1951	Oct. 20, 1950	4.52	1,520	1959	Dec. 28, 1958	3.49	1,050
	Dec. 7, 1950	4.32	1,430		July 11, 1959	4.47	1,150
	Aug. 3, 1951	3.87	1,250		Sept. 7, 1959	5.04	1,320
	Aug. 13, 1951	4.67	1,620		Sept. 30, 1959	4.27	1,080
	Sept. 6, 1951	6.85	2,860				
	Sept. 22, 1951	4.39	1,480				

a Annual peak only.

1650. Reedy River near Ware Shoals, S. C.

Location--Lat 34°27', long 82°12', on left bank $1\frac{1}{2}$ miles downstream from dam at Boyd's mill, 4.5 miles northeast of Ware Shoals, Greenwood County, and 10.5 miles upstream from Rabon Creek.

Drainage area--228 sq mi.

Gage--Recording. Altitude of gage is 489 ft (by barometer).

Stage-discharge relation--Defined by current-meter measurements below 7,700 cfs.

Remarks--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges of Reedy River near Ware Shoals, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)	
1939a/	Aug. 19, 1939	5.65	b5,560	1949	Jan. 6, 1949	4.88	2,860	
1940	Feb. 19, 1940	4.37	2,330	1949	Feb. 20, 1949	4.65	2,600	
	Aug. 14, 1940	13.32	9,410		Sept. 8, 1949	4.82	2,760	
1941	July 17, 1941	4.40	2,380	1950	Oct. 8, 1949	7.56	5,370	
				1951	Sept. 8, 1951	4.28	2,220	
1942	Feb. 18, 1942	6.50	4,270	1952	Dec. 22, 1951	7.82	5,530	
	Mar. 16, 1942	5.81	3,740		Mar. 5, 1952	8.60	6,120	
	Mar. 22, 1942	5.22	3,180		Mar. 13, 1952	4.26	2,230	
1943	Dec. 30, 1942	4.65	2,580	1953	Mar. 25, 1952	7.87	5,600	
	Jan. 19, 1943	9.69	6,960		Feb. 22, 1953	5.31	3,200	
	Jan. 29, 1943	9.69	6,960		1954	Jan. 17, 1954	7.12	4,960
	Mar. 21, 1943	4.50	2,580			Jan. 23, 1954	4.76	2,780
1944	Mar. 21, 1944	7.41	4,840	1955	Apr. 1, 1954	4.62	2,580	
	Mar. 30, 1944	4.65	2,580		Feb. 8, 1955	5.02	2,960	
1945	Feb. 14, 1945	4.52	2,480	1956	Feb. 7, 1956	4.61	2,580	
	Sept. 17, 1945	4.64	2,580		Mar. 17, 1956	6.12	3,830	
1946	Dec. 26, 1945	4.35	2,330	1957	Apr. 17, 1956	5.74	3,550	
	Jan. 8, 1946	10.44	7,380		Sept. 27, 1956	6.29	3,970	
	Feb. 11, 1946	5.25	3,180		1958	Apr. 6, 1957	3.87	1,830
1947	Jan. 21, 1947	5.48	3,470	Nov. 20, 1957		7.88	5,600	
	Nov. 12, 1947	4.46	2,380	Apr. 6, 1958		4.53	2,530	
	Feb. 13, 1948	4.55	2,500	Apr. 17, 1958		4.28	2,280	
	Mar. 8, 1948	4.74	2,680	Apr. 30, 1958	4.23	2,230		
1948	Apr. 1, 1948	4.26	2,230	1959	Sept. 9, 1959	4.15	2,130	
	1949	Nov. 29, 1948	10.64		7,520			

a No record Oct. 1 to Mar. 22.

b Annual peak only.

1655. Saluda River near Waterloo, S. C.
(Published as "at Waterloo" prior to 1902)

Location.--Lat 34°18', long 82°05', at Charleston & Western Carolina Railroad bridge, seven-eighths of a mile downstream from Reedy River and 4½ miles south of Waterloo, Laurens County.

Drainage area.--1,056 sq mi.

Gage.--Nonrecording. At datum 1.5 ft higher prior to Jan. 1, 1902, but all peak gage heights have been adjusted to present datum. Altitude of gage is 400 ft (from river-profile map).

Stage-discharge relation.--Not defined for flood stages.

Remarks.--Peaks are from graphs based on gage readings. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Apr. 7, 1897	18.8		1902	Feb. 2, 1902	25.2	
1898	Sept. 25, 1898	15.2		1903	June 8, 1903	22.9	
1899	Feb. 7, 1899	20.8		1904	Aug. 8, 1904	21.4	
1900	Feb. 14, 1900	22.5		1905	July 2, 1905	17.0	
1901	Sept. 18, 1901	24.5					

1670. Saluda River at Chappells, S. C.

Location.--Lat 34°11', long 81°52', on left bank at downstream side of bridge on State Highway 39 at Chappells, Newberry County, 7 miles downstream from dam at Lake Greenwood and 8½ miles upstream from Little River.

Drainage area.--1,350 sq mi, approximately.

Gage.--Nonrecording prior to June 27, 1927; recording thereafter. At site 300 ft downstream at datum 0.90 ft higher prior to Oct. 1, 1926, and at datum 0.10 ft lower Oct. 1, 1926, to Sept. 30, 1939. Datum of gage is 363.89 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined prior to Oct. 1, 1926. Defined thereafter by current-meter measurements below 27,000 cfs and extended on basis of velocity-area studies.

Bankfull stage.--14 ft; 13 ft prior to Oct. 1, 1926.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau prior to June 27, 1927. Peak discharges since May 1940 affected by storage in Lake Greenwood. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	September 1888	30.6	-	1932	Jan. 9, 1932	20.51	16,800
				1933	Oct. 19, 1932	21.28	19,200
1906	Dec. 22, 1905	18.6	-	1934	June 7, 1934	20.94	18,000
1907	Oct. 5, 1906	13.3	-	1935	Oct. 12, 1934	17.22	9,700
1908	Aug. 26, 1908	34.7	-				
1909	June 5, 1909	20.5	-	1936	Apr. 8, 1936	28.60	49,400
1910	Mar. 3, 1910	17.6	-	1937	Jan. 5, 1937	22.03	21,400
				1938	Oct. 22, 1937	27.91	18,000
1911	Oct. 9, 1910	12.2	-	1939	Mar. 1, 1939	19.07	15,200
1912	Mar. 16, 1912	25.0	-	1940	Aug. 14, 1940	28.66	49,700
1913	Mar. 16, 1913	22.0	-				
1914	Dec. 31, 1913	16.7	-	1941	July 17, 1941	14.96	7,400
1915	Jan. 8, 1915	16.5	-	1942	Mar. 22, 1942	22.82	24,500
				1943	Jan. 29, 1943	22.21	22,100
1916	Feb. 4, 1916	20.3	-	1944	Mar. 21, 1944	24.84	32,500
1917	Mar. 6, 1917	19.0	-	1945	Sept. 18, 1945	13.52	6,080
1918	Aug. 4, 1918	17.0	-				
1919	Oct. 28, 1918	22.6	-	1946	Jan. 8, 1946	22.30	22,500
1920	Dec. 12, 1919	19.5	-	1947	Jan. 21, 1947	15.68	8,100
				1948	Apr. 1, 1948	19.52	14,200
1921	Feb. 11, 1921	22.5	-	1949	Nov. 29, 1948	24.59	31,400
1922	Feb. 17, 1922	20.0	-	1950	Mar. 7, 1950	12.46	5,310
1923	Mar. 18, 1923	18.8	-				
1924	July 10, 1924	16.8	-	1951	Apr. 3, 1951	12.39	5,430
1925	Jan. 20, 1925	20.5	-	1952	Mar. 25, 1952	24.68	31,900
				1953	Feb. 25, 1953	13.70	6,380
1926	Jan. 20, 1926	15.5	-	1954	Jan. 24, 1954	13.57	6,320
1927	Dec. 30, 1926	15.3	7,700	1955	Apr. 15, 1955	13.78	6,460
1928	Aug. 17, 1928	29.97	56,200				
1929	Sept. 28, 1929	30.90	60,700	1956	Apr. 18, 1956	18.79	12,400
1930	Oct. 2, 1929	31.5	63,700	1957	Apr. 5, 1957	12.48	5,590
				1958	Nov. 20, 1957	19.14	13,200
1931	Apr. 1, 1931	12.49	5,310	1959	June 3, 1959	12.28	5,390

1675. Saluda River near Silverstreet, S. C.

Location.--Lat 34°11', long 81°44', on left bank 200 ft upstream from Higgins Ferry Bridge on Stage Highway 19, 1 mile downstream from Little River, and 2½ miles south of Silverstreet, Newberry County.

Drainage area.--1,620 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 15, 1929; recording thereafter. Datum of gage is 345.13 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs and extended on basis of discharge measurements made at Chappells and near Chapin.

Remarks.--Peaks are from graphs based on gage readings prior to Oct. 15, 1929. Peak discharges since May 1940 affected by storage in Lake Greenwood. Only annual peaks are shown.

Peak stages and discharges of Saluda River near Silverstreet, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Aug. 18, 1928	30.6	60,400	1944	Mar. 21, 1944	26.93	39,100
1929	Sept. 28, 1929	32.05	69,800	1945	Apr. 27, 1945	15.46	9,130
1930	Oct. 3, 1929	33.97	83,800	1946	Jan. 9, 1946	-	22,800
1931	Apr. 2, 1931	12.87	6,180	1947	Jan. 21, 1947	18.12	13,000
1932	Jan. 10, 1932	21.12	18,600	1948	Apr. 2, 1948	a20.40	14,600
1933	Sept. 8, 1933	21.52	19,600	1949	Nov. 30, 1948	25.80	32,200
1934	June 7, 1934	20.84	18,000	1950	Mar. 8, 1950	14.43	6,860
1935	Oct. 11, 1934	17.22	11,500	1951	Apr. 4, 1951	14.07	6,970
1936	Apr. 8, 1936	a31.89	63,000	1952	Mar. 25, 1952	25.34	28,400
1937	Jan. 6, 1937	21.98	20,900	1953	Feb. 25, 1953	14.20	6,860
1938	Oct. 23, 1937	19.75	15,800	1954	Apr. 2, 1954	14.96	7,760
1939	Mar. 2, 1939	20.00	16,300	1955	Apr. 15, 1955	16.88	10,400
1940	Aug. 15, 1940	30.29	58,300	1956	Apr. 18, 1956	18.62	13,200
1941	July 18, 1941	15.08	8,610	1957	Apr. 6, 1957	14.21	6,620
1942	Mar. 23, 1942	22.96	23,700	1958	Nov. 21, 1957	b19.91	15,400
1943	Jan. 30, 1943	21.66	20,100	1959	Sept. 30, 1959	a c15.33	6,860

a Affected by backwater from Lake Murray.

b Occurred on Apr. 17, 1958.

c Occurred on June 3, 1959.

1690. Saluda River near Columbia, S. C.

Location.--Lat 34°00'50", long 81°05'17", on left bank 0.4 mile upstream from site of old Saluda mill, 1.6 miles upstream from confluence with Broad River, and 3.3 miles west of State Capitol in Columbia, Richland County.

Drainage area.--2,510 sq mi, approximately.

Gage.--Nonrecording prior to Sept. 1, 1929, at datum 1.00 ft higher; recording thereafter. Datum of gage is 149.46 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended on basis of discharge measurements made at Wise Ferry Bridge near Chapin.

Remarks.--Peaks are from graphs based on gage readings prior to Sept. 1, 1929. Peak discharges since August 1929 regulated by storage in Lake Murray. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Mar. 31, 1926	7.75	23,300	1943	July 22, 1943	6.09	10,300
1927	July 20, 1927	5.62	12,300	1944	Mar. 24, 1944	9.15	25,700
1928	Aug. 18, 1928	13.04	58,200	1945	Sept. 17, 1945	6.13	10,300
1929	Mar. 6, 1929	12.43	53,600	1946	Apr. 26, 1946	9.71	28,700
1930	Oct. 2, 1929	15.22	67,000	1947	Dec. 7, 1946	6.13	10,300
1931	Sept. 11, 1931	5.86	9,590	1948	Apr. 8, 1948	8.51	20,400
1932	Sept. 13, 1932	6.12	10,300	1949	May 1, 1949	9.16	25,700
1933	Feb. 20, 1933	9.04	24,500	1950	Nov. 22, 1949	6.36	10,700
1934	Nov. 2, 1933	6.44	11,500	1951	Aug. 10, 1951	6.25	10,300
1935	Sept. 5, 1935	7.17	14,800	1952	June 12, 1952	6.36	10,700
1936	Apr. 7, 1936	14.53	61,600	1953	Sept. 3, 1953	6.13	9,600
1937	Apr. 9, 1937	8.74	23,000	1954	Nov. 9, 1953	6.10	9,600
1938	Nov. 15, 1937	6.28	11,600	1955	Aug. 19, 1955	6.07	9,250
1939	Sept. 8, 1939	6.04	9,950	1956	Aug. 15, 1956	5.65	8,080
1940	Aug. 28, 1940	5.95	9,950	1957	Sept. 3, 1957	6.07	10,300
1941	Dec. 13, 1940	6.15	10,700	1958	Jan. 24, 1958	6.77	13,100
1942	June 10, 1942	6.92	13,500	1959	Sept. 30, 1959	6.26	10,300

1695. Congaree River at Columbia, S. C.

Location.--Lat 33°59'35", long 81°03'00", on right bank at Columbia, Richland County, 1,000 ft downstream from Gervais Street Bridge and 1.4 miles downstream from confluence of Broad and Saluda Rivers.

Drainage area.--7,850 sq mi, approximately.

Gage.--Nonrecording prior to Dec. 22, 1934; recording thereafter. At site 1,000 ft upstream at datum 4.00 ft higher prior to Jan. 1, 1934. Datum of gage is 113.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 130,000 cfs made subsequent to 1939 and extended on basis of conveyance-slope study at 364,000 cfs.

Bankfull stage.--19 ft; 15 ft prior to Jan. 1, 1934.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau prior to Dec. 22, 1934. Peak discharges since August 1929 affected by storage in Lake Murray. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1852	September 1852	34.4		1925	Jan. 20, 1925	23.5	139,000
1892	Jan. 20, 1892	24.6	154,000	1926	Feb. 26, 1926	13.0	51,100
1893	Aug. 29, 1893	21.1	110,000	1927	Feb. 25, 1927	10.2	39,100
1894	Oct. 24, 1893	12.7	49,800	1928	Aug. 18, 1928	33.5	311,000
1895	Oct. 10, 1894	20.4	103,000	1929	Mar. 1, 1929	2f.9	173,000
1896	Feb. 7, 1896	17.8	79,600	1930	Oct. 3, 1929	3f.1	303,000
1897	Feb. 7, 1897	21.5	115,000	1931	Dec. 8, 1930	6.7	26,800
1898	Sept. 25, 1898	10.2	39,100	1932	Jan. 10, 1932	1f.7	71,600
1899	Feb. 8, 1899	21.7	117,000	1933	Oct. 19, 1932	21.5	115,000
1900	Apr. 22 or 23, 1900	22.0	120,000	1934	Mar. 29, 1934	17.7	33,400
				1935	Oct. 12, 1934	23.3	92,300
1901	Apr. 3, 1901	23.0	132,000	1936	Apr. 8, 1936	33.34	231,000
1902	Mar. 2, 1902	22.0	120,000	1937	Oct. 19, 1936	2f.56	70,900
1903	June 9, 1903	27.2	194,000	1938	Oct. 21, 1937	1f.42	57,900
1904	Aug. 10, 1904	12.2	47,500	1939	Mar. 2, 1939	19.93	66,400
1905	Feb. 22, 1905	14.7	59,400	1940	Aug. 16, 1940	2f.14	121,000
1906	Dec. 22, 1905	20.3	102,000	1941	July 18, 1941	17.19	52,000
1907	June 3, 1907	9.0	34,500	1942	Feb. 19, 1942	17.31	52,400
1908	Aug. 27, 1908	35.8	364,000	1943	Jan. 20, 1943	19.44	63,400
1909	June 5, 1909	22.0	120,000	1944	Mar. 21, 1944	24.57	105,000
1910	Mar. 3, 1910	13.8	54,900	1945	Sept. 20, 1945	24.30	102,000
1911	Oct. 9, 1910	10.9	41,900	1946	Jan. 9, 1946	19.21	62,200
1912	Mar. 17, 1912	30.7	256,000	1947	Jan. 21, 1947	19.42	63,400
1913	Mar. 16, 1913	23.2	135,000	1948	Feb. 14, 1948	17.72	54,400
1914	Dec. 31, 1913	14.6	58,900	1949	Nov. 30, 1948	25.56	116,000
1915	Jan. 8, 1915	17.4	76,500	1950	Oct. 9, 1949	16.77	50,200
1916	July 17, 1916	31.5	272,000	1951	Dec. 9, 1950	12.27	32,000
1917	Mar. 6, 1917	17.8	79,600	1952	Mar. 6, 1952	23.20	91,400
1918	Jan. 31, 1918	12.2	47,500	1953	Feb. 23, 1953	15.28	43,500
1919	Oct. 28, 1918	20.7	106,000	1954	Jan. 25, 1954	19.66	65,200
1920	Aug. 28, 1920	19.5	94,100	1955	Apr. 15, 1955	16.06	47,000
1921	Feb. 11, 1921	24.3	149,000	1956	Apr. 18, 1956	15.22	43,100
1922	Feb. 17, 1922	22.2	123,000	1957	Apr. 7, 1957	12.00	31,000
1923	Mar. 18, 1923	17.7	78,800	1958	May 1, 1958	19.46	64,000
1924	Jan. 18, 1924	15.6	64,600	1959	June 3, 1959	12.60	33,100

1698. Santee River near Fort Motte, S. C.

Location.--Lat 33°45', long 80°37', on right bank 0.3 mile downstream from confluence of Wateree and Congaree Rivers and 4.0 miles east of Fort Motte, Calhoun County.

Drainage area.--14,100 sq mi, approximately.

Gage.--Recording. Datum of gage is 68.00 ft above mean sea level (levels by South Carolina Public Service Authority).

Stage-discharge relation.--Not defined.

Remarks.--Peaks affected by storage in Lake Murray and to a lesser degree by storage in reservoirs on Catawba, Wateree, and Broad Rivers. Only annual peaks stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Feb. 26, 1953	15.00	-	1957	Apr. 10, 1957	13.65	-
1954	Jan. 27, 1954	16.58	-	1958	Nov. 23, 1957	15.98	-
1955	Apr. 18, 1955	14.55	-	1959	Mar. 10, 1959	13.88	-
1956	Apr. 20, 1956	14.58	-				

1699. Santee River near Rimini, S. C.

Location.--Lat 33°39', long 80°32', on Atlantic Coast Line Railroad bridge, 2.6 miles southwest of Rimini, Clarendon County, and 10 miles downstream from confluence of Congaree and Wateree Rivers.

Drainage area.--14,194 sq mi (determined by U.S. Weather Bureau).

Gage.--Nonrecording. Datum of gage is 59.12 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Not defined.

Bankfull stage.--12 ft.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Peaks affected since August 1929 by storage in Lake Murray and to a lesser degree since 1904 by storage in reservoirs on Catawba, Wateree, and Broad Rivers. From 1942, gage heights are affected by backwater from Lake Marion and records are not included. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	-	a32.3	-	1923	Mar. 22, 1923	20.0	-
				1924	July 13, 1924	16.6	-
1903	May 10, 1903	22	-	1925	Jan. 23, 1925	23.8	-
1907	Oct. 25, 1906	14.9	-	1926	Mar. 4, 1926	14.8	-
1908	Aug. 30, 1908	33.8	-	1927	Mar. 1, 1927	13.9	-
1909	June 9, 1909	21.8	-	1928	Aug. 21, 1928	30.4	-
1910	Mar. 7, 1910	15.8	-	1929	Mar. 9, 1929	25.3	-
				1930	Oct. 6, 1929	31.8	-
1911	Oct. 13, 1910	13.7	-				
1912	Mar. 20, 1912	27.4	-	1931	Apr. 6, 1931	14.0	-
1913	Mar. 20, 1913	22.9	-	1932	Jan. 14, 1932	19.8	-
1914	Jan. 7, 1914	16.4	-	1933	Oct. 22, 1932	18.9	-
1915	Jan. 23, 1915	18.7	-	1934	June 10, 1934	15.5	-
				1935	Oct. 16, 1934	15.9	-
1916	July 20, 1916	35.8	-				
1917	Mar. 10, 1917	18.7	-	1936	Apr. 10, 1936	33.5	-
1918	Feb. 5, 1918	16.2	-	1937	Jan. 10, 1937	18.8	-
1919	July 26, 1919	23.3	-	1938	July 30, 1938	14.5	-
1920	Apr. 9, 1920	17.3	-	1939	Mar. 6, 1939	21.4	-
				1940	Aug. 20, 1940	18.4	-
1921	Feb. 14, 1921	23.8	-				
1922	Feb. 20, 1922	21.4	-	1941	July 22, 1941	18.6	-

a From information by D. C. Stondenmire of Lone Star, S. C.

SANTEE RIVER BASIN

1700. Santee River at Ferguson, S. C.

Location.--Lat 33°26'15", long 80°16'20", at Ferguson, Orangeburg County, 4 miles downstream from Eutaw Creek.

Drainage area.--14,600 sq mi.

Gage.--Nonrecording prior to Nov. 23, 1921; recording thereafter. Datum of gage is 42.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 260,000 cfs and extended on basis of velocity-area studies.

Bankfull stage.--12 ft.

Remarks.--Gage heights prior to Nov. 23, 1921, furnished by the U.S. Weather Bureau. Peaks affected since August 1929 by storage in Lake Murray and to a lesser degree since 1904 by storage in reservoirs on Catawba, Wateree, and Broad Rivers. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Aug. 31, 1908	23.7	344,000	1926	Mar. 3, 1926	13.43	35,900
1909	June 10, 1909	15.62	101,000	1927	Mar. 2, 1927	13.30	32,500
1910	Mar. 7-9, 1910	13.9	50,000	1928	Aug. 22, 1928	20.60	251,000
				1929	Mar. 10, 1929	17.55	160,000
1911	Jan. 10, 1911	13.47	38,000	1930	Oct. 7, 1929	21.04	263,000
1912	Mar. 20, 1912	19.44	215,000				
1913	Mar. 21, 1913	15.56	101,000	1931	Jan. 19, 1931	12.88	26,000
1914	Jan. 6, 7, 1914	14.02	53,000	1932	Jan. 15, 1932	13.95	53,000
1915	Jan. 24, 1915	14.65	71,000	1933	Jan. 3, 1933	14.08	56,000
				1934	June 11-14, 1934	a13.80	47,000
1916	July 21, 1916	24.74	374,000	1935	Oct. 17, 1934	13.81	47,000
1917	Mar. 10, 1917	14.7	74,000				
1918	Feb. 6, 1918	13.9	50,000	1936	Apr. 11, 1936	20.42	245,000
1919	July 27, 1919	17.12	146,000	1937	Jan. 11, 1937	14.19	59,000
1920	Apr. 3, 1920	14.0	53,000	1938	Oct. 27, 1937	13.54	38,000
				1939	Mar. 7, 1939	15.10	86,000
1921	Feb. 15, 1921	17.47	158,000	1940	Aug. 21, 1940	14.07	56,000
1922	Feb. 21, 1922	15.77	106,000				
1923	Mar. 23, 1923	15.2	89,000	1941	July 23, 24, 1941	b15.98	c48,000
1924	Jan. 23, 1924	13.87	50,000				
1925	Jan. 23, 1925	17.13	146,000				

a Occurred on June 12, 1934.

b Affected by backwater; occurred on July 25, 1941.

c Maximum daily discharge.

1715. Santee River near Pineville, S. C.

Location.--Lat 33°27'15", long 80°09'25", on right bank 2.4 miles downstream from Lake Marion Dam, 3.0 miles upstream from Dead River, and 6.7 miles west of Pineville, Berkeley County.

Drainage area.--14,700 sq mi, approximately.

Gage.--Recording. Datum of gage is 23.00 ft above mean sea level (levels by South Carolina Public Service Authority).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended on basis of computations of peak flow over spillway at Lake Marion up to 110,000 cfs and by logarithmic plotting.

Bankfull stage.--21 ft.

Remarks.--Peak discharges regulated by storage in Lake Marion. Only annual peaks are shown.

Peak stages and discharges of Santee River near Pineville, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942a/	June 15, 1942	18.06	14,300	1951	June 24, 1951	d2.55	617
1943	Mar. 24-28, 1943	b23.23	32,300	1952	Mar. 11, 1952	27.77	89,900
1944	Mar. 24, 1944	29.52	122,000	1953	Mar. 25, 1953	7.15	2,830
1945	Sept. 23, 1945	31.1	155,000	1954	Apr. 17, 1954	3.53	1,140
				1955	Oct. 15, 1954, Sept. 8, 1955	e2.34	653
1946	Jan. 9, 1946	25.50	55,800				
1947	Feb. 8, 1947	30.04	132,000				
1948	Feb. 17, 1948	26.35	73,800	1956	Apr. 7, 1956	2.51	744
1949	Dec. 4, 1948	28.56	114,000	1957	Apr. 6, 1957	3.12	989
1950	Aug. 18, Sept. 8, 1950	c3.27	782	1958	Nov. 30, 1957	25.85	59,700
				1959	July 27, 1959	12.35	6,840

a No record Oct. 1 to Apr. 24.
Nov. 25, 1949.

b Occurred on Mar. 27, 1943.

c Occurred on
Oct. 15, 1954.

1716. Santee River near St. Stephens, S. C.

Location.--Lat 33°27', long 79°54', on downstream side of center pier of Atlantic Coast Line Railroad bridge, 3.7 miles north of St. Stephens, Berkeley County, and 6.9 miles upstream from Mattassee Lake.

Drainage area.--14,900 sq mi, approximately.

Gage.--Nonrecording.

Stage-discharge relation.--Not defined.

Historical data.--Flood of Sept. 18, 1888, was highest known before collection of records began, according to publication of the U.S. Weather Bureau dated 1893.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	Sept. 18, 1888	20.2	-	1900	Apr. 29, 1900	15.5	-
1893	Sept. 8, 1893	15.3	-	1901	May 31, 1901	16.0	-
1894	Nov. 1, 1893	10.8	-	1902	Jan. 7, 1902	15.2	-
1895	Jan. 18, 1895	13.2	-	1903	Mar. 31, 1903	15.6	-
				1904	Aug. 19, 1904	9.6	-
1896	July 18, 1896	13.6	-	1905	Aug. 20, 1905	11.2	-
1897	Feb. 15, 1897	13.7	-				
1898	Sept. 3-7, 1898	8.7	-	1906	Feb. 3, 1906	12.3	-
1899	Feb. 15, 1899	15.4	-	1907	Oct. 31, 1906	9.7	-

EDISTO RIVER BASIN

1725. South Fork Edisto River near Montmorenci, S. C.

Location.--Lat 33°34'35", long 81°30'50", near center of span on downstream side of bridge on State Highway 215, 0.4 mile upstream from Cedar Creek, 1 mile upstream from Shaw Creek, and 7.6 miles northeast of Montmorenci, Aiken County.

Drainage area.--198 sq mi.

Gage.--Nonrecording prior to Oct. 29, 1954; recording thereafter. Datum of gage is 250.18 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--6 ft.

Remarks.--Peaks are from graphs based on gage readings prior to Oct. 29, 1954. Base for partial-duration series, 900 cfs.

EDISTO RIVER BASIN

Peak stages and discharges of South Fork Edisto River near Montmorenci, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)		
1940	Aug. 15, 1940	8.81	a2,460	1948	Mar. 25, 1948	7.30	1,160		
1941	July 1, 1941	7.24	1,080	1948	Apr. 3, 1948	7.25	1,080		
	July 8, 1941	7.92	1,650	1948	Apr. 9, 1948	7.16	1,080		
	July 19, 1941	8.81	2,460	1949	Nov. 30, 1948	7.27	1,240		
	Aug. 6, 1941	8.55	2,090		Jan. 1, 1949	6.86	935		
	1942	Dec. 25, 1941	7.28		1,160	Feb. 11, 1949	7.03	1,080	
Mar. 4, 1942		6.98	935		May 2, 1949	7.20	1,080		
Mar. 10, 1942		7.88	1,650		Aug. 19, 1949	7.47	1,240		
Mar. 23, 1942		7.60	1,400	Aug. 23, 1949	7.16	1,010			
Apr. 12, 1942		7.32	1,160	Aug. 30, 1949	8.52	2,180			
1943	Nov. 25, 1942	7.50	1,320	1950	Sept. 9, 1950	6.86	685		
	Jan. 21, 1943	7.38	1,240	1951	Apr. 5, 1951	6.71	615		
	Mar. 8, 1943	7.25	1,080	1952	Mar. 6, 1952	8.21	2,040		
	Mar. 23, 1943	7.98	1,740		Mar. 26, 1952	7.22	1,130		
1944	Dec. 28, 1943	7.47	1,320	1953	May 8, 1953	7.62	1,400		
	Mar. 8, 1944	7.10	1,010	1953	Sept. 28, 1953	7.56	1,400		
	Mar. 24, 1944	8.71	2,370	1954	Dec. 15, 1953	7.07	858		
1945	Apr. 27, 1945	6.97	898		1955	Apr. 16, 1955	8.16	1,790	
	1946	Apr. 19, 1946	b6.73	898	1956	Apr. 13, 1956	6.75	755	
		Oct. 10, 1946	7.47	1,320		1957	May 14, 1957	6.90	750
		Jan. 16, 1947	7.00	935		1958	Jan. 26, 1958	7.53	1,360
Apr. 4, 1947		7.33	1,160	Apr. 18, 1958			7.82	1,560	
Apr. 16, 1947	7.05	972	1959	Mar. 8, 1959	7.48	1,320			
1948	Nov. 13, 1947	7.40		1,240	May 10, 1959	8.33	1,990		
	Dec. 23, 1947	7.48		1,320					
	Feb. 10, 1948	7.32		1,160					
	Mar. 9, 1948	7.62		1,400					
	Mar. 19, 1948	7.06	970						

a Annual peak.

b Occurred on Dec. 28, 1945.

1730. South Fork Edisto River near Denmark, S. C.

Location.--Lat 33°23'35", long 81°08'00", on left bank at downstream side of bridge on U.S. Highway 321, 200 ft downstream from Seaboard Air Line Railroad bridge, 1.8 miles downstream from Little River, and 4.8 miles north of Denmark, Bamberg County.

Drainage area.--720 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 27, 1931; recording thereafter. Datum of gage is 155.68 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended on basis of velocity-area studies and logarithmic plotting.

Bankfull stage.--6 ft.

Historical data.--Flood in October 1929 is maximum stage known since at least 1893.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	October 1929	all.7	17,100	1941	July 22, 1941	7.91	2,060
1932	Aug. 12, 1932	8.47	2,930	1942	Dec. 26, 1941	8.06	2,840
	Nov. 4, 1932	8.07	2,290	1943	Mar. 24, 1943	7.62	2,080
1933	June 5, 1934	8.51	2,850	1944	Mar. 25, 1944	8.24	3,220
1934	Aug. 22, 1935	8.36	2,640	1945	Sept. 19, 1945	8.32	3,310
1935	Apr. 11, 1936	10.91	13,500	1946	Jan. 1, 1946	7.40	1,740
	Oct. 14, 1936	8.03	2,260	1947	Aug. 15, 1947	b7.40	2,040
1936	Apr. 10, 1938	8.20	2,470	1948	Feb. 14, 1948	8.38	4,010
1937	Mar. 3, 1939	9.05	4,860	1949	Oct. 5, 1948	8.30	3,810
1938	Aug. 19, 1940	7.92	2,060	1950	Mar. 9, 1950	6.89	1,210

a From information by State Highway Department.

b Occurred on Apr. 19, 1947.

Peak stages and discharges of South Fork Edisto River near Denmark, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 2, 1951	6.97	1,320	1956	Feb. 8, 1956	6.91	1,350
1952	Mar. 26, 1952	7.59	2,390	1957	Mar. 27, 1957	6.70	1,030
1953	Sept. 29, 1953	7.56	2,600	1958	Apr. 17, 1958	8.00	3,210
1954	Dec. 16, 1953	7.25	1,750	1959	May 14, 1959	7.70	2,810
1955	Apr. 20, 1955	7.19	1,640				

1735. North Fork Edisto River at Orangeburg, S. C.

Location.--Lat 33°29'00", long 80°52'25", on left bank under bridge on U.S. Highway 301 at Orangeburg, Orangeburg County, 0.5 mile upstream from Atlantic Coast Line Railroad bridge and 1½ miles downstream from Caw Caw Swamp.

Drainage area.--683 sq mi.

Gage.--Nonrecording prior to Feb. 23, 1939; recording thereafter. Datum of gage is 149.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended on basis of velocity-area studies and logarithmic plotting.

Bankfull stage.--6 ft.

Historical data.--Flood in September 1928 is maximum stage known since at least 1893.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	September 1928	14.7	10,000	1949	Aug. 29, 1949	10.47	4,560
				1950	Sept. 10, 1950	8.07	1,800
1939	Mar. 3, 1939	9.98	3,910	1951	Apr. 10, 1951	7.50	1,370
1940	Aug. 19, 1940	8.59	2,340	1952	Mar. 25, 1952	8.54	2,410
1941	June 29, 1941	11.00	5,210	1953	Sept. 29, 1953	8.43	2,160
1942	Dec. 26, 1941	8.96	2,670	1954	Apr. 10, 1954	7.73	1,420
1943	Mar. 24, 1943	8.20	1,930	1955	Apr. 20, 1955	7.78	1,420
1944	Mar. 25, 1944	8.90	2,620				
1945	Sept. 18, 1945	14.28	9,500	1956	Feb. 8, 1956	7.44	1,160
1946	Jan. 1, 1946	7.90	1,670	1957	June 17, 1957	7.62	1,250
1947	Apr. 18, 1947	8.16	1,880	1958	May 1, 1958	9.73	3,340
1948	Sept. 7, 1948	10.25	4,170	1959	May 14, 1959	8.87	2,570

a From information by Department of Public Utilities, city of Orangeburg.

1736. Edisto River at Edisto, S. C.

Location.--Lat 33°16', long 80°53', on downstream side of Southern Railway bridge at Edisto (Embree), Bamberg County, 0.3 mile below confluence of North Fork and South Fork Edisto River and 4.2 miles west of Branchville.

Drainage area.--1,640 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 100 ft (from topographic map).

Stage-discharge relation.--Not defined.

Bankfull stage.--7 ft.

Remarks.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau. Only annual peak stages are shown.

EDISTO RIVER BASIN

Peak stages of Edisto River at Edisto, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1889	July 1889	8.5	-	1913	Mar.17,18, 1913	6.3	-
1894	Aug. 9, 1894	6.2	-	1914	Mar.3-7, Aug.10, 11, 1914	4.6	-
1895	Oct. 13, 1894	6.9	-	1915	Jan.21,22,1915	6.0	-
1896	Feb. 12, 1896	6.6	-	1916	July 21, 1916	6.8	-
1897	Aug. 26, 1897	6.6	-	1917	Jan. 28, 1917	5.5	-
1898	Sept.12, 1898	6.0	-	1918	Oct. 4, 1917	5.8	-
1899	Feb. 13, 1899	6.5	-	1919	July 26-28,1919	7.8	-
1900	Apr.25,26, 1900	6.6	-	1920	Apr. 4,5,1920	6.4	-
1901	May 27, 1901	6.5	-	1925	January 1925	a7.4	-
1902	Apr.21,22,1902	5.9	-	1928	September 1928	a8.5	-
1903	Aug. 26, 1903	5.9	-				
1905	Feb.21-23,1905	5.8	-	1930	October 1929	a8.5	-
1906	June 18, 1906	6.2	-	1936	April 1936	a7.4	-
1907	July 2, 1907	5.5	-	1940	August 1940	a6.1	-
1912	Jan. 11, 1912	6.6	-				

a From information by Corps of Engineers.

1740. Edisto River near Branchville, S. C.

Location.--Lat 33°10'35", long 80°48'05", on right bank 400 ft downstream from bridge on U.S. Highway 21, 4.7 miles downstream from Brier Branch, and 5.2 miles south of Branchville, Orangeburg County.

Drainage area.--1,720 sq ml, approximately.

Gage.--Recording. Datum 1.00 ft higher prior to May 19, 1949, but gage heights are adjusted to present datum. Datum of gage is 80.02 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended on basis of conveyance-slope study at 25,700 cfs.

Historical data.--Flood in September 1928 is maximum stage known since at least 1893.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	September 1928	a13.5	25,700	1953	Mar. 3, 1953	8.27	4,950
1946	Jan.1-4, 1946	b7.75	4,100	1954	Oct. 3, 1953	6.79	3,030
	Apr.18,19,1947	c8.23	4,870	1955	Apr. 24, 1955	6.43	2,690
1947	Apr. 4, 1948	9.95	9,140	1956	Feb.11,12,1956	e6.64	3,030
1948	Apr. 4, 1948	9.95	9,140	1957	Mar. 30 to Apr. 1,1957	f5.63	2,200
1949	Oct. 6, 1948	10.21	10,000	1958	Apr.19,20, 1958	g9.30	8,050
1950	Mar.11-13,1950	d6.22	2,540	1959	Mar. 9, 1959	8.36	5,150
1951	Apr. 3, 1951	7.36	3,640				
1952	Mar.28 or 29, 1952	8.47	5,350				

a From information by State Highway Department.

b Occurred on Jan. 4, 1946.

c Occurred on Apr. 18, 1947.

d Occurred on Mar. 12, 1950.

e Occurred on Mar. 20, 1956.

f Occurred on Mar. 31, 1957.

g Occurred on Apr. 19, 1958.

1750. Edisto River near Givhans, S. C.

Location.--Lat 33°01'40", long 80°23'30", on left bank at downstream side of bridge on State Highway 61, 2.3 miles downstream from Four Hole Swamp and 2.8 miles west of Givhans, Dorchester County.

Drainage area.--2,730 sq mi, approximately.

Gage.--Recording. Datum of gage is 20.46 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended by logarithmic plotting.

Bankfull stage.--9 ft.

Historical data.--Flood of February 1925 is the maximum stage known since at least 1904 (from investigation by Charleston Commissioners of Public Works).

Remarks.--Peaks prior to 1939 are based on gage readings furnished by Charleston Commissioners of Public Works adjusted to present site and datum. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	August 1904	a17.0	-	1946	Jan. 24, 1946	11.58	8,940
				1947	Apr. 22, 1947	11.38	8,540
1919	July 31, 1919	a14.0	-	1948	Apr. 6, 1948	14.38	15,200
				1949	Dec. 3, 1948	14.62	15,800
1924	September 1924	a15.5	-	1950	Sept. 12, 1950	8.66	4,090
1925	February 1925	a17.5	24,900	1951	Apr. 8, 1951	c9.21	4,790
				1952	Apr. 2, 1952	11.27	7,950
1928	Sept. 11, 1928	a15.7	19,500	1953	Mar. 7, 1953	12.26	10,400
				1954	Dec. 27-29, 1953,	d7.91	3,610
1939	Mar. 6, 1939	14.68	16,900	1954	Jan. 6, 7, 1954		
1940	Aug. 15, 1940	13.03	12,600	1955	Sept. 16, 1955	8.81	4,540
1941	July 5, 1941	12.64	10,800				
1942	Dec. 30, 1941	13.48	13,100	1956	Feb. 13-15, 1956	e9.54	5,440
1943	Mar. 29, 1943	b11.32	8,010	1957	May 21, 1957	7.89	3,610
1944	Mar. 30, 1944	13.44	13,100	1958	Apr. 22, 23, 1958	f13.13	12,000
1945	Sept. 21, 1945	17.28	24,300	1959	Mar. 9, 1959	13.90	14,100

a From information by Charleston Commissioners of Public Works. b Occurred on Mar. 30, 1943. c Occurred on Apr. 9, 1951. d Occurred on Jan. 6, 1954. e Occurred on Feb. 14, 1956. f Occurred on Apr. 22, 1958.

COMBAHEE RIVER BASIN

1755. Salkehatchie River near Miley, S. C.

Location.--Lat 32°59'20", long 81°03'10", near right bank at downstream side of bridge on U.S. Highway 601, 2.6 miles downstream from Savannah Creek, 3.1 miles upstream from Hampton & Branchville Railroad bridge, and 3.1 miles northwest of Miley, Hampton County.

Drainage area.--341 sq mi.

Gage.--Nonrecording. Datum of gage is 64.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peaks are from graphs based on gage readings. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 2, 3, 1951	a3.92	774	1956	May 6, 1956	c3.93	774
1952	Mar. 28, 29, 1952	b4.02	905	1957	Mar. 28, 1957	3.63	752
1953	Sept. 30, 1953	4.04	950	1958	Apr. 17, 1958	4.21	1,140
1954	May 15, 1954	3.87	860	1959	Mar. 7, 1959	4.61	1,600
1955	Apr. 15, 1955	4.02	950				

a Occurred on Apr. 2, 1951. b Occurred on Mar. 28, 1952. c Occurred on Feb. 11, 1956.

COMBAHEE RIVER BASIN

1760. Combahee River near Yemassee, S. C.

Location.--Lat 32°42'25", long 80°49'35", near left bank on downstream side of pile bent of bridge on U.S. Highway 17A, 0.2 mile upstream from Atlantic Coast Line Railroad bridge, 1.8 miles northeast of Yemassee, Hampton County, and 5 miles downstream from Black Creek.

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

Gage.--Recording prior to June 30, 1957; crest-stage gage thereafter. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended on basis of velocity-area studies.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Feb. 19, 1952	7.51	3,530	1956	Feb. 10, 1956	7.96	4,680
1953	Mar. 7, 8, 1953	a7.32	3,110	1957	June 6, 1957	6.71	2,150
1954	May 18, 1954	7.51	3,530	1958	Apr. 19, 1958	6.22	7,930
1955	Apr. 18, 1955	8.18	5,330	1959	Mar. 7, 1959	10.16	9,850

a Occurred on Mar. 8, 1953.

BROAD RIVER BASIN

1765. Coosawhatchie River near Hampton, S. C.

Location.--Lat 32°50'10", long 81°07'55", near left bank on downstream side of bridge on U.S. Highway 601, 1.6 miles downstream from Black Creek and 2.5 miles southwest of Hampton, Hampton County.

Drainage area.--203 sq mi.

Gage.--Nonrecording prior to Oct. 26, 1954; recording thereafter. Datum of gage is 50.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs and extended on basis of velocity-area studies.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 1, 1951	4.82	1,220	1956	Feb. 7, 1956	4.98	1,390
1952	Feb. 16, 1952	5.20	1,780	1957	May 31, 1957	4.26	649
1953	Mar. 24, 1953	5.78	2,750	1958	Apr. 16, 1958	5.07	1,400
1954	May 16, 1954	5.45	2,360	1959	Mar. 6, 1959	5.87	2,950
1955	Apr. 15, 1955	5.05	1,430				

1770. Chattooga River near Clayton, Ga.

Location--Lat 34°49', long 83°18', on left bank 150 ft downstream from new bridge on U.S. Highway 76, 2 $\frac{3}{4}$ miles upstream from Stekoa Creek, 7 miles southeast of Clayton, Rabun County, 9 miles downstream from War Woman Creek, and 9 miles upstream from confluence with Tallulah River.

Drainage area--207 sq mi.

Gage--Recording. Datum of gage is 1,165.6 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by State Highway Department of Georgia).

Stage-discharge relation--Defined by current-meter measurements below 4,700 cfs and extended above on basis of slope-area measurements at 15,700 cfs and 29,000 cfs.

Remarks--Stage records for 1915, 1928, and 1929 from Georgia Power Co. Base for partial-duration series, 3,400 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)				
1915	Oct. 15, 1914	a8.25	12,600	1949	July 18, 1949	5.63	4,020				
1928	Aug. 15, 1928	a10.9	20,100		Aug. 28, 1949	4.80	4,840				
					Sept. 6, 1949	5.65	6,440				
1929	Sept. 26, 1929	a7.7	11,400	1950	Mar. 13, 1950	4.73	4,740				
1940	Apr. 19, 1940	4.85	4,170		Sept. 8, 1950	4.20	3,750				
					Aug. 15, 1940	9.92	15,700				
					Aug. 30, 1940	13.8	29,000				
1951	Oct. 20, 1950	4.65	4,560	1952	Dec. 7, 1950	5.02	5,220				
1941	July 7, 1941	6.10	7,530		Dec. 21, 1951	5.0	5,220				
1942	Feb. 17, 1942	5.75	6,870		Mar. 11, 1952	8.5	13,400				
					Mar. 9, 1942	4.15	3,660	Mar. 23, 1952	6.0	7,310	
1943	Dec. 4, 1942	4.00	3,410		Feb. 21, 1953	5.4	6,020				
					Dec. 29, 1942	5.8	6,870				
					Jan. 19, 1943	4.37	4,010				
					Apr. 19, 1943	4.71	4,650				
1944	Mar. 19, 1944	4.25	3,840		1954	Jan. 16, 1954	4.8	4,840			
					Mar. 29, 1944	4.17	3,660	Jan. 22, 1954	5.5	6,230	
					1955	Dec. 30, 1954	4.54	4,370			
1945	Apr. 17, 1945	3.70	2,930		Feb. 6, 1955	5.3	5,820				
					1956	Apr. 16, 1956	5.3	5,820			
1946	Dec. 25, 1945	4.32	3,920		Mar. 22, 1955	4.40	4,100				
					Jan. 7, 1946	5.50	6,230	May 22, 1955	4.00	3,410	
					Jan. 9, 1946	4.57	4,370	1957	Apr. 16, 1956	5.3	5,820
					Feb. 10, 1946	5.70	6,650	Feb. 1, 1957	4.47	4,190	
					Mar. 28, 1946	5.25	5,620	Apr. 5, 1957	5.34	5,820	
1947	Jan. 20, 1947	5.57	6,440		June 28, 1957	4.20	3,570				
					Apr. 16, 1947	3.99	3,410	1958	Nov. 19, 1957	5.20	5,620
					1959	Dec. 20, 1957	5.00	5,220			
1948	Feb. 12, 1948	4.05	3,500		July 8, 1958	4.42	4,100				
					Mar. 7, 1948	4.36	4,010	1959	Jan. 22, 1959	4.49	4,280
					July 12, 1948	8.11	12,400	Apr. 12, 1959	4.30	3,920	
					Sept. 6, 1948	5.77	6,870	May 31, 1959	5.17	5,620	
1949	Nov. 3, 1948	4.50	4,280		1960	Oct. 9, 1959	5.60	6,440			
					Nov. 6, 1948	4.69	4,650	Feb. 5, 1960	4.27	3,840	
					Nov. 28, 1948	5.33	5,820	Feb. 10, 1960	4.15	3,660	
					Jan. 5, 1949	5.85	6,870	Mar. 30, 1960	4.68	4,650	
					Apr. 13, 1949	4.38	4,100	1961	Feb. 23, 1961	4.34	4,010
					June 16, 1949	8.66	13,900	Feb. 25, 1961	6.0	7,310	
					July 12, 1949	4.38	4,100	June 21, 1961	4.15	3,660	
	July 15, 1949	4.17	3,750								

a From Georgia Power Co.

SAVANNAH RIVER BASIN

1780. Chattooga River near Tallulah Falls, Ga.

Location.--Lat 34°47', long 83°19', on right bank 300 ft upstream from Camp Creek, 5½ miles upstream from confluence with Tallulah River, and 8 miles east of Tallulah Falls, Rabun County.

Drainage area.--256 sq mi.

Gage.--Nonrecording prior to Aug. 18, 1917; recording thereafter. Altitude of gage is 960 ft (from Corps of Engineers river profile).

Stage-discharge relation.--Defined by current-meter measurements below 5,800 cfs and extended above on basis of computation of peak flows passing station near Clayton.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Mar. 24, 1917	14.0	17,600	1924	Sept. 20, 1924	10.68	11,500
1918	Jan. 28, 1918	8.0	7,410	1925	Dec. 8, 1924	6.10	4,840
1919	Dec. 22, 1918	15.0	19,600				
1920	Dec. 9, 1919	9.90	10,200	1926	Jan. 18, 1926	8.25	7,760
				1927	Dec. 26, 1926	5.78	4,470
1921	Feb. 10, 1921	6.30	5,100	1928	Aug. 15, 1928	16.4	22,400
1922	Jan. 21, 1922	8.20	7,690	1929	Sept. 26, 1929	12.3	14,200
1923	Dec. 17, 1922	7.43	6,610				

1820. Panther Creek near Toccoa, Ga.

Location.--Lat 34°41', long 83°21', on left bank at Yonah Dam settlement, a quarter of a mile upstream from mouth and 7 miles north of Toccoa, Stephens County.

Drainage area.--32.5 sq mi.

Gage.--Recording. Datum of gage is 673.53 ft above mean sea level, datum of 1929 (levels by Georgia Power Co.).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended above on basis of slope-area measurement at 15,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Gage-height record prior to 1943 furnished by Georgia Power Co. Base for partial-duration series, 900 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Feb. 23, 1927	4.7	1,050	1948	July 11, 1948	7.0	2,430
1928	Aug. 15, 1928	8.4	3,500		July 16, 1948	5.1	1,250
1929	Sept. 25, 1929	8.4	3,500		Aug. 4, 1948	6.5	2,080
1930	Mar. 8, 1930	3.8	850				
				1949	Nov. 3, 1948	9.17	4,180
1931	Nov. 16, 1930	3.1	385		Nov. 28, 1948	7.42	2,710
1932	Dec. 14, 1931	5.9	1,710		Jan. 5, 1949	7.09	2,500
1933	Oct. 16, 1932	6.8	2,290		Apr. 13, 1949	4.65	1,020
1934	June 6, 1934	8.3	3,420		June 16, 1949	16.0	15,100
1935	Oct. 6, 1934	7.5	2,780		Sept. 6, 1949	8.03	3,180
				1950	June 8, 1950	4.67	1,020
1936	Sept. 29, 1936	17.0	13,500				
1937	Dec. 31, 1936	5.5	1,470	1951	Oct. 20, 1950	4.18	810
1938	Oct. 18, 1937	6.6	2,150				
1939	Aug. 17, 1939	12.7	7,750	1952	Dec. 21, 1951	5.1	1,250
1940	Aug. 13, 1940	9.6	4,540		Mar. 3, 1952	4.84	1,120
					Mar. 11, 1952	6.4	3,500
1941	July 7, 1941	6.9	2,360		Mar. 23, 1952	7.1	2,500
1942	Feb. 16, 1942	8.9	3,910				
1943	Apr. 19, 1943	6.8	2,180	1953	July 20, 1953	6.15	1,830
1944	Mar. 19, 1944	7.2	2,430		July 22, 1953	6.78	3,740
1945	Sept. 16, 1945	4.18	814				
				1954	Jan. 16, 1954	5.9	1,710
1946	Jan. 6, 1946	11.3	6,200		Jan. 22, 1954	7.2	2,570
1947	Jan. 20, 1947	5.9	1,660				

Peak stages and discharges of Panther Creek near Toccoa, Ga.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 6, 1955	6.4	2,010	1959	May 31, 1959	5.6	1,530
1956	Apr. 15, 1956	4.85	1,150	1960	Feb. 5, 1960	4.60	1,000
1957	Apr. 4, 1957	4.20	810	1961	Feb. 21, 1961	4.83	1,120
1958	Nov. 19, 1957	3.65	592		Feb. 25, 1961	6.7	2,220

1830. Tugaloo River near Madison, S. C.
(Published as "at Madison" prior to 1900)

Location.--Lat 34°36'40", long 83°12'40", 900 ft downstream from bridge on U.S. Highway 123 (site of old Southern Railway bridge), 1.2 miles south of Madison, Oconee County, and 2.2 miles downstream from Toccoa Creek.

Drainage area.--593 sq mi.

Gage.--Nonrecording. At site $1\frac{1}{2}$ miles downstream at different datum prior to Jan. 18, 1902. Datum of gage is 630.10 ft above mean sea level.

Stage-discharge relation.--Not defined for flood stages.

Remarks.--Peaks are from graphs based on gage readings. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1899	Oct. 5, 1898	22.3	-	1905	July 1, 1905	26.2	-
1900	Feb. 13, 1900	21.6	-	1906	Jan. 3, 1906	22.4	-
1901	Apr. 20, 1901	23.2	-	1907	Oct. 3, 1906	17.2	-
				1908	Feb. 15, 1908	20.9	-
1904	Mar. 7, 1904	14.3	-	1909	June 4, 1909	22.1	-

1840. Tugaloo River near Hartwell, Ga.

Location.--Lat 34°29', long 82°55', on right bank three-quarters of a mile upstream from Beaverdam Creek, 5 miles upstream from confluence with Seneca River, and 10 miles north of Hartwell, Hart County.

Drainage area.--909 sq mi.

Gage.--Recording. April 1925 to September 1927 at datum about 1 ft higher. Altitude of gage is 570 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--12 ft.

Remarks.--Flow is partly regulated by powerplants above station and by Burton and Mathis Reservoirs on the Tallulah River. Burton Reservoir, completed in 1920, and Mathis Reservoir, completed in 1914, have a combined usable capacity of 129,000 acre-ft and regulate the flow from 150 sq mi of Tallulah River basin. Base for partial-duration series, 10,000 cfs. Only annual peaks are shown prior to 1948.

SAVANNAH RIVER BASIN

Peak stages and discharges of Tugaloo River near Hartwell, Ga.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 18, 1926	7.76	18,200	1951	Oct. 20, 1950	8.22	15,300
1927	Dec. 29, 1926	5.67	9,140	1952	Dec. 21, 1951	9.2	20,300
1940	Aug. 31, 1940	10.8	28,600	Mar. 4, 1952	9.0	19,200	
1941	July 7, 1941	7.8	13,200	Mar. 11, 1952	10.0	25,100	
1942	Feb. 17, 1942	9.4	20,500	Mar. 23, 1952	8.8	18,200	
1943	Dec. 29, 1942	8.7	17,400	1953	Feb. 21, 1953	8.25	15,300
1944	Mar. 20, 1944	8.96	18,800	1954	Jan. 16, 1954	8.98	19,200
1945	Feb. 23, 1945	6.55	8,600	Jan. 23, 1954	8.26	15,800	
1946	Jan. 7, 1946	10.3	25,400	1955	Feb. 7, 1955	8.67	18,200
1947	Jan. 20, 1947	8.25	15,200	1956	Feb. 6, 1956	7.10	10,600
1948	Feb. 13, 1948	6.9	10,300	Mar. 16, 1956	7.51	12,400	
	July 13, 1948	8.98	18,800	Apr. 16, 1956	7.64	12,800	
	Aug. 4, 1948	7.5	12,400	1957	Apr. 5, 1957	8.5	16,700
1949	Nov. 3, 1948	8.1	14,900	1958	Nov. 19, 1957	6.9	10,300
	Nov. 29, 1948	9.3	20,800	1959	Apr. 13, 1959	7.3	11,300
	Jan. 6, 1949	9.1	19,700	June 1, 1959	7.6	12,800	
	Feb. 20, 1949	7.1	11,000	Sept. 7, 1959	7.0	10,600	
	Mar. 23, 1949	7.0	10,600	1960	Feb. 6, 1960	7.6	12,400
	Apr. 30, 1949	8.0	14,400	Mar. 31, 1960	7.6	12,400	
	June 17, 1949	10.4	27,800				
	July 13, 1949	7.1	10,900				
	Aug. 17, 1949	8.3	15,800				
	Sept. 7, 1949	9.5	22,000				
1950	Sept. 9, 1950	7.61	12,800				

1845. Whitewater River at Jocassee, S.C.

Location.--Lat 34°58'19", long 82°56'24", on right bank at highway bridge at Jocassee, Oconee County, 0.8 mile upstream from confluence with Toxaway River.

Drainage area.--47.3 sq mi.

Gage.--Recording. Datum of gage is 777.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended on basis of velocity-area studies.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951 ^a	Mar. 29, 1951	4.56	1,550	1955	May 22, 1955	5.08	2,020
1952	Dec. 4, 1951	4.97	1,890	1956	Apr. 15, 1956	5.10	2,020
	Dec. 20, 1951	4.92	1,840	1957	Jan. 31, 1957	4.50	1,500
	Feb. 3, 1952	4.88	1,840	Feb. 26, 1957	4.92	1,840	
	Mar. 11, 1952	11.17	7,120	Apr. 4, 1957	6.31	3,120	
	Mar. 23, 1952	6.13	2,860	1958	Nov. 14, 1957	4.97	1,890
	Apr. 25, 1952	4.51	1,520	Nov. 19, 1957	5.02	1,970	
1953	Feb. 21, 1953	6.53	3,200	Dec. 20, 1957	5.80	2,610	
	Mar. 23, 1953	5.40	2,270	1959	Apr. 12, 1959	4.97	1,970
1954	Jan. 22, 1954	6.38	3,120	May 21, 1959	4.84	1,840	
1955	Dec. 29, 1954	5.00	1,930	May 26, 1959	4.65	1,680	
	Feb. 6, 1955	5.58	2,440	May 31, 1959	5.11	2,060	
	Mar. 22, 1955	4.57	1,590	July 21, 1959	4.47	1,500	
	May 16, 1955	4.88	1,840	Aug. 31, 1959	5.09	2,020	

^a No record Oct. 1 to Dec. 31.

1850. Keowee River near Jocassee, S.C.

Location.--Lat 34°57'21", long 82°54'41", on right bank 0.6 mile downstream from bridge on State Highway 11, 1.8 miles southeast of Jocassee, Oconee County, and 2.6 miles upstream from Eastatoe Creek.

Drainage area.--148 sq mi.

Gage.--Recording. Datum of gage is 737.43 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 8,500 cfs and extended on basis of velocity-area studies and logarithmic plotting.

Bankfull stage.--20 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950a/	Dec. 26, 1949	6.24	5,190	1955	Dec. 29, 1954	6.53	5,660
	Mar. 13, 1950	5.76	4,750		Feb. 6, 1955	7.77	7,100
	June 8, 1950	6.23	5,190		May 22, 1955	6.14	5,080
	Sept. 1, 1950	11.46	11,800	1956	Apr. 16, 1956	6.74	5,780
1951	Dec. 7, 1950	8.29	7,700		1957	Jan. 31, 1957	5.16	4,100
	Mar. 29, 1951	5.32	4,200	Apr. 4, 1957		9.03	8,540
1952	Dec. 4, 1951	6.86	6,020	1958	Nov. 14, 1957	5.63	4,530
	Dec. 21, 1951	6.58	5,660		Nov. 19, 1957	6.57	5,660
	Mar. 11, 1952	16.23	18,400		Dec. 20, 1957	7.08	6,260
	Mar. 23, 1952	8.18	7,580		July 8, 1958	5.11	4,000
1953	Feb. 21, 1953	10.03	9,840	1959	Jan. 21, 1959	5.34	4,200
	Mar. 23, 1953	6.20	5,190		Apr. 12, 1959	6.85	5,900
1954	Jan. 16, 1954	5.14	4,100		May 21, 1959	6.02	4,970
	Jan. 22, 1954	9.49	9,190		May 31, 1959	5.38	4,310

a No record Oct. 1 to Dec. 13.

1855. Keowee River near Newry, S.C.

Location.--Lat 34°44'09", long 82°52'19", on left bank 800 ft downstream from Lawrence Bridge, 0.7 mile upstream from Sixmile Creek, and $2\frac{1}{4}$ miles east of Newry, Oconee County.

Drainage area.--455 sq mi.

Gage.--Recording. Datum of gage is 625.00 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs and extended by logarithmic plotting.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 13, 1940	a24.60	25,200	1946	Dec. 25, 1945	a13.80	11,000
	Aug. 30, 1940	a23.68	24,100		Jan. 7, 1946	a21.32	20,300
1941	July 7, 1941	a13.27	10,400		Jan. 9, 1946	a13.20	10,400
					Feb. 10, 1946	a19.35	17,800
1942	Feb. 17, 1942	a20.28	18,900	1947	Jan. 20, 1947	a16.26	13,900
1943	Dec. 29, 1942	b18.87	17,100	1948	Mar. 7, 1948	a12.96	10,100
	Apr. 19, 1943	a15.66	13,300		Aug. 4, 1948	a19.05	17,500
1944	Mar. 20, 1944	a17.01	14,900	1949	Nov. 3, 1948	a13.81	11,000
	Mar. 29, 1944	a15.33	12,900		Nov. 28, 1948	c20.54	19,000
1945	Feb. 22, 1945	a8.25	5,530		Jan. 6, 1949	a18.16	15,300
					Apr. 30, 1949	a17.86	15,200

a Occurred at different time than peak discharge.

b Occurred on Dec. 30, 1942.

c Occurred on Nov. 29, 1948.

Peak stages and discharges of Keowee River near Newry, S.C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 16, 1949	d14.93	11,700	1953	Feb. 21, 1953	a18.89	16,300
	July 12, 1949	d17.77	15,000				
	July 18, 1949	a13.90	10,400	1954	Jan. 16, 1954	a17.97	16,000
	Aug. 28, 1949	a14.22	10,600		Jan. 22, 1954	f21.19	19,700
	Sept. 6, 1949	e19.17	16,500				
1950	Oct. 7, 1949	a22.69	21,100	1955	Feb. 6, 1955	g19.19	17,500
	June 8, 1950	a14.58	11,600	1956	Apr. 16, 1956	a17.32	14,900
	July 15, 1950	a14.33	11,200				
	Sept. 1, 1950	a16.45	13,900	1957	Feb. 1, 1957	a13.33	10,200
1951	Dec. 7, 1950	a15.97	13,000		Apr. 5, 1957	a20.32	18,300
1952	Dec. 4, 1951	a14.40	11,600	1958	Nov. 19, 1957	a13.72	10,800
	Dec. 21, 1951	a19.23	17,100	1959	Apr. 12, 1959	a17.01	14,400
	Mar. 4, 1952	a18.45	16,200		May 31, 1959	a16.37	13,000
	Mar. 11, 1952	a23.16	22,000				
	Mar. 23, 1952	a20.68	18,700				

a Occurred at different time than peak discharge. d Occurred on July 13, 1949.
 e Occurred on Sept. 7, 1949. f Occurred on Jan. 23, 1954. g Occurred on
 Feb. 7, 1955.

1860. Twelvemile Creek near Liberty, S.C.

Location--Lat 34°48'05", long 82°44'55", on left bank 40 ft downstream from State Highway bridge, 0.8 mile downstream from Rices Creek and 3.4 miles west of Liberty, Pickens County.

Drainage area--106 sq mi.

Gage--Recording. Datum of gage is 822.185 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation--Defined by current-meter measurements below 2,200 cfs and extended by logarithmic plotting.

Remarks--Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 7, 1955	9.60	2,880	1957	Feb. 1, 1957	7.66	1,920
	May 22, 1955	8.92	2,490		Apr. 5, 1957	9.80	2,930
1956	Feb. 6, 1956	7.73	1,880	1958	July 9, 1958	6.56	1,380
	Feb. 20, 1956	6.79	1,460				
	Mar. 16, 1956	7.22	1,640	1959	Apr. 13, 1959	9.18	2,660
	Apr. 16, 1956	9.37	2,760		June 1, 1959	9.30	2,710

1870. Seneca River near Anderson, S. C.

Location--Lat 34°29'10", long 82°49'45", on right bank 0.25 mile downstream from bridge on State Highway 80, 1.9 miles downstream from Deep Creek, 4.2 miles upstream from confluence with Tugaloo River, and 10 miles west of Anderson, Anderson County.

Drainage area--1,026 sq mi.

Gage--Nonrecording prior to Jan. 24, 1929; recording thereafter. Altitude of gage is 520 ft (from Corps of Engineers profile).

Stage-discharge relation--Defined by current-meter measurements below 18,000 cfs and extended by logarithmic plotting.

Remarks--Peaks are from graphs based on gage readings prior to Jan. 24, 1929. Gage heights prior to October 1931 furnished by Corps of Engineers. Base for partial-duration series, 13,000 cfs. Only annual peaks are shown prior to 1932.

Peak stages and discharges of Seneca River near Anderson, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Aug. 17, 18, 1928	25.75	81,100	1943	Jan. 28, 1943	10.36	14,200
1929	Mar. 5, 1929	14.72	25,900		Apr. 20, 1943	10.54	14,400
1930	Oct. 2, 1929	13.90	23,100	1944	Mar. 20, 1944	13.05	22,600
1931	Nov. 17, 1930	8.20	7,800		Mar. 30, 1944	12.22	19,800
1932	Dec. 5, 1931	10.94	14,100	1945	Mar. 27, 1945	8.30	8,850
	Dec. 15, 1931	12.14	17,500	1946	Jan. 7, 1946	17.26	40,600
	Jan. 7, 1932	11.59	16,100		Feb. 11, 1946	12.94	22,200
	Mar. 23, 1932	11.79	16,600	1947	Jan. 21, 1947	11.76	18,400
1933	Oct. 18, 1932	17.73	37,600	1948	July 16, 1948	10.66	15,000
	Nov. 1, 1932	13.50	21,700		Aug. 5, 1948	10.84	15,300
	Dec. 12, 1932	10.68	13,600	1949	Nov. 29, 1948	15.11	30,700
	Dec. 26, 1932	11.57	16,100		Jan. 6, 1949	11.93	18,700
	Dec. 29, 1932	11.68	16,300		May 1, 1949	11.58	17,700
1934	Mar. 5, 1934	12.16	19,800		July 13, 1949	11.08	16,200
1935	Jan. 10, 1935	12.24	19,800		July 19, 1949	10.34	13,900
1936	Nov. 14, 1935	12.81	21,800		Sept. 7, 1949	11.76	18,400
	Jan. 3, 1936	15.83	33,800	1950	Oct. 8, 1949	13.51	24,300
	Jan. 7, 1936	11.83	18,400	1951	Oct. 21, 1950	10.31	13,900
	Jan. 20, 1936	12.65	21,200	1952	Dec. 22, 1951	13.90	25,900
	Feb. 5, 1936	13.37	24,000		Mar. 5, 1952	13.29	23,600
	Apr. 3, 1936	11.85	18,400		Mar. 12, 1952	15.37	32,000
	Apr. 7, 1936	19.04	49,200		Mar. 24, 1952	15.20	31,100
1937	Oct. 1, 1936	20.07	55,200	1953	Feb. 22, 1953	13.21	23,200
	Oct. 10, 1936	13.59	24,700	1954	Jan. 17, 1954	12.53	20,800
	Jan. 1, 1937	11.79	18,400		Jan. 23, 1954	13.26	23,600
	Jan. 3, 1937	14.69	29,100	1955	Feb. 7, 1955	11.74	18,400
	Jan. 20, 1937	10.73	15,000	1956	Mar. 16, 1956	9.98	13,000
1938	Oct. 20, 1937	14.42	27,900		Apr. 17, 1956	11.69	18,000
1939	Feb. 4, 1939	10.58	14,700	1957	Apr. 6, 1957	12.89	22,200
	Aug. 19, 1939	15.68	33,300	1958	Nov. 20, 1957	9.88	12,800
1940	Aug. 14, 1940	18.30	45,600	1959	Apr. 13, 1959	11.00	15,300
	Aug. 31, 1940	14.81	29,500		June 2, 1959	10.72	14,200
1941	July 7, 1941	10.13	13,300				
1942	Feb. 17, 1942	15.25	31,100				
1943	Dec. 30, 1942	12.54	20,600				
	Jan. 19, 1943	10.42	14,200				

1875. Savannah River near Iva, S. C.

Location.--Lat 34°15', long 82°45', on left bank at downstream side of bridge on State Highway 184, half a mile upstream from Little Generostee Creek, 5.8 miles southwest of Iva, Anderson County, and at mile 281.5 upstream from Savannah, Ga.

Drainage area.--2,231 sq mi.

Gage.--Recording. Datum of gage is 432.255 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by storage in Hartwell Reservoir subsequent to 1959. Base for partial-duration series, 22,000 cfs. Only annual peaks are shown subsequent to 1959.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 8, 1949	-	27,500	1952	Mar. 4, 1952	11.50	44,900
	Sept. 9, 1950	8.70	25,200		Mar. 12, 1952	12.74	54,400
1951	Oct. 21, 1950	8.98	27,200		Mar. 24, 1952	12.52	52,800
	Dec. 8, 1950	8.34	22,600	1953	Feb. 22, 1953	10.44	36,800
1952	Dec. 21, 1951	11.92	48,000	1954	Jan. 16, 1954	11.28	44,200

Peak stages and discharges of Savannah River near Iva, S.C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 23, 1954	10.36	36,800	1958	Nov. 19, 1957	9.67	32,000
1955	Feb. 7, 1955	10.04	34,000		July 9, 1958	8.62	25,200
1956	Feb. 7, 1956	8.42	23,200	1959	Apr. 13, 1959	8.22	22,000
	Mar. 16, 1956	9.64	31,200		June 1, 1959	7.98	22,000
	Apr. 16, 1956	9.65	31,200	1960	Apr. 6, 1960	6.16	12,300
	Sept. 26, 1956	8.98	27,600				
1957	Apr. 6, 1957	10.08	34,800	1961	Mar. 7, 1961	5.79	10,400
					July 18, 1961	5.79	10,400

1880. Rocky River near Calhoun Falls, S.C.

Location.--Lat 34°08', long 82°38', on right bank 2,000 ft upstream from Swanigan Mill bridge on county road, 3 $\frac{1}{4}$ miles northwest of Calhoun Falls, Abbeville County, and 3 $\frac{3}{4}$ miles upstream from mouth.

Drainage area.--267 sq mi.

Gage.--Recording. Datum of gage is 403.04 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 3,300 cfs prior to 1958 and below 5,000 cfs subsequently. Extended by velocity-area studies and logarithmic plotting.

Remarks.--Peak discharges affected by storage in Lake Secession. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 7, 1950	3.44	1,240	1956	Sept. 27, 1956	6.22	4,110
1952	Mar. 25, 1952	9.44	9,450	1957	Apr. 5, 1957	3.60	1,260
1953	Mar. 23, 1953	4.54	2,240	1958	Nov. 20, 1957	7.45	5,000
1954	Jan. 23, 1954	5.09	2,880	1959	Sept. 7, 1959	6.23	3,860
1955	Feb. 6, 1955	4.92	2,700				

1885. South Beaverdam Creek at Dewy Rose, Ga.

Location.--Lat 34°11', long 82°57', on left bank 50 ft upstream from highway bridge, 1 mile northeast of Dewy Rose, Elbert County, and 3 miles upstream from confluence with North Beaverdam Creek.

Drainage area.--35.8 sq mi.

Gage.--Nonrecording prior to Nov. 20, 1952; recording thereafter. Datum of gage is 581.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Remarks.--Base for partial-duration series, 700 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1852	Aug. 25, 1852	a23.6	-	1949	Nov. 29, 1948	11.1	1,910
1908	Aug. 25, 1908	a23.6	-	1950	Sept. 9, 1950	3.35	189
1928	Aug. 15, 1928	b17.8	4,300	1951	Oct. 20, 1950	11.0	1,880
1943	Jan. 18, 1943	13.4	2,600	1952	Dec. 21, 1951	8.6	1,220
1944	Mar. 20, 1944	6.9	891		Mar. 4, 1952	9.8	1,520
1945	Apr. 25, 1945	8.0	1,110		Mar. 11, 1952	7.1	880
					Mar. 24, 1952	6.6	780
1946	Jan. 7, 1946	9.6	1,450				
1947	Jan. 20, 1947	8.6	1,240	1953	Feb. 21, 1953	6.5	760
1948	Nov. 12, 1947	7.4	990	1954	Jan. 17, 1954	7.2	900
	Mar. 7, 1948	6.7	853				

a From information furnished by local residents.

b From floodmark.

Peak stages and discharges of South Beaverdam Creek at Dewy Rose, Ga.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 7, 1955	6.9	840	1959	June 1, 1959	5.80	438
1956	Mar. 17, 1956	8.1	1,100	1960	Jan. 31, 1960	8.34	978
	Sept. 26, 1956	6.4	740		Feb. 6, 1960	7.55	737
1957	Apr. 6, 1957	8.97	948		July 29, 1960	8.45	1,010
		10.84	1,540	1961	Feb. 21, 1961	12.2	2,060
Nov. 19, 1957	8.00	810	Feb. 25, 1961		7.9	866	
Nov. 26, 1957	8.15	893					

1890. Savannah River near Calhoun Falls, S. C.

Location.--Lat 34°04', long 82°38', on left bank 150 ft upstream from bridge on State Highway 72, 1 mile downstream from Seaboard Air Line Railroad bridge, 1½ miles downstream from Rocky River, 3 miles southwest of Calhoun Falls, Abbeville County, and at mile 264.7 upstream from Savannah, Ga.

Drainage area.--2,876 sq mi. At site used prior to Mar. 13, 1930, 2,712 sq mi.

Gage.--Nonrecording prior to Mar. 13, 1930; recording Mar. 13, 1930, to July 30, 1932; nonrecording July 31, 1932, to Mar. 31, 1938; recording thereafter. At site 1 mile upstream at datum 5.5 ft higher prior to July 1, 1928. At or near present site at datum 2 ft higher from July 1, 1928, to Mar. 12, 1930. Datum of gage is 363.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs at former site. Peak discharges for 1904-27 are from rating table based on discharge measurements made 1896-1903. Defined by current-meter measurements below 50,000 cfs and extended above on basis of velocity-area studies and logarithmic plotting at present site.

Bankfull stage.--8 ft; 6 ft at former site.

Historical data.--Maximum stage known is that of Aug. 25, 1908 (from records of U.S. Weather Bureau).

Remarks.--Flow regulated by storage in Hartwell Reservoir subsequent to 1959. Gage heights for Jan. 1, 1904, to Mar. 12, 1930, and from July 31, 1932, to Mar. 31, 1938, are from graphs based on gage readings by the U.S. Weather Bureau. Records for Mar. 13, 1930, to July 30, 1932, furnished by Commonwealth and Southern Corp. in connection with a Federal Power Commission license. Base for partial-duration series, 25,000 cfs. Supplemental peaks are shown for period 1939-59 only.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Apr. 5, 1897	15.3	57,400	1917	Mar. 25, 1917	11.3	40,000
1900	Feb. 14, 1900	19.7	76,500	1918	Aug. 3, 1918	8.1	26,100
				1919	Dec. 23, 1918	15.7	59,100
				1920	Dec. 10, 1919	16.6	63,100
				1921	Feb. 9, 1921	14.0	51,800
1901	Sept. 18, 1901	17.4	66,500	1922	Mar. 11, 1922	10.1	34,800
1902	Feb. 28, 1902	19.6	76,100	1923	Dec. 19, 1922	10.3	35,700
1903	June 7, 1903	15.4	57,800	1924	Sept. 21, 1924	11.3	40,000
1904	Aug. 9, 1904	9.9	33,900	1925	Jan. 19, 1925	9.4	31,700
1905	July 2, 1905	13.0	47,400	1926	Jan. 19, 1926	8.6	28,300
1906	Mar. 20, 1906	11.8	42,200	1927	Dec. 29, 1926	8.5	27,800
1907	Oct. 4, 1906	9.9	33,900	1928	Aug. 17, 1928	11.9	130,000
1908	Aug. 25, 1908	28.2	114,000		Sept. 27, 1929	8.7	85,400
1909	June 4, 1909	12.2	43,900		Oct. 2, 1929	10.1	105,000
1910	Mar. 1, 1910	12.5	45,200	1931	Apr. 23, 1931	4.22	15,800
1911	Jan. 4, 1911	7.5	23,500	1932	Dec. 4, 1931	7.1	41,400
1912	Mar. 16, 1912	19.5	75,700	1933	Oct. 17, 1932	11.6	97,600
1913	Mar. 15, 1913	13.2	48,300	1934	June 5, 1934	7.0	39,400
1914	Dec. 30, 1913	7.2	22,200	1935	Jan. 10, 1935	6.0	29,400
1915	July 1, 1915	10.9	38,300				
1916	Dec. 30, 1915	12.4	44,800				

Peak stages and discharges of Savannah River near Calhoun Falls, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Apr. 7, 1936	11.5	96,200	1949	Nov. 29, 1948	8.94	61,800
1937	Oct. 1, 1936	9.0	63,000		Jan. 6, 1949	7.10	40,500
1938	Oct. 20, 1937	8.2	53,100		Feb. 20, 1949	5.58	25,800
					May 1, 1949	6.59	35,300
1939	Feb. 4, 1939	5.87	27,200		June 18, 1949	6.60	35,300
	Mar. 1, 1939	5.67	25,400		July 13, 1949	5.80	27,600
	Aug. 19, 1939	7.88	49,600		Aug. 17, 1949	5.74	26,700
					Sept. 7, 1949	6.73	36,300
1940	Feb. 19, 1940	5.67	26,000				
	Aug. 13, 1940	11.52	96,500	1950	Oct. 8, 1949	5.98	29,400
	Aug. 31, 1940	8.09	51,900		Sept. 9, 1950	5.79	26,800
1941	July 7, 1941	6.70	36,300	1951	Oct. 21, 1950	5.98	28,800
	July 16, 1941	6.19	31,400				
1942	Feb. 18, 1942	7.73	47,200	1952	Dec. 22, 1951	7.70	47,200
	Mar. 22, 1942	7.14	40,100		Mar. 4, 1952	7.80	48,400
					Mar. 12, 1952	8.12	51,900
1943	Dec. 30, 1942	6.98	39,400		Mar. 24, 1952	8.65	58,000
	Jan. 18, 1943	8.21	53,100	1953	Feb. 22, 1953	6.94	38,400
	Jan. 28, 1943	7.18	41,600				
	Mar. 21, 1943	5.57	25,800	1954	Jan. 17, 1954	7.44	44,600
	Apr. 20, 1943	6.16	31,400		Jan. 23, 1954	6.72	38,100
1944	Mar. 20, 1944	7.91	49,500	1955	Feb. 7, 1955	6.89	40,200
	Mar. 30, 1944	7.42	43,800				
1945	Apr. 25, 1945	6.40	33,300	1956	Feb. 7, 1956	5.64	26,000
					Mar. 17, 1956	6.83	38,100
1946	Dec. 26, 1945	5.69	26,000		Apr. 16, 1956	6.45	33,900
	Jan. 8, 1946	9.41	68,400		Sept. 26, 1956	7.02	40,200
	Feb. 11, 1946	6.73	35,800	1957	Apr. 6, 1957	6.79	38,100
1947	Jan. 20, 1947	7.47	44,800	1958	Nov. 19, 1957	6.76	38,100
					Apr. 16, 1958	5.71	25,800
1948	Feb. 13, 1948	5.77	26,800	1959	June 2, 1959	6.41	32,800
	Mar. 7, 1948	6.11	29,800				
	July 13, 1948	5.78	26,800	1960	Feb. 13, 1960	5.03	19,600
	July 17, 1948	5.68	25,800		Mar. 8, 1961	4.79	17,400
	Aug. 5, 1948	5.62	25,800	1961			
1949	Nov. 4, 1948	5.60	25,800				

1910. North Fork Broad River near Carnesville, Ga.

Location.--Lat 34°19', long 83°11', at bridge on State Highway 51, 1 mile downstream from Unawattli Creek, 3 miles upstream from confluence with Middle Fork Broad River, and 4½ miles southeast of Carnesville, Franklin County.

Drainage area.--119 sq mi.

Gage.--Nonrecording prior to Apr. 29, 1954; recording thereafter. Datum of gage is 600.33 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of slope-area measurement at 11,400 cfs.

Remarks.--Storm runoff affected for short periods since 1955 by small flood-detention reservoirs above gage. The present combined capacity of these reservoirs is 5,550 acre-ft. Base for partial-duration series, 1,500 cfs. Only annual peaks are shown prior to 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Jan. 18, 1943	7.60	3,400	1959	June 1, 1959	5.20	1,330
1944	Mar. 29, 1944	6.80	2,670				
1955	Feb. 7, 1955	5.7	1,800	1960	Jan. 3, 1960	5.48	1,600
					Jan. 31, 1960	6.40	2,320
1956	Mar. 16, 1956	6.90	2,760		Feb. 5, 1960	6.81	2,670
	Apr. 16, 1956	5.75	1,850		July 28, 1960	5.48	1,600
1957	Apr. 5, 1957	5.95	2,060	1961	Feb. 21, 1961	14.6	11,400
					Feb. 25, 1961	7.3	3,120
1958	Nov. 19, 1957	5.85	1,950		Mar. 31, 1961	5.73	1,800
	Apr. 15, 1958	5.50	1,600		Apr. 12, 1961	6.0	2,000
					Aug. 25, 1961	5.93	1,960

1912. Hudson River at Homer, Ga.

Location.--Lat 34°20'30", long 83°29'10", on downstream side of center pier of bridge on State Highway 15 at Homer, Banks County, 3.6 miles upstream from Webb Creek, and 10.8 miles upstream from Grove Creek.

Drainage area.--46 sq mi, approximately.

Gage.--Crest-stage gage prior to June 19, 1959; recording thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Oct. 20, 1950	10.41	2,270	1957	Apr. 5, 1957	8.60	1,290
1952	Mar. 4, 1952	13.76	-	1958	Apr. 15, 1958	6.87	792
1953	Feb. 21, 1953	-	al,250	1959	May 31, 1959	8.06	1,120
1954	Jan. 16, 1954	11.04	3,170	1960	July 28, 1960	8.12	1,140
1955	Feb. 7, 1955	9.89	1,840	1961	Feb. 21, 1961	12.25	-
1956	Mar. 16, 1956	8.93	1,420				

a Estimated.

1913. Broad River above Carlton, Ga.

(Prior to Jan. 1, 1918, published as "near Carlton")

Location.--Lat 34°04', long 83°01', at bridge on State Highway 72, 2 $\frac{3}{4}$ miles upstream from South Fork Broad River and 2 $\frac{3}{4}$ miles northeast of Carlton, Madison County.

Drainage area.--760 sq mi. At former site, 762 sq mi.

Gage.--Nonrecording. Prior to Jan. 1, 1918, at Seaboard Air Line Railway bridge about three-quarters of a mile downstream at datum 5.8 ft lower. Datum of gage is 404.6 ft (unadjusted) above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 8,300 cfs and extended above by logarithmic plotting at former site. Peak discharges 1913-17 are from rating table based on discharge measurements made 1898-1912. Defined by current-meter measurements below 15,000 cfs and extended above by logarithmic plotting at present site. Peaks 1918-49 are from rating table based on discharge measurements made after 1950.

Bankfull stage.--15 ft.

Remarks.--Stage record since Jan. 1, 1913, furnished by U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1898	Sept. 2, 1898	20.0	26,600	1918	Aug. 3, 1918	12.0	5,400
1899	Feb. 27, 1899	15.8	19,500	1920	Dec. 10, 1919	28.2	29,500
1900	Feb. 13, 1900	22.7	31,600	1921	Feb. 10, 1921	23.7	20,100
1901	Sept. 18, 1901	14.8	17,800	1922	Feb. 15, 1922	17.8	11,000
1902	Feb. 28, 1902	28.2	43,200	1923	May 30, 1923	19.1	12,500
1903	Mar. 24, 1903	21.7	29,700	1924	Dec. 5, 1923	12.1	5,480
1904	Aug. 9, 1904	10.4	10,400	1925	Jan. 18, 1925	17.1	10,100
1905	Feb. 21, 1905	9.0	8,220	1926	Jan. 18, 1926	14.2	7,160
1906	Jan. 23, 1906	19.0	24,900	1927	Mar. 9, 1927	8.6	2,680
1907	Apr. 24, 1907	7.6	6,200	1928	Aug. 16, 1928	26.0	24,500
1908	Aug. 25, 1908	39.0	70,000	1929	Mar. 5, 1929	25.2	22,900
1909	June 4, 1909	12.7	14,100	1930	Oct. 2, 1929	27.9	28,800
1910	Aug. 31, 1910	16.4	20,500	1931	Nov. 17, 1930	10.0	3,800
1911	Apr. 8, 1911	8.5	5,640	1932	Dec. 4, 1931	18.2	11,400
1912	Mar. 15, 1912	28.0	42,800	1933	Dec. 13, 1932	16.0	8,800
1913	Mar. 15, 1913	22.0	30,300	1934	June 3, 1934	15.5	8,300
1914	Dec. 29, 1913	10.8	11,000	1935	Oct. 11, 1934	16.0	8,800
1915	Oct. 15, 1914	16.1	20,000	1936	Apr. 7, 1936	28.0	29,000
1916	Dec. 18, 1915	18.4	23,900	1937	Jan. 3, 1937	21.4	16,000
1917	Mar. 27, 1917	13.3	15,200				

Peak stages and discharges of Broad River above Carlton, Ga.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 19, 1937	25.0	22,500	1951	Oct. 20, 1950	22.0	17,000
1939	Aug. 18, 1939	24.2	21,000	1952	Mar. 12, 1952	21.0	15,300
1940	Aug. 13, 1940	22.0	17,000	1953	Feb. 22, 1953	16.0	8,800
				1954	Jan. 17, 1954	a16.3	9,160
1941	July 7, 1941	17.0	10,000	1955	Feb. 7, 1955	16.9	9,880
1942	Mar. 21, 1942	19.7	13,400				
1943	Jan. 18, 1943	23.1	19,000	1956	Mar. 17, 1956	16.0	8,800
1944	Mar. 20, 1944	17.0	10,000	1957	Apr. 6, 1957	15.5	8,300
1945	Mar. 25, 1945	17.9	11,100	1958	Nov. 19, 1957	15.3	8,100
				1959	May 27, 1959	a14.5	7,400
1946	Jan. 7, 1946	21.5	16,200	1960	Jan. 31, 1960	15.6	8,400
1947	Jan. 20, 1947	19.0	12,400				
1948	Mar. 7, 1948	15.0	7,800	1961	Feb. 22, 1961	26.0	24,500
1949	Nov. 29, 1948	24.5	21,600				
1950	Sept. 9, 1950	9.5	3,400				

a Maximum observed.

1920. Broad River near Bell, Ga.

Location--Lat 33°58', long 82°46', at bridge on State Highway 17, half a mile downstream from Long Creek, 1 mile south of Bell's Crossroads, and 12 miles southeast of Elberton, Elbert County.

Drainage area--1,430 sq mi, approximately.

Gage--Nonrecording prior to January 1939; recording thereafter. Prior to October 1928, at railroad bridge about 1 mile downstream at datum 1.12 ft lower. Datum of gage is 357.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 27,000 cfs and extended above on basis of slope-conveyance studies.

Bankfull stage--13 ft.

Remarks--Stage records for 1927-28 from Alabama Power Co., for 1929-30 from Allied Engineers Inc., and for 1931-32 from Commonwealth and Southern Corp. Base for partial-duration series, 14,000 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Dec. 29, 1926	13.5	9,830	1948	Mar. 8, 1948	18.2	14,500
1928	Aug. 16, 1928	28.1	44,900				
1929	Mar. 6, 1929	29.5	43,500	1949	Nov. 29, 1948	30.3	47,400
1930	Oct. 2, 1929	34.8	79,400		Jan. 7, 1949	18.1	14,900
					May 2, 1949	20.1	18,100
1931	Nov. 17, 1930	12.0	7,140		Sept. 9, 1949	20.7	19,100
1932	June 16, 1932	18.2	14,800				
1935	July 26, 1935	24.1	25,100	1950	Mar. 14, 1950	9.18	4,420
				1951	Oct. 22, 1950	22.8	22,900
1939	Mar. 1, 1939	18.8	16,000	1952	Dec. 23, 1951	19.7	17,400
	Aug. 19, 1939	21.4	20,300		Mar. 5, 1952	24.3	27,700
1940	Aug. 14, 1940	25.1	28,400		Mar. 13, 1952	20.8	19,400
					Mar. 25, 1952	24.2	27,500
1941	July 17, 1941	17.8	14,600	1953	Feb. 23, 1953	16.5	12,500
1942	Mar. 22, 1942	25.4	29,100	1954	Jan. 18, 1954	18.0	14,700
1943	Dec. 30, 1942	19.1	16,700	1955	Feb. 8, 1955	18.0	14,700
	Jan. 19, 1943	27.2	33,300				
	Jan. 29, 1943	19.8	17,900	1956	Mar. 18, 1956	19.7	17,400
	Mar. 22, 1943	19.5	17,400	1957	Apr. 7, 1957	16.1	11,900
1944	Mar. 21, 1944	21.0	20,000				
	Mar. 30, 1944	20.8	19,600	1958	Apr. 17, 1958	18.3	15,200
1945	Apr. 26, 1945	23.3	24,500	1959	June 2, 1959	19.3	16,800
1946	Dec. 26, 1945	18.8	16,200	1960	Feb. 1, 1960	20.0	17,900
	Jan. 8, 1946	24.8	27,800		Feb. 7, 1960	17.6	14,100
1947	Jan. 21, 1947	24.4	26,900				
1948	Nov. 12, 1947	18.7	15,200	1961	Feb. 23, 1961	23.0	24,300
	Feb. 10, 1948	21.3	19,900		Feb. 26, 1961	21.8	21,500
					Apr. 1, 1961	17.8	14,400

1925. Little River near Mount Carmel, S. C.

Location.--Lat 34°04', long 82°30', on right bank 480 ft downstream from Island Ford Bridge, 2.8 miles upstream from Calhoun Creek, and 4.5 miles north of Mount Carmel, McCormick County.

Drainage area.--217 sq mi.

Gage.--Recording. Datum of gage is 353.97 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended by logarithmic plotting.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 2,500 cfs. Only annual peak shown for 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	29.60	20,800	1949	May 2, 1949	18.05	5,640
1941	July 7, 1941	17.48	5,350	1950	July 25, 1950	8.74	1,780
	July 17, 1941	22.23	9,020		1951	Apr. 2, 1951	7.55
1942	Mar. 22, 1942	19.18	6,400	1952		Mar. 4, 1952	19.47
	July 25, 1942	15.50	4,310		Mar. 25, 1952	17.61	5,400
1943	Dec. 29, 1942	11.41	2,600	1953	May 1, 1953	12.68	2,970
	Jan. 19, 1943	20.37	7,310		1954	Dec. 12, 1953	11.99	2,740
	Jan. 29, 1943	13.57	3,450	Jan. 17, 1954		15.93	3,490
	Mar. 21, 1943	13.01	3,210	1955		Feb. 7, 1955	15.64	4,310
	July 13, 1943	12.87	3,170		Mar. 17, 1956	14.34	3,450
1944	Mar. 20, 1944	20.90	8,020	Apr. 11, 1956	13.68	3,090	
	Mar. 23, 1944	13.18	3,410	Apr. 16, 1956	12.53	2,780	
	Mar. 30, 1944	11.56	2,780	1957	Apr. 5, 1957	9.23	1,900
1945	Apr. 26, 1945	16.88	5,020		1958	Nov. 19, 1957	18.20	5,760
	Sept. 14, 1945	11.97	2,810	Nov. 25, 1957		11.47	2,640
1946	Dec. 25, 1945	13.00	3,210	Jan. 25, 1958		12.65	3,050
	Jan. 7, 1946	12.34	2,930	Apr. 16, 1958		13.36	3,370
	Apr. 17, 1946	11.78	2,780	1959		June 2, 1959	13.35	3,370
May 4, 1946	11.39	2,640	Sept. 7, 1959		17.57	5,400	
1947	Jan. 20, 1947	17.35	5,300	1960	Jan. 31, 1960	15.60	4,300
	Mar. 8, 1947	11.91	2,890		Feb. 14, 1960	13.54	3,200
1948	Nov. 11, 1947	12.81	3,130		July 29, 1960	14.68	3,800
	Feb. 9, 1948	12.53	3,010	1961	Feb. 25, 1961	14.20	3,600
	Mar. 7, 1948	12.42	2,970		Mar. 9, 1961	14.92	3,970
	Apr. 1, 1948	11.18	2,540	Mar. 31, 1961	13.08	3,050	
1949	Nov. 29, 1948	22.55	9,350				
	Dec. 30, 1948	12.25	2,710				
	Jan. 6, 1949	16.50	4,560				
	Feb. 9, 1949	12.58	2,890				

1935. Little River near Washington, Ga.

Location.--Lat 33°36'40", long 82°44'40", near left bank on downstream side of highway bridge pier, 700 ft downstream from Reedy Creek, 4 miles downstream from Georgia Railroad bridge, 6 miles upstream from Williams Creek, and 9 miles south of Washington, Wilkes County.

Drainage area.--291 sq mi.

Gage.--Recording. Altitude of gage is 360 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Little River near Washington, Ga.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 8, 1949	17.6	3,790	1957	Mar. 26, 1957	17.0	3,480
1951	Oct. 22, 1950	13.4	2,160		May 5, 1957	16.9	3,440
1952	Mar. 4, 1952	27.6	13,100	1958	Nov. 26, 1957	16.8	3,390
	Mar. 14, 1952	17.2	3,580		Jan. 25, 1958	17.9	3,960
	Mar. 25, 1952	21.9	7,020		Feb. 7, 1958	20.4	5,760
			Apr. 17, 1958		24.4	9,220	
1953	May 1, 1953	24.8	9,880	1959	June 3, 1959	16.2	3,140
1954	Feb. 21, 1954	10.0	1,300	1960	Oct. 22, 1959	15.9	3,020
1955	Feb. 8, 1955	13.8	2,280		Jan. 8, 1960	17.5	3,740
					Jan. 31, 1960	22.9	7,910
1956	Feb. 7, 1956	17.4	3,680		Feb. 6, 1960	16.9	3,440
	Mar. 17, 1956	16.9	3,440		Feb. 14, 1960	18.3	4,200
	Apr. 12, 1956	20.3	5,680	Mar. 31, 1960	19.5	5,050	
	Apr. 17, 1956	16.1	3,100	1961	Feb. 21, 1961	16.5	3,260
1957	Dec. 25, 1956	16.0	3,060		Feb. 25, 1961	24.1	9,110
					Apr. 1, 1961	23.6	8,600

1940. Little River near Lincolnton, Ga.

Location.--Lat 33°39', long 82°29', on downstream side of Raysville Bridge on State Highway 43, half a mile downstream from Big Creek, $\frac{1}{2}$ miles south of Amity, and 10 miles south of Lincolnton, Lincoln County.

Drainage area.--574 sq mi.

Gage.--Nonrecording. Datum of gage is 271.7 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended above on basis of slope-conveyance study to 54,000 cfs.

Remarks.--This station inundated by Clark Hill Reservoir. Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Sept. 28, 1929	44.3	54,000	1947	Apr. 15, 1947	15.3	6,440
1943	Jan. 19, 1943	20.0	9,580	1948	Nov. 12, 1947	17.7	7,880
	Mar. 6, 1943	12.0	4,800		Dec. 22, 1947	12.0	4,800
	Mar. 22, 1943	19.5	9,180		Jan. 31, 1948	12.2	4,920
1944	Feb. 15, 1944	11.7	4,620		Feb. 10, 1948	20.2	9,750
	Mar. 7, 1944	13.8	5,740		Mar. 7, 1948	16.6	7,170
	Mar. 23, 1944	26.4	16,900	1949	Nov. 29, 1948	23.0	12,400
1945	Apr. 25, 1945	12.4	5,040		Dec. 30, 1948	13.4	5,560
					Feb. 10, 1949	11.6	4,550
1946	Dec. 25, 1945	12.2	4,920	1950	Oct. 8, 1949	19.4	9,100
1947	Jan. 20, 1947	12.9	5,310	1951	Feb. 8, 1951	6.4	2,090
	Mar. 8, 1947	20.4	9,920				

a From information furnished by local residents.

1950. Savannah River near Clarks Hill, S. C.

Location.--Lat 33°38'40", long 82°12'05", on right bank 1.2 miles downstream from Clark Hill Reservoir dam, 2.4 miles southwest of Clarks Hill, McCormick County, 2.5 miles upstream from Kiocke Creek, and at mile 221.1 upstream from Savannah, Ga.

Drainage area.--6,150 sq mi, approximately.

Gage.--Recording. Datum of gage is 182.69 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--17 ft.

Remarks.--Peak discharges regulated by storage in Clark Hill Reservoir since December 1951. Only annual peaks are shown.

Peak stages and discharges of Savannah River near Clarks Hill, S. C.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	29.34	196,000	1947	Jan. 21, 1947	19.99	87,000
1941	July 8, 1941	14.12	54,900	1948	Feb. 10, 1948	16.61	63,600
1942	Mar. 23, 1942	20.77	99,300	1949	Nov. 30, 1948	26.35	154,000
1943	Jan. 20, 1943	22.16	111,000	1950	Oct. 9, 1949	11.61	36,800
1944	Mar. 21, 1944	22.31	111,000	1951	Oct. 22, 1950	14.54	48,700
1945	Apr. 26, 1945	15.72	61,200	1952	Mar. 7, 1952	all.56	35,400
1946	Jan. 8, 1946	22.11	110,000	1953	May 7, 1953	10.52	30,000
				1954	Mar. 30, 1954	10.67	30,000

a occurred on Mar. 25, 1952.

1955. Savannah River at Woodlawn, S. C.

Location.--Lat 33°35'30", long 82°08'05", at Charleston & Western Carolina Railway bridge, at Woodlawn, Edgefield County, 4.2 miles southeast of Meriwether, McCormick County, and 5.7 miles upstream from Stevens Creek.

Drainage area.--6,370 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 165 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs and extended by correlation with peaks at stations near Clarks Hill, S. C., and at Augusta, Ga.

Remarks.--Peaks are from graphs based on gage readings. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Jan. 24, 1906	19.68	96,600	1909	June 5, 1909	17.08	75,300
1907	Oct. 5, 1906	13.56	53,200	1910	Mar. 1, 1910	16.4	70,300
1908	Aug. 26, 1908	37.6	304,000				

1960. Stevens Creek near Modoc, S. C.

Location.--Lat 33°43'45", long 82°10'55", on left bank at bridge on State Highway 23, 1.4 miles east of Modoc, McCormick County, and 3.2 miles downstream from Turkey Creek.

Drainage area.--545 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1931, at site 1,100 ft upstream at different datum; recording thereafter. Datum of gage is 197.34 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by South-eastern Power Administration).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs at former site. Defined by current-meter measurements below 31,000 cfs at present site and extended by logarithmic plotting.

Bankfull stage.--19 ft.

Remarks.--Peaks are from graphs based on gage readings by Corps of Engineers prior to Oct. 1, 1931. Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 1, 1929	52.5	-	1943	Feb. 6, 1943	b18.97	6,250
1931	Apr. 1, 1931	20.66	5,550		Mar. 7, 1943	b22.12	8,890
					Mar. 22, 1943	25.70	12,200
1940a/	Feb. 18, 1940	19.90	6,990		Apr. 20, 1943	19.57	6,680
	Aug. 14, 1940	b41.08	35,100		July 10, 1943	b19.45	6,630
					July 14, 1943	b19.30	6,640
1941	June 25, 1941	b18.43	6,000	1944	Feb. 15, 1944	b21.39	8,280
					Feb. 18, 1944	b21.34	8,200
1942	Dec. 24, 1941	b19.12	6,360		Mar. 7, 1944	22.35	9,070
	Feb. 17, 1942	20.29	7,260		Mar. 21, 1944	b35.88	26,200
	Mar. 3, 1942	22.81	9,430		Mar. 23, 1944	b28.65	15,600
	Mar. 9, 1942	22.56	9,250		Apr. 27, 1944	b20.35	7,420
	Mar. 22, 1942	b29.64	16,800				
	Mar. 28, 1942	b19.18	6,670	1945	Apr. 25, 1945	b20.10	7,220
1943	Jan. 19, 1943	b30.90	18,700	1946	Dec. 26, 1945	25.27	11,800

a No record Oct. 1 to Feb. 14.

b Occurred at different time than peak discharge.

Peak stages and discharges of Stevens Creek near Modoc, S. C.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Feb. 10, 1946	b20.41	7,480	1955	Feb. 7, 1955 Apr. 15, 1955	21.57 24.75	8,370 11,300
1947	Oct. 9, 1946 Jan. 20, 1947 Mar. 8, 1947	b20.30 b21.75 b24.41	7,400 8,620 11,000	1956	Mar. 20, 1956 Apr. 12, 1956	b20.92 b22.74	7,860 9,430
1948	Nov. 12, 1947 Dec. 22, 1947 Jan. 31, 1948 Feb. 10, 1948 Feb. 13, 1948 Mar. 7, 1948 Mar. 17, 1948 Apr. 1, 1948	b21.49 b19.61 b21.19 27.36 b19.84 26.28 20.53 b20.78	8,360 6,750 8,110 14,200 7,080 13,000 7,690 7,940	1957	Mar. 25, 1957 May 5, 1957 May 12, 1957	b20.05 b20.32 b19.45	7,080 7,350 6,630
1949	Nov. 29, 1948 Dec. 30, 1948 Feb. 9, 1949 Feb. 20, 1949 Apr. 30, 1949	b30.27 20.88 b22.28 b20.59 21.71	17,700 7,780 9,070 7,600 8,460	1958	Nov. 25, 1957 Jan. 25, 1958 Feb. 7, 1958 Apr. 16, 1958	b21.64 b20.32 b24.23 b28.87	8,450 9,520 11,000 15,900
1950	Mar. 7, 1950	14.50	4,060	1959	Feb. 5, 1959 Mar. 6, 1959	20.06 b20.60	7,100 7,600
1951	Apr. 3, 1951	19.66	6,760	1960	Oct. 1, 1959 Oct. 22, 1959 Jan. 7, 1960 Jan. 31, 1960 Feb. 11, 1960 Feb. 14, 1960 Mar. 31, 1960 Apr. 5, 1960	b23.00 b19.46 b26.23 b26.27 b24.19 b27.80 b26.89 b21.90	9,710 6,580 12,800 16,100 10,800 14,600 13,500 8,710
1952	Mar. 5, 1952 Mar. 11, 1952 Mar. 25, 1952	30.59 b20.51 b22.89	18,200 7,510 9,620	1961	Feb. 23, 1961 Feb. 25, 1961 Mar. 7, 1961 Apr. 1, 1961 Apr. 13, 1961 Apr. 16, 1961	b19.40 31.26 21.36 b29.53 b23.72 b20.73	6,590 19,000 8,200 16,800 10,300 7,680
1953	Feb. 15, 1953 May 7, 1953	b21.51 b19.21	8,360 6,550				
1954	Jan. 16, 1954	b14.47	4,110				

b Occurred at different time than peak discharge.

1970. Savannah River at Augusta, Ga.

Location--Lat 33°22'25", long 81°56'35", at New Savannah Bluff lock and dam, 0.2 mile upstream from Butler Creek, 12 miles downstream from Augusta, Richmond County, and at mile 188.2 upstream from Savannah.

Drainage area--7,508 sq mi, including that of Butler Creek; 7,240 sq mi at former site.

Gage--Nonrecording Sept. 3, 1875, to June 10, 1927; recording June 11, 1927, to Oct. 15, 1930; nonrecording Oct. 16, 1930, to Sept. 30, 1932; recording thereafter. Prior to Oct. 1, 1938, at Fifth Street Bridge in Augusta at datum 5.48 ft higher; from Oct. 1, 1938, to Nov. 10, 1948, at site 0.2 mile downstream at present datum. Datum of gage is 96.58 ft (revised) above mean sea level, datum of 1929, supplementary adjustment of 1936 (Corps of Engineers bench mark).

Stage-discharge relation--Defined for period prior to levee construction (completed in 1914) by current-meter measurements below 127,000 cfs and by conveyance-slope study at 360,000 cfs. Defined for subsequent period by current-meter measurements below 300,000 cfs and by computations of flow over Stevens Creek Dam to 350,000 cfs.

Bankfull stage--21 ft; 32 ft prior to Oct. 1, 1938.

Historical data--The maximum flood known is that of 1796 (at site and datum of Fifth Street gage).

Remarks--Peaks for periods of nonrecording gage are from graph* based on gage readings by the U.S. Weather Bureau and the city of Augusta. Gage heights for June 11, 1927, to July 31, 1932, furnished by Savannah River Electric Co. Subsequent to Sept. 30, 1938, gage heights collected in cooperation with Corps of Engineers. Peak discharges since December 1951 affected by storage in Clark Hill Reservoir. Base for partial-duration series, 50,000 cfs. Supplemental peaks are shown for period 1944-51 only.

Peak stages and discharges of Savannah River at Augusta, Ga.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1796	-	40	360,000	1924	Sept. 22, 1924	28.0	59,700
1840	May 28, 1840	37.8	270,000	1925	Jan. 20, 1925	36.5	150,000
1852	Aug. 29, 1952	37.4	250,000	1926	Jan. 20, 1926	27.3	55,300
1865	Jan. 11, 1865	36.9	240,000	1927	Dec. 30, 1926	24.0	39,000
1876	Dec. 30, 1875	28.6	86,400	1928	Aug. 17, 1928	40.4	226,000
1877	Apr. 14, 1877	31.4	119,000	1929	Sept. 27, 1929	46.3	343,000
1878	Nov. 23, 1877	23.5	51,500	1930	Oct. 2, 1929	45.1	350,000
1879	Aug. 3, 1879	22.0	44,000	1931	Nov. 17, 1930	19.9	26,100
1880	Dec. 16, 1879	30.1	102,000	1932	Jan. 9, 1932	30.4	93,800
1881	Mar. 18, 1881	32.2	130,000	1933	Oct. 18, 1932	30.3	92,600
1882	Sept. 12, 1882	29.3	93,300	1934	Mar. 5, 1934	28.5	73,200
1883	Jan. 22, 1883	30.8	111,000	1935	Mar. 14, 1935	27.4	63,700
1884	Apr. 16, 1884	28.0	81,000	1936	Apr. 8, 1936	41.2	258,000
1885	Jan. 26, 1885	27.5	77,000	1937	Jan. 4, 1937	30.1	91,400
1886	May 21, 1886	32.5	135,000	1938	Oct. 21, 1937	30.1	91,400
1887	July 31, 1887	34.5	173,000	1939	Mar. 2, 1939	24.10	90,900
1888	Sept. 11, 1888	38.7	303,000	1940	Aug. 15, 1940	29.40	239,000
1889	Feb. 19, 1889	33.3	149,000	1941	July 8, 1941	22.89	53,300
1890	Feb. 27, 1890	22.9	48,500	1942	Mar. 23, 1942	24.56	105,000
1891	Mar. 10, 1891	35.5	197,000	1943	Jan. 20, 1943	25.10	117,000
1892	Jan. 20, 1892	32.8	140,000	1944	Mar. 22, 1944	25.53	128,000
1893	Feb. 14, 1893	25.0	60,000	1944	Mar. 31, 1944	23.46	72,000
1894	Aug. 7, 1894	24.0	54,000	1945	Apr. 27, 1945	23.16	64,000
1895	Jan. 11, 1895	30.4	106,000	1946	Dec. 27, 1945	23.17	64,000
1896	July 10, 1896	30.5	107,000	1946	Jan. 9, 1946	24.43	97,200
1897	Apr. 6, 1897	29.3	93,300	1946	Feb. 12, 1946	22.55	51,700
1898	Sept. 2, 1898	31.3	117,000	1947	Jan. 22, 1947	23.97	86,000
1899	Feb. 8, 1899	31.0	113,000	1947	Mar. 9, 1947	22.95	59,300
1900	Feb. 15, 1900	32.7	138,000	1948	Nov. 13, 1947	23.07	61,600
1901	Apr. 4, 1901	31.8	124,000	1948	Feb. 10, 1948	23.90	83,200
1902	Mar. 1, 1902	34.6	175,000	1948	Mar. 8, 1948	23.44	69,200
1903	Feb. 9, 1903	33.2	147,000	1948	Apr. 2, 1948	22.92	57,100
1904	Aug. 10, 1904	25.5	63,000	1949	Nov. 30, 1948	26.61	154,000
1905	Feb. 14, 1905	25.8	64,800	1949	Jan. 8, 1949	23.45	66,300
1906	Jan. 5, 1906	29.6	96,600	1949	Feb. 11, 1949	22.87	55,100
1907	Oct. 5, 1906	23.6	52,000	1949	May 3, 1949	23.61	71,500
1908	Aug. 27, 1908	38.8	307,000	1950	Oct. 9, 1949	20.10	32,500
1909	June 5, 1909	28.7	87,300	1951	Oct. 22, 1950	22.32	46,300
1910	Mar. 2, 1910	26.4	69,800	1952	Mar. 6, 1952	21.53	39,300
1911	Apr. 14, 1911	19.1	32,800	1953	May 8, 1953	20.80	35,200
1912	Mar. 17, 1912	36.8	234,000	1954	Mar. 30, 1954	17.39	25,500
1913	Mar. 16, 1913	35.1	156,000	1955	Apr. 15, 1955	16.77	23,900
1914	Dec. 31, 1913	24.3	48,000	1956	Apr. 12, 1956	14.70	18,600
1915	Jan. 20, 1915	28.2	61,000	1957	May 7, 1957	14.08	18,000
1916	Feb. 3, 1916	31.0	82,400	1958	Apr. 18, 1958	22.91	66,300
1917	Mar. 6, 28, 1917	29.2	68,000	1959	June 8, 1959	18.65	28,500
1918	Jan. 30, 1918	25.5	45,500	1960	Feb. 14, 1960	20.58	34,900
1919	Dec. 24, 1918	35.0	128,000	1961	Apr. 2, 1961	20.56	34,800
1920	Dec. 11, 1919	35.4	133,000				
1921	Feb. 11, 1921	35.1	129,000				
1922	Feb. 16, 1922	32.0	92,000				
1923	Feb. 28, Mar. 14, 1923	28.0	59,700				

1973. Savannah River near Jackson, S. C.
(Published as "at Ellenton" prior to 1938)

Location.--Lat 33°13', long 81°46', on left bank 0.4 mile downstream from Upper Three Runs, 7.7 miles southwest of Jackson, Aiken County, and at mile 155.5 upstream from Savannah, Ga.

Drainage area.--8,160 sq mi, approximately.

Gage.--Nonrecording prior to June 25, 1937; recording thereafter. Prior to June 25, 1937, at site 1.5 miles downstream at datum 75.09 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Datum of gage is 77.00 ft above mean sea level (levels by E. I. du Pont de Nemours & Co.).

Stage-discharge relation.--Not defined.

Remarks.--Peaks prior to June 25, 1937, are from graphs based on gage readings by the U.S. Weather Bureau. Peaks since December 1951 affected by storage in Clark Hill Reservoir. Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 4, 1929	37.82	-	1936	Apr. 9, 1936	36.9	-
				1937	Jan. 6, 1937	28.3	-
1931	Nov. 20, 1930	17.4	-	1956	Apr. 13, 1956	14.58	-
1932	Jan. 11, 1932	24.7	-	1957	May 9, 1957	13.68	-
1933	Dec. 31, 1932	23.4	-	1958	Apr. 13, 1958	20.72	-
1934	June 9, 1934	22.1	-	1959	June 9, 1959	18.11	-
1935	Mar. 16, 1935	20.8	-				

1975. Savannah River at Burtons Ferry Bridge, near Millhaven, Ga.

Location.--Lat 32°56'20", long 81°30'10", on downstream side of left pier of drawspan of bridge on U.S. Highway 301, 2 miles downstream from Rocky Creek, 9 miles east of Millhaven, Screven County, and at mile 114.5 upstream from Savannah.

Drainage area.--8,650 sq mi, approximately.

Gage.--Recording. Datum of gage is 52.42 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 141,000 cfs and extended by logarithmic plotting.

Remarks.--Peak discharges since December 1951 affected by storage in Clark Hill Reservoir. Base for partial-duration series, 35,000 cfs. Supplemental peaks for period 1948-51 only.

Peak stages and discharges of Savannah River at Burtons Ferry Bridge, near Millhaven, Ga.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	October 1929	a30.8	220,000	1949	Feb. 14, 1949	19.22	43,800
1940	Aug. 18, 1940	27.0	141,000		Feb. 24, 1949	18.32	37,100
1941	July 13, 1941	18.2	38,400		May 6, 1949	20.26	53,200
1942	Mar. 26, 1942	22.0	75,000	1950	Oct. 14, 1949	14.87	18,500
1943	Jan. 23, 1943	22.6	80,900	1951	Oct. 27, 1950	16.53	25,700
1944	Mar. 26, 1944	23.4	89,300	1952	Mar. 29, 1952	18.26	38,500
1945	May 1, 1945	18.8	42,900	1953	May 13, 14, 1953	b17.52	31,800
1946	Jan. 12, 1946	21.6	68,600	1954	Apr. 6, 1954	14.40	17,600
1947	Jan. 25, 1947	21.53	67,500	1955	Apr. 18, 1955	13.21	15,000
1948	Nov. 17, 1947	18.64	39,200	1956	Mar. 19, Apr. 14, 1956	c11.95	13,700
	Feb. 14, 1948	21.10	61,000	1957	May 11, 1957	12.27	13,900
	Mar. 12, 1948	20.06	51,400	1958	Apr. 22, 1958	18.94	41,400
	Apr. 6, 1948	19.11	45,000	1959	June 13, 1959	16.59	27,400
1949	Dec. 3, 1948	24.91	108,000	1960	Feb. 17, 1960	18.28	37,100
	Jan. 4, 1949	18.09	35,700	1961	Apr. 24, 25, 1961	17.60	32,400
	Jan. 11, 1949	19.40	45,400				

a From information by Corps of Engineers.

b Occurred on May 13, 1953.

c Occurred on Apr. 14, 1956.

1975.5. Little Brier Creek near Thomson, Ga.

Location.--Lat 33°20'24", long 82°27'29", on left bank at downstream side of bridge on State Highway 17, a half a mile upstream from mouth and 9 miles south of Thomson, McDuffie County.

Drainage area.--24 sq mi, approximately.

Gage.--Crest-stage gage prior to June 24, 1960; recording thereafter. Datum of gage is 313.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 300 cfs. Only annual peaks are shown prior to 1961.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Mar. 4, 1952	8.53	960	1960	Jan. 31, 1960	8.26	796
1953	Sept. 27, 1953	7.77	495				
1954	Jan. 16, 1954	7.02	210	1961	Feb. 25, 1961	8.94	1,300
1955	April 1955	7.85	550		Mar. 31, 1961	7.87	562
					Apr. 12, 1961	7.66	445
1956	Mar. 16, 1956	7.65	445		Apr. 15, 1961	7.96	610
1957	June 1957	7.22	272		Apr. 27, 1961	7.66	450
1958	Apr. 16, 1958	8.34	820		May 2, 1961	8.01	646
1959	May 1959	7.66	470				

1980. Brier Creek at Millhaven, Ga.

Location--Lat 32°56'00", long 81°39'05", near right bank on downstream side of pier of highway bridge at Millhaven, Screven County, 8½ miles upstream from Beaver Dam Creek.

Drainage area--646 sq mi.

Gage--Nonrecording prior to Apr. 30, 1951; recording thereafter. Prior to June 7, 1950, at site 200 ft downstream. Datum of gage is 95.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 20,000 cfs and extended above on basis of slope-conveyance studies.

Bankfull stage--8 ft.

Historical data--Maximum stage known, 25.1 ft in October 1929, from information by Georgia State Highway Department. The 1929 flood was probably the greatest since Millhaven plantation was settled in 1796.

Remarks--Base for partial-duration series, 2,000 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	October 1929	25.1	64,000	1952	Mar. 9, 1952	11.0	4,200
1938	Apr. 13, 1938	10.0	3,110		Mar. 29, 1952	9.4	2,760
1939	Mar. 3, 5, 1939	12.2	5,900	1953	Mar. 4, 1953	8.8	2,340
1940	Aug. 16, 1940	17.4	25,400		May 9, 1953	9.9	3,140
1941	July 22, 1941	9.4	2,720	1954	Dec. 20, 1953	7.4	1,560
1942	Mar. 26, 1942	10.9	4,100	1955	Apr. 20, 1955	10.0	3,220
1943	Mar. 26, 1943	10.9	4,100	1956	Mar. 22, 1956	9.6	2,900
1944	Mar. 28, 1944	12.4	6,360		Apr. 17, 1956	8.6	2,220
1945	Mar. 3, 1945	6.0	997	1957	Apr. 1, 1957	6.4	1,140
1946	Jan. 1, 1946	8.3	2,040	1958	Oct. 6, 1957	8.6	2,220
1947	Mar. 13, 1947	10.6	3,800		Mar. 4, 1958	8.8	2,340
1948	Nov. 17, 1947	9.3	2,550		Apr. 21, 1958	11.2	4,440
	Dec. 22, 1947	9.8	3,060	1959	Mar. 12, 1959	8.8	2,340
	Feb. 14, 1948	10.5	3,900	1960	Oct. 18, 1959	8.8	2,210
	Mar. 11, 1948	10.9	4,400		Feb. 3, 1960	-	4,200
	Mar. 21, 1948	10.7	4,100		Feb. 7, 1960	-	4,800
	Mar. 28, 1948	10.9	4,400		Feb. 14, 1960	11.8	5,220
	Apr. 3, 1948	11.2	4,700		Apr. 6, 1960	13.6	9,300
	Sept. 11, 1948	11.6	4,980	1961	Mar. 1, 2, 1961	12.1	5,790
1949	Dec. 3, 1948	11.4	4,700		Apr. 5, 1961	10.9	4,000
	Dec. 13, 1948	9.6	2,900		Apr. 17, 1961	12.6	7,240
	Jan. 5, 1949	8.7	2,280		May 3, 1961	9.6	2,780
	Feb. 14, 1949	9.5	2,830		May 7, 1961	9.6	2,780
	Feb. 25, 1949	8.5	2,220				
1950	Mar. 16, 1950	-	1,200				
1951	Mar. 21, 1951	6.3	1,060				

1985. Savannah River near Clyo, Ga.

Location--Lat 32°31'30", long 81°15'45", on downstream side of center pier of drawspan of bridge on Seaboard Air Line Railroad, 3 miles north of Clyo, Effingham County, and at mile 50.1 upstream from Savannah.

Drainage area--9,850 sq mi, approximately.

Gage--Nonrecording prior to June 13, 1945; recording thereafter. Prior to June 26, 1925, at datum 2.82 ft higher; from June 27, 1925, to Oct. 31, 1926, at datum 3.00 ft higher; from Nov. 1, 1926, to Jan. 30, 1933, at datum 4.00 ft higher, except from Sept. 30 to Oct. 23, 1929, gage section above 20 ft at datum 4.68 ft higher. All gage readings have been adjusted to present datum. Datum of gage is 13.41 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation--Defined by current-meter measurements below 120,000 cfs and extended by logarithmic plotting.

Bankfull stage--11 ft.

Remarks--Peaks are from graphs based on gage readings prior to June 13, 1945. Gage heights prior to 1930 furnished by Corps of Engineers and those for 1930-37 furnished by the U.S. Weather Bureau. Peak discharges since December 1951 affected by storage in Clark Hill Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Jan. 24, 1925	23.9	134,000	1944	Mar. 29, 1944	21.6	95,200
				1945	May 5, 1945	16.0	34,400
1926	Jan. 28, 1926	15.4	31,400	1946	Jan. 16, 1946	19.5	64,400
1927	Mar. 6, 1927	13.4	20,600	1947	Jan. 28, 1947	19.40	63,200
1928	Aug. 23, 1928	22.3	106,000	1948	Feb. 17, 1948	19.66	71,000
1929	Mar. 11, 1929	23.6	128,000	1949	Dec. 6, 1948	22.17	104,000
1930	Oct. 6, 1929	29.7	270,000	1950	Oct. 18, 19, 1949	a12.21	16,000
					Mar. 24, 1950		
1931	Nov. 28, 1930	12.77	18,200	1951	Nov. 1, 1950	13.38	22,600
1932	Jan. 15, 1932	19.18	59,600	1952	Apr. 2, 1952	16.90	41,300
1933	Jan. 4, 1933	19.2	59,600	1953	May 17, 1953	15.80	35,800
1934	June 15, 1934	17.2	43,800	1954	Apr. 12, 1954	12.49	18,800
1935	Mar. 22, 1935	15.2	29,100	1955	Apr. 23, 1955	11.35	15,500
1936	Apr. 13, 1936	26.0	176,000	1956	Mar. 22, 1956	b10.47	14,100
1937	Jan. 11, 1937	19.4	65,800	1957	May 15, 1957	11.15	15,000
1938	Apr. 15, 16, 1938	17.8	48,400	1958	Apr. 25, 1958	17.41	45,500
1939	Mar. 7, 8, 1939	20.4	70,100	1959	June 18, 1959	14.36	26,000
1940	Aug. 21, 22, 1940	23.6	128,000	1960	Feb. 19, 1960	17.35	40,900
1941	July 17, 1941	16.3	36,500	1961	Apr. 25, 1961	16.20	34,900
1942	Mar. 29, 1942	20.0	73,000				
1943	Jan. 27, 1943	20.0	73,000				

a Occurred on Oct. 19, 1949.

b Occurred on Apr. 17, 1956.

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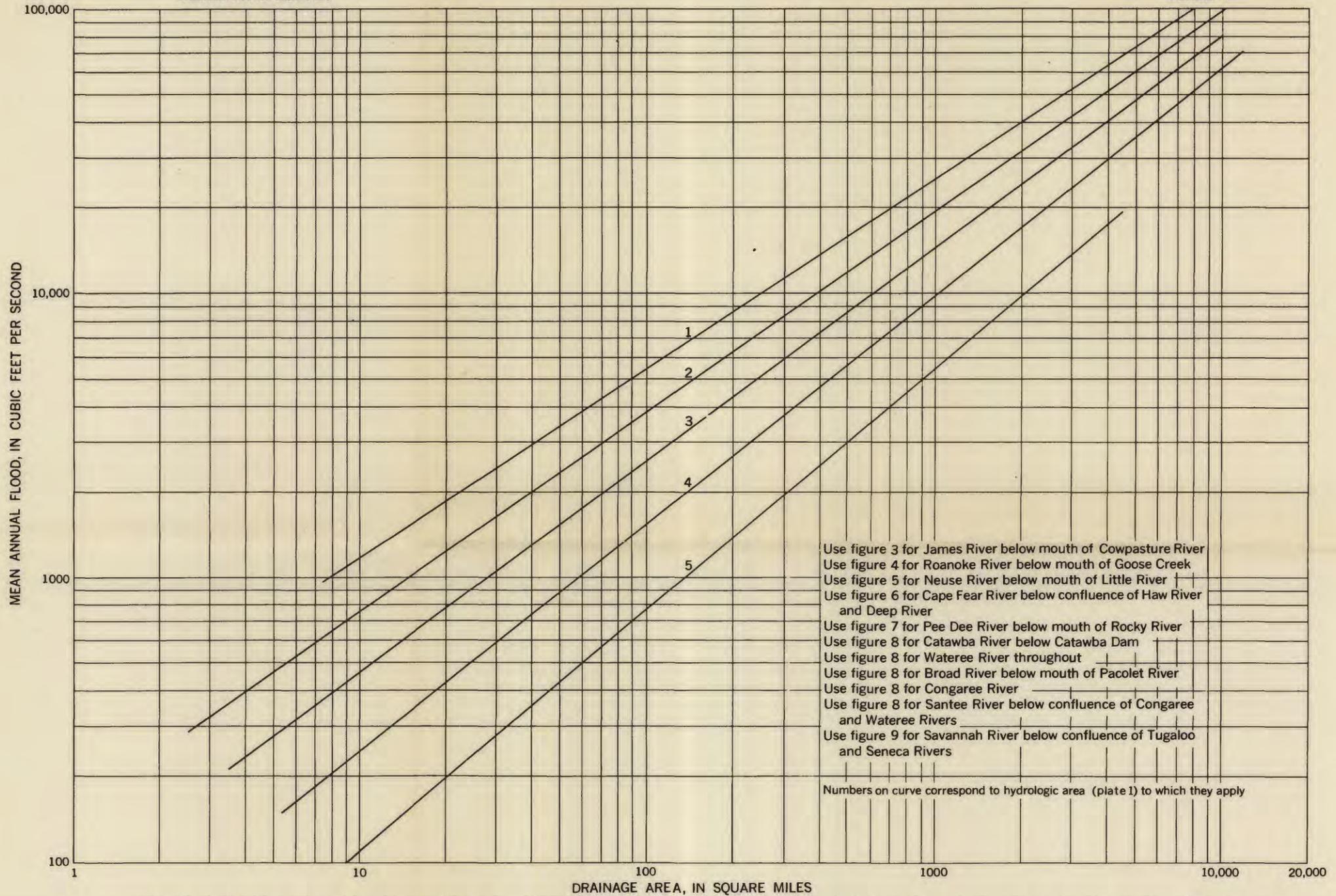
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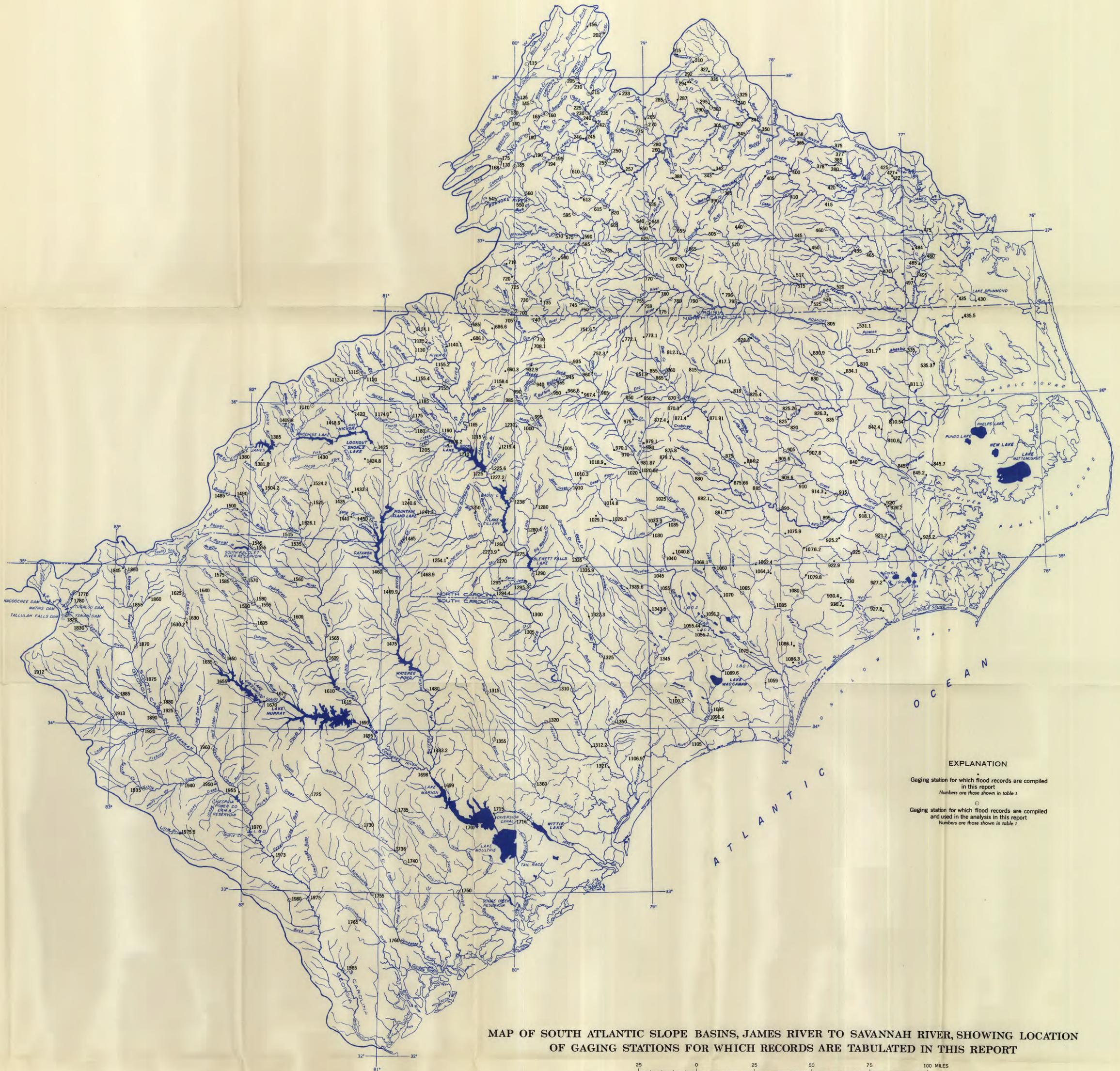
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VARIATION OF MEAN ANNUAL FLOOD WITH DRAINAGE AREA IN HYDROLOGIC AREAS 1-5



EXPLANATION

• Gaging station for which flood records are compiled in this report
Numbers are those shown in table 1

○ Gaging station for which flood records are compiled and used in the analysis in this report
Numbers are those shown in table 1

MAP OF SOUTH ATLANTIC SLOPE BASINS, JAMES RIVER TO SAVANNAH RIVER, SHOWING LOCATION OF GAGING STATIONS FOR WHICH RECORDS ARE TABULATED IN THIS REPORT

