Magnitude and Frequency of Floods in the United States

Part 1-A. North Atlantic Slope Basins, Maine to Connecticut

By A. RICE GREEN

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1671

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1964

UNITED STATES DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, *Secretary*

GEOLOGICAL SURVEY

Thomas B. Nolan, *Director*

The U.S. Geological Survey Library has cataloged this publication as follows:

Green, Alfred Rice, 1903–

Magnitude and frequency of floods in the United States. Pt. 1–A. North Atlantic slope basins, Maine to Connecticut. Washington, U.S. Govt. Print. Off., 1964.

x, 260 p. maps (1 fold. col. in pocket) diagrs., tables. 24 cm. (U.S. Geological Survey. Water-supply paper 1671)

Includes bibliography.

1. Floods—New England. 2. Stream measurements—New England. I. Title. (Series)

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

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MAGNITUDE AND FREQUENCY OF FLOODS IN THE UNITED STATES

PART 1–A. NORTH ATLANTIC SLOPE BASINS, MAINE TO CONNECTICUT

By A. Rice Green

ABSTRACT

This report presents a means for estimating the magnitude of a flood of any recurrence interval between 1.1 and 100 years at any site above which the drainage area is 35 square miles or larger, gaged or ungaged, and not materially affected by regulation or diversion, in the North Atlantic slope basins, Maine to Connecticut. Estimates can be made for basins as small as 10 square miles in many areas. Also, the frequency of a flood of known magnitude can be estimated if within the range of flood-frequency relations defined by the base data.

Curves showing the relation between the mean annual flood and a flood of any other frequency between 1.1 and 100 years were defined for three homogeneous flood-frequency regions. Two additional curves were defined on the basis of records only for some of the major streams. This relation varies with drainage area in two of the regions.

Other curves were defined showing the relation of the mean annual flood to drainage area in 10 hydrologic areas. Some of the hydrologic areas were combined, resulting in six curves; an additional curve is applicable only to the main stem of the Connecticut River.

The two relations are based on records 10 or more years in length in 1955 at 146 gaging stations. Records were not used if usable storage above the gaging station exceeds 4.5 million cubic feet (103 acre-feet) per square mile. Records used are the same as those for the 146 gaging stations in part 1–A used by Benson (1962b).

The report contains a compilation of flood records at all streamflow stations having 5 or more years of record through the 1960 water year. In general, peaks above a selected base discharge are listed. 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 shown. The report also contains tables showing the maximum known flood at gaging stations and outstanding floods at miscellaneous sites.

INTRODUCTION

PURPOSE AND SCOPE

This volume is one of a series of flood-frequency reports covering the entire conterminous United States. The purpose of the report is (1)

to present methods by which the magnitude of a flood of any selected frequency between 1.1 and 100 years may be estimated for gaged or ungaged sites, and (2) to show all known significant peak flood data.

The area covered by this report (fig. 1) is the North Atlantic slope basins, Maine to Connecticut, and is designated part 1–A in the series of reports published by the U.S. Geological Survey entitled, "Surface Water Supply of the United States."

ACKNOWLEDGMENTS

The report was prepared under the general direction of Tate Dalrymple, chief, Floods Section, U.S. Geological Survey. Unless otherwise noted in the individual station descriptions, the data were collected by the U.S. Geological Survey, with the assistance of many other Federal and State agencies, municipalities, corporations, and private individuals, for which credit is given in previously published streamflow reports of the U.S. Geological Survey.

PROCEDURE FOR ESTIMATING FLOOD FREQUENCY

The method of analysis used in this report is explained in Dalrymple's (1960) report and is not repeated here. The method for estimating the magnitude of a flood of a selected frequency at any point on a stream is based upon two curves: (1) a composite curve showing as ordinate the ratio of peak discharges to an index flood (mean annual flood) and as abscissa the recurrence interval in years, and (2) a curve showing the relation of the mean annual flood to size of the drainage basin.

MAGNITUDE OF FLOOD OF SELECTED FREQUENCY

STREAMS IN GENERAL

The following general procedure for determining flood magnitudes of selected frequencies is not applicable to the Connecticut River main stem, Allagash River main stem, St. John River below Allagash River, Fish River below Eagle Lake, and to any site above which the usable storage is more than 4.5 million cubic feet (103 acre-feet) per square mile.

1. Determine from plate 1 the flood-frequency region (A, B, or C) and hydrologic area (1 to 10) in which the site is located.
2. Determine the drainage area above the selected site.
3. Determine the discharge of the mean annual flood from the appropriate hydrologic area curve in figure 2.
4. Determine the ratio of the mean annual flood for the flood of the selected recurrence interval from the appropriate curve in figures 3, 4, or 5.

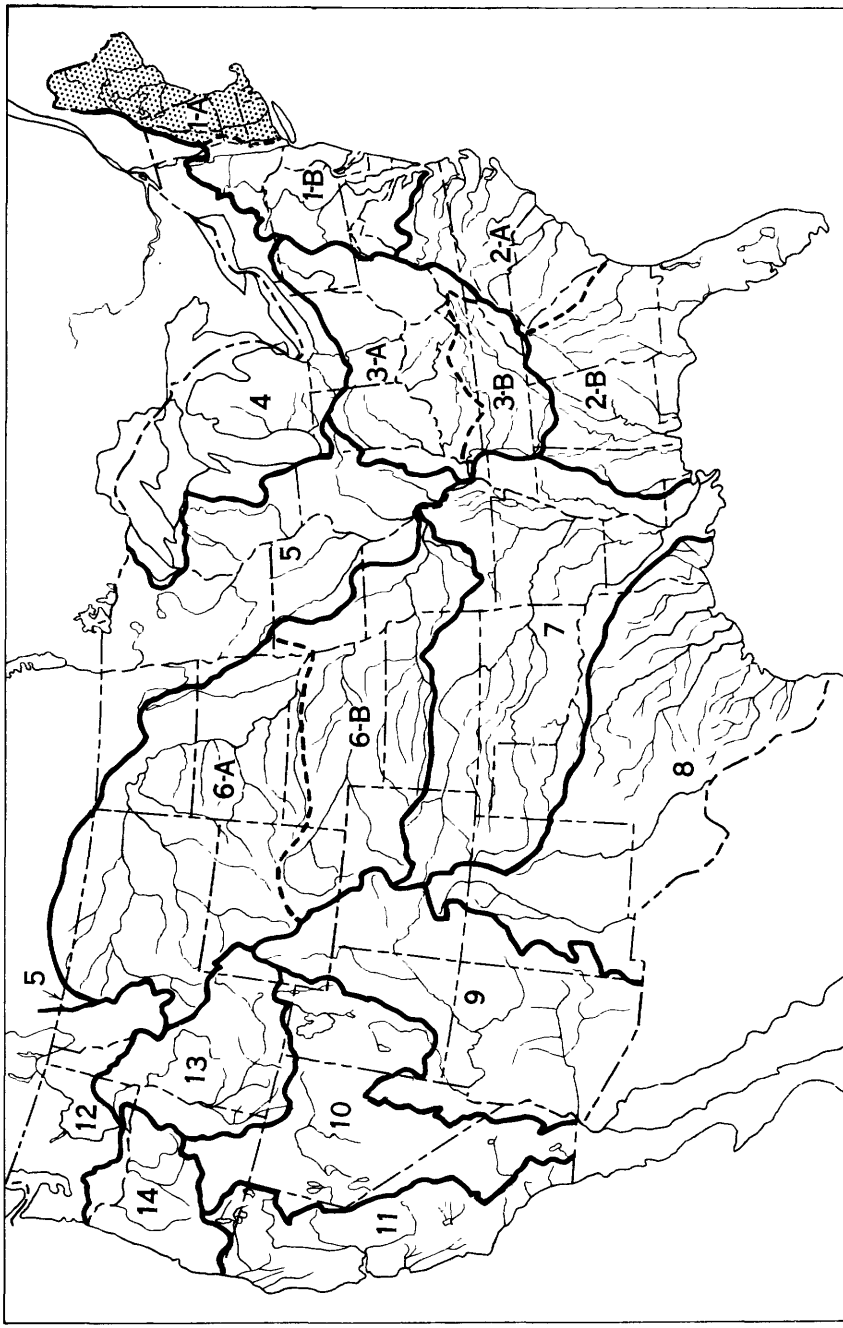

FIGURE 1.—Map of the conterminous United States. The area covered by this report is shaded.

5. Multiply the discharge of the mean annual flood (step 3) by the ratio (step 4) to obtain the discharge for the flood of the selected frequency.
6. A complete flood-frequency curve for the site can be constructed by repeating steps 4 and 5 for several selected recurrence intervals and drawing a smooth curve through the plotted points.

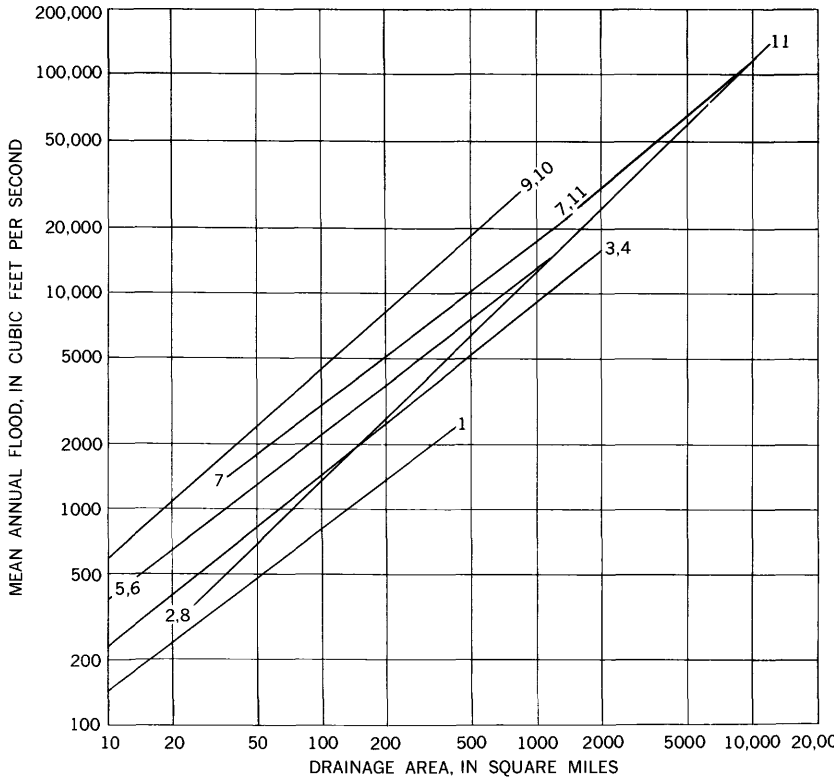

FIGURE 2.—Variation of mean annual flood with drainage area in hydrologic areas 1–11. Area 11 is the main stem of the Connecticut River.

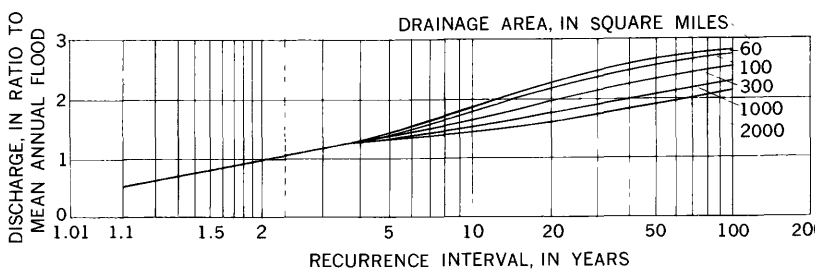

FIGURE 3.—Composite frequency curves for region A.

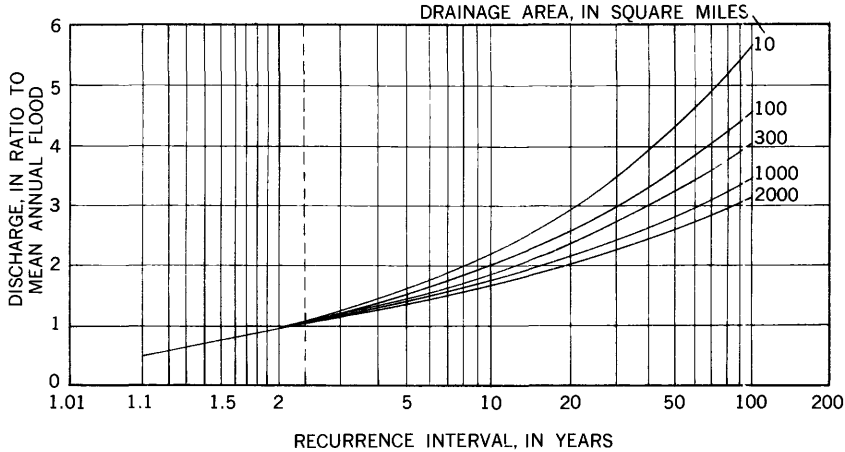

FIGURE 4.—Composite frequency curves for region B.

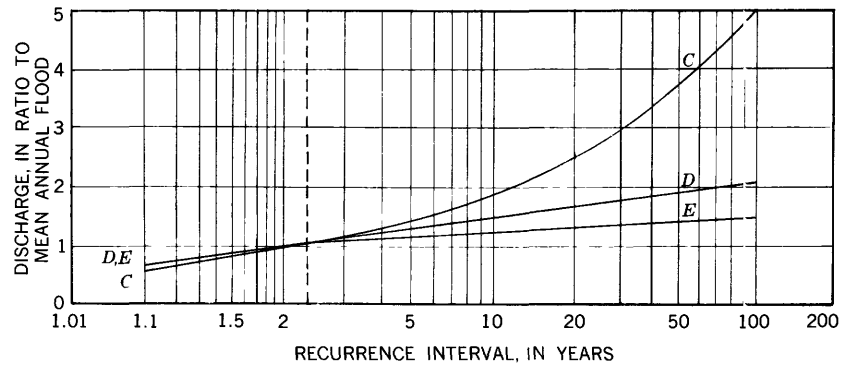

FIGURE 5.—Composite frequency curves for regions C, D, and E. Curve *D* applies to Connecticut River main stem. Curve *E* applies to Allagash River main stem, St. John River below Allagash River, and Fish River below Eagle Lake.

For sites in regions A and B, an alternative procedure to the general procedure just given is as follows:

1, 2, and 3. Same as before.

4. Determine the ration to the mean annual flood for the flood of the selected recurrence interval from the 300-square-mile curve in figure 3 or 4.
5. Multiply the ratio determined in step 4 by the adjustment factor from the appropriate curve in figure 6.
6. Multiply the discharge of the mean annual flood (step 3) by the adjusted ratio (step 5) to obtain the discharge for the flood of the selected frequency.

There is no difference in the accuracy of results obtained by the two methods, and a second method is presented only for ease in application.

Use of the first method is more convenient if one desires to estimate the frequency of a flood of known discharge; the second, if one desires to estimate the discharge of a flood of a selected frequency.

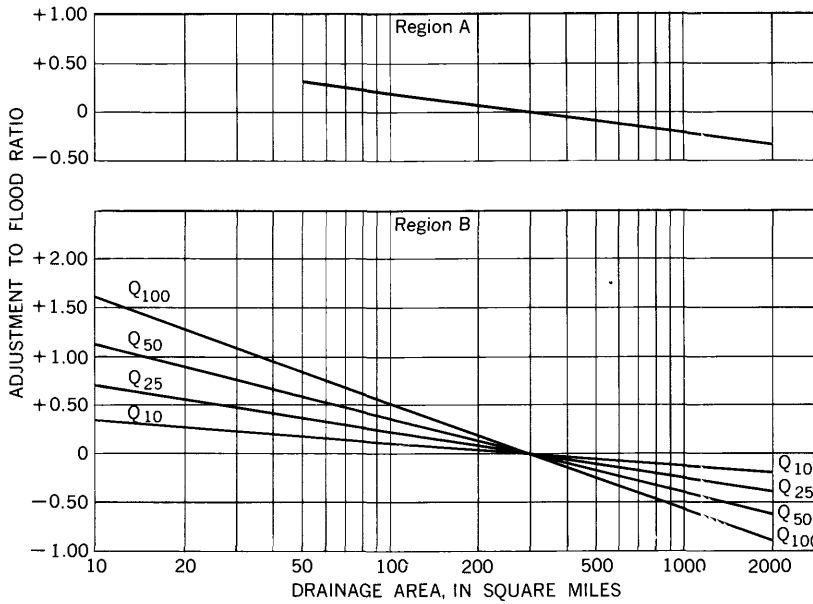

FIGURE 6.—Adjustment to flood ratio for regions A and B on basis of drainage area.

MAIN-STEM STREAMS

CONNECTICUT RIVER

1. Determine the drainage area above the selected site.
2. Determine the discharge of the mean annual flood from hydrologic area 11 curve in figure 2.
3. Determine the ratio to the mean annual flood for the flood of the selected recurrence interval from curve *D* in figure 5.
4. Multiply the discharge of the mean annual flood (step 2) by the ratio (step 3) to obtain the discharge for the flood of the selected frequency.
5. A complete frequency curve for the site can be constructed by repeating steps 3 and 4 for several selected recurrence intervals and drawing a smooth curve through the plots.

ALLAGASH RIVER, ST. JOHN RIVER BELOW ALLAGASH RIVER, AND FISH RIVER BELOW EAGLE LAKE

1. Determine the drainage area above the selected site.
2. Determine the discharge of the mean annual flood from the curve for hydrologic area 8 in figure 2.

3. Determine the ratio to the mean annual flood for the flood of the selected recurrence interval from curve *E* in figure 5.
4. Proceed as explained in steps 4 and 5 for the Connecticut River.

ILLUSTRATIVE PROBLEM

Assume that a proposed bridge across Pemigewasset River near Woodstock, N.H., lat 44°00′, long 71°41′, is designed to withstand a flood of 50-year frequency. The problem then is to compute the discharge for a 50-year flood.

1. General procedure is applicable for the site.
2. The site is in region B, area 10 (pl. 1).
3. The drainage area measured from the best available maps is 180 square miles.
4. The discharge of the mean annual flood is 7,700 cfs (fig. 2).
5. The ratio of the 50-year flood to the mean annual flood for a 300-square-mile basin is 3.24 (fig. 4).
6. The adjustment factor for a 180-square-mile basin is +0.16 (fig. 6).
7. The adjusted ratio is 3.40, obtained by 3.24+0.16.
8. The discharge for the 50-year flood is 26,200 cfs (cubic feet per second), obtained by 7,700 cfs×3.40.

The frequency of a flood can be estimated from a known discharge, if the magnitude-frequency relations are within the limits of the curves defined by the base data. For example at the site just given:

1. A peak discharge of 26,200 cfs has been measured.
2. The site is in region B, area 10 (pl. 1).
3. The discharge of the mean annual flood is 7,700 cfs (fig. 2).
4. The ratio of the measured discharge to the mean annual flood discharge is 3.40, obtained by 26,200 cfs÷7,700 cfs.
5. The frequency of the flood is 50 years (fig. 4).

FLOOD-FREQUENCY ANALYSIS

Composite curves presented are based on the annual flood series. Conversion to the partial-duration flood series can be made by use of the following table by Langbein (1949):

Recurrence intervals, in years

Annual flood series	*Partial-duration flood series*	*Annual flood series*	*Partial-duration flood series*
1.16	0.5	10.5	10
1.58	1.0	20.5	20
2.00	1.45	50.5	50
2.54	2.00	100.5	100
5.52	5.0		

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The foregoing table shows that results obtained by use of either series are virtually the same for recurrence intervals of greater than 10 years. As most designs are for intervals of greater than 10 years, choice of series is of little practical importance. When it is desirable to know how often, on the average, a stream will exceed a selected discharge (as, for example, in designing a low fill across a valley on a secondary road so that the higher floods will overflow the road), the frequency curve based on the partial-duration series should be used. The simplest solution to this problem is to convert the curve based on the annual flood series by use of the relation expressed in the preceding table; results will be entirely adequate.

Some users may wish to base estimates of future floods on the recurrence interval or its inverse, which is the probability of occurrence in any one year. Others may wish to consider the probability of occurrence of a selected flood in some future period of years, such as a period equal to the expected life of the structure. The relations between selected recurrence intervals and probability of occurrence during selected time periods are shown as follows:

Recurrence interval of flood (years)	Probability of a flood of indicated recurrence interval being exceeded 1 or more times during indicated time periods (years)			
	10	25	50	100
10	0. 65	0. 928	0. 9948	0. 99997
25	. 34	. 64	. 87	. 983
50	. 18	. 40	. 64	. 87
100	. 10	. 22	. 40	. 63

RECORDS USED

Records used in this report are the same as those for the 146 gaging stations in part 1–A used by Benson (1962b). Also, the same flood-frequency curves constructed by Benson for individual stations were used for this report.

FLOOD-FREQUENCY REGIONS

Part 1–A was divided into three flood-frequency regions; A, B, and C, as shown in plate 1. The following main stems are also considered as separate regions: Connecticut River is region D; Allagash River, St. John River below Allagash River, and Fish River below Eagle Lake constitute region E. By a statistical test, the records indicate that each of these regions is homogeneous with respect to flood-frequency characteristics. The composite frequency curves

shown in figures 3, 4, and 5 show the relation of flood peaks to the mean annual flood in each of the regions.

VARIATION OF FLOOD RATIO WITH DRAINAGE AREA

In regions A and B, the ratio of flood discharges to the mean annual flood discharge varies with drainage area. The composite curve for a drainage area of 300 square miles is the base frequency curve. The adjustment factors to be applied to the ratios from the base frequency curve to obtain ratios for drainage areas other than 300 square miles are given in figure 6. For convenience in application, the adjustment factors are incorporated in the family of curves for region A (fig. 3) and region B (fig. 4).

No variation of the flood ratio with drainage area was evident on the basis of records for regions C, D, and E; therefore, the one composite frequency curve for each region as shown in figure 5 is applicable to basins of any size, within limits of the base data, in these regions.

HYDROLOGIC AREAS

Determination of the magnitude of the mean annual flood for any site, gaged or ungaged, for which the floodflow is not materially affected by regulation or diversion is accomplished by first dividing part 1–A into 10 hydrologic areas as shown in plate 1. The relation of mean annual flood to drainage area in each of the outlined areas is expressed in correspondingly numbered curves shown in figure 2. Curve 11 in figure 2 applies to the main stem of the Connecticut River. Six curves (plus No. 11 for the main stem of the Connecticut River) shown in figure 2 show the relation of drainage area to mean annual flood in the 10 hydrologic areas outlined in plate 1.

OTHER STUDIES

Benson (1962b) evaluated the effect of all known significant variables on flood peaks in New England. The purpose of Benson's study was to determine the hydrologic variables that are responsible for the variation in flood peaks from one place to another and to examine the relative effect of the variables. He derived a formula for computing the magnitude of floods of selected frequencies ranging from 1.2 to 300 years; limitations of the formula are explained on page 57 of his report. Recognition of previous flood studies in New England is given on pages 3 and 4 of Benson's report. In addition to the studies cited by Benson (1962b), the U.S. Army Corps of Engineers (July 1958) published the results of a flood-frequency study for New England. The corps study demonstrates the differ-

ence of frequency curves based on hurricane floods and of those based on nonhurricane floods, and stresses the difficulty of estimating the true frequency of outstanding floods. The study concludes that the floods of 1955, 1936, and 1927 in New England are truly rare events.

The chief purpose of this report is to present a practical means of obtaining flood-frequency relations by simple methods that are consistent with the methods used throughout the nationwide series of flood-frequency reports.

The following table shows a comparison of discharges obtained from methods presented in this report and from use of Benson's (1962b) formula. The average deviation in percent, without respect to sign, of discharges in cubic feet per second indicated by the individual gaging-station flood-frequency curves from discharges computed by Benson (1962b) and from discharges computed from curves shown in this report, is given below. Percentage differences are shown for three flood frequencies—the mean annual flood, the 25-year flood, and the 50-year flood.

	Average percentage of deviation of gaging-station discharges from computed discharges		
	$Q_{2.33}$	Q_{25}	Q_{50}
Benson's (1962b) formula	18. 2	17. 8	18. 8
Curves used in this report	13. 0	20. 7	21. 8

The figures in the preceding table represent average deviations for the 146 gaging stations used in this report. Deviations for some individual gaging stations are much greater, as would be expected. The comparison does not attempt to indicate the accuracy of results for ungaged sites.

It is emphasized that the simple methods of estimating flood frequencies presented in this report will give good results only where effective variables other than size of drainage basin (such as basin slopes or storage in natural ponds) have near-average values. For ungaged sites where the values for such variables are far from the regional average, the usefulness of the methods presented in this report is questionable, and the user may wish to consider other variables evaluated by Benson (1962b).

SUMMARY

Curves presented in this report can be used to estimate the magnitude of a flood of any selected frequency between 1.1 and 100 years (or the frequency of a flood of known magnitude) for any site in part 1–A

for which the drainage area is 35 square miles or larger (10 square miles for some areas), gaged or ungaged, on any stream not materially affected by regulation or diversion. The procedure, however, is not applicable to floodflow at sites above which the usable storage exceeds 4.5 million cubic feet (103 acre-feet) per square mile. All curves shown in this report have been extended to limits warranted by the base data, and extension of any curve beyond the limits is not recommended. Records used in this report are the same as the records for the 146 gaging stations used in part 1–A by Benson (1962b). Also, the same flood-frequency curves constructed by Benson for individual stations were used for this report.

The size of the drainage basin was the only independent variable used in determining mean annual flood. In delineating the several hydrologic areas, one indirectly recognizes the effect of other variables. In general, the station mean annual flood for all stations used in this report is within 25 percent of its applicable hydrologic area curve.

FLOOD RECORDS AT GAGING STATIONS AND MISCELLANEOUS SITES

A summary of pertinent data relative to maximum known floods in part 1–A is contained in the following three tables: Table 1 for gaging stations used in the analysis, table 2 for gaging stations not used in the analysis, and table 3 for miscellaneous sites and gaging stations having short-term (less than 5 years of record through 1960) records. The station data are listed in downstream order, in keeping with the system currently being used by the Geological Survey. In tables 1 and 2 each station is referred to by a number permanently assigned to the respective station by the Geological Survey. The prefix denoting the "part" has been omitted because all listed stations are in the same "part" (1–A). Sites for data in table 3 are numbered consecutively beginning with 1. The period of known floods is the period, in water years, during which the listed 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 maximum peak discharges listed in tables 1 and 3 are shown graphically in figures 7–14 by curves representing the 10-year flood and the 100-year flood. These curves can be used as an aid in judging the frequency of the maximum flood at a particular site. Floods at gaging stations are shown by solid circles, and floods at miscellaneous sites are shown by open circles. The peaks listed in table 2 are not shown because they are affected by manmade changes and do not therefore represent natural-flow conditions.

Following the tables of maximum known floods is a compilation of flood peaks for 254 gaging stations in part 1–A. A brief description of the gaging station is given, accompanied by a tabulation of all floods above a selected base discharge, except for a few stations for which only annual floods are listed. Peaks are listed for all streamflow stations for which 5 or more years of annual peaks are available through the 1960 water year.

Unless otherwise noted, the peaks are arranged by the water year, which extends from October 1 through September 30 and is identified by the calendar year in which it ends. Thus a peak which occurred October 15, 1953, would be listed in the 1954 water year. Annual peaks are listed even when they are below the selected base discharge.

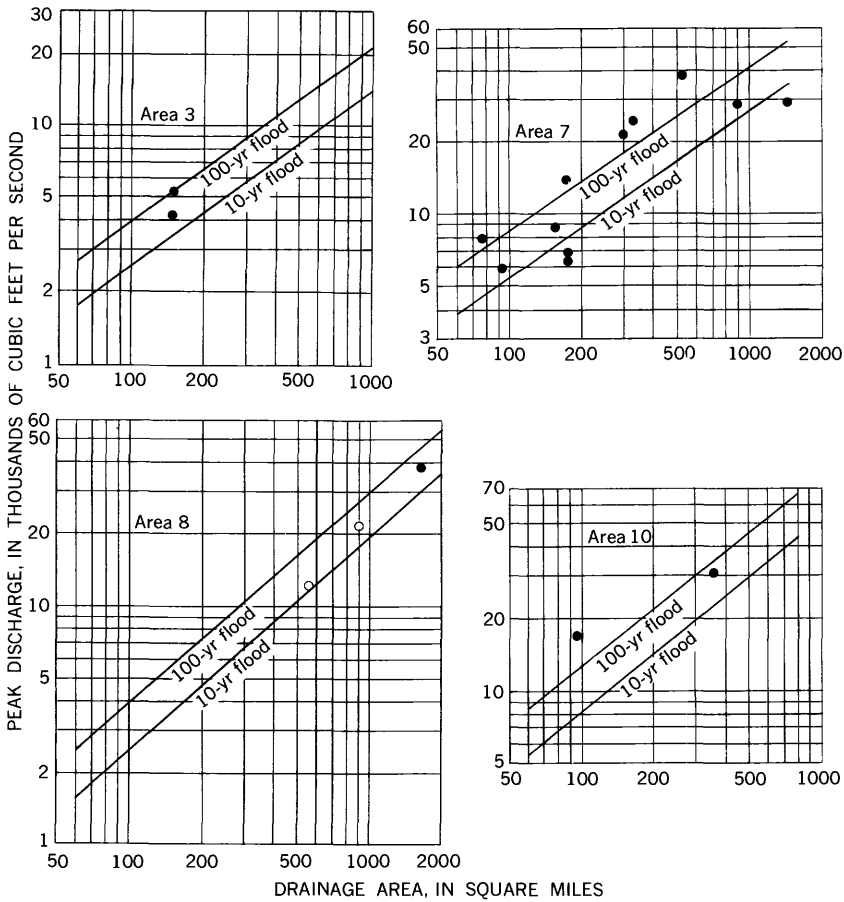


FIGURE 7.—Relation of maximum to 10- and 100-year floods in region A. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

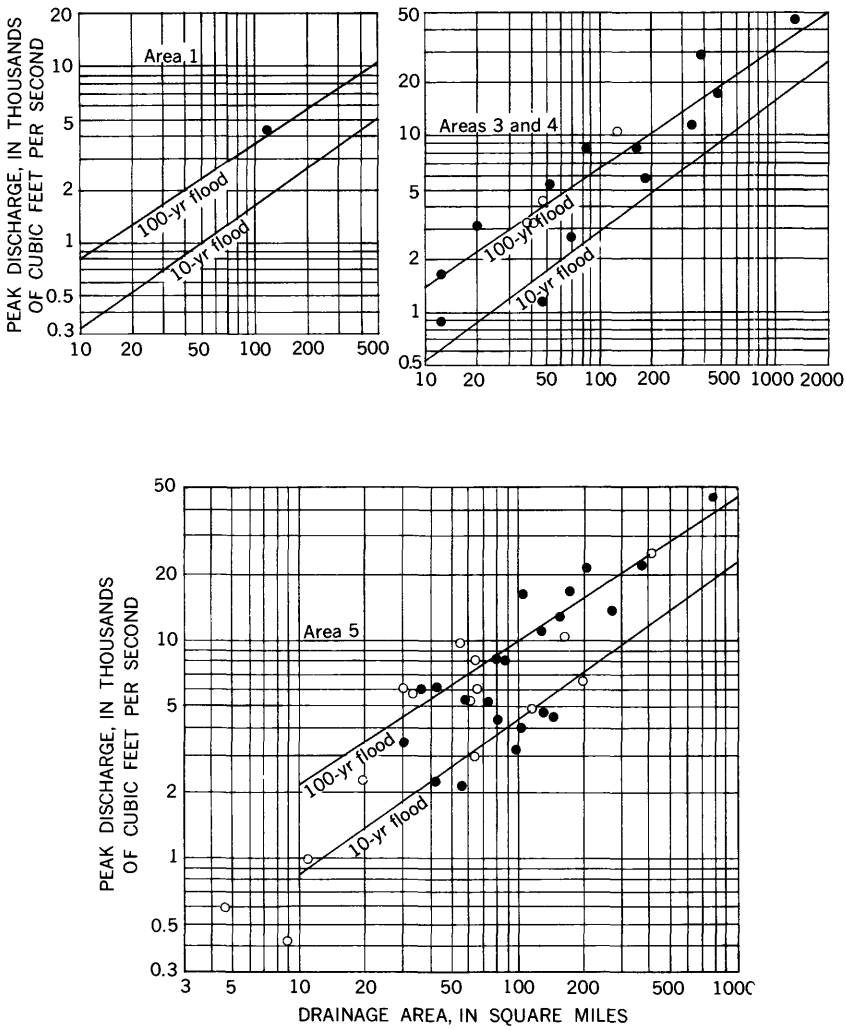
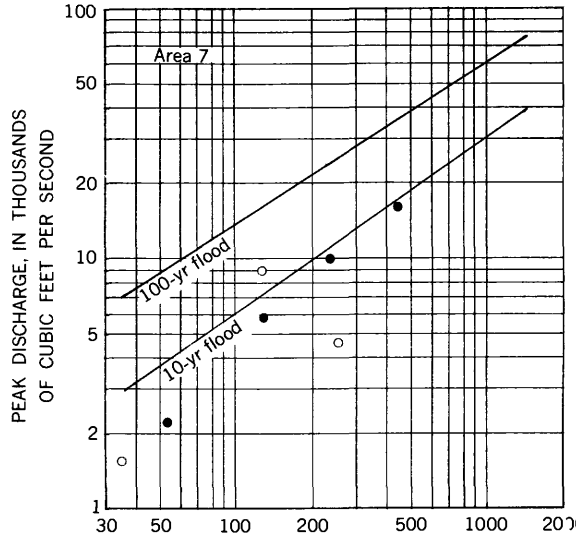


FIGURE 8.—Relation of maximum to 10- and 100-year floods in region B, areas 1, 3, 4, and 5. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.



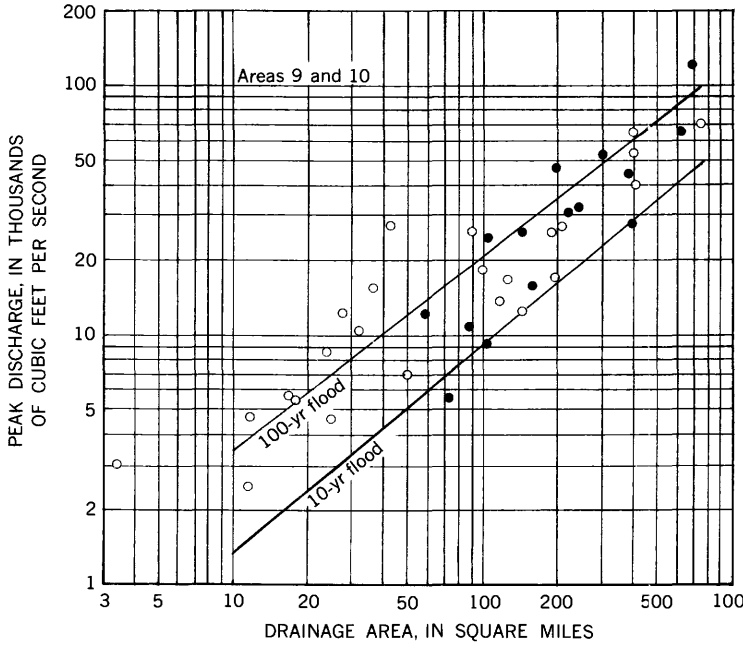


FIGURE 9.—Relation of maximum to 10- and 100-year floods in region B, areas 7, 9, and 10. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

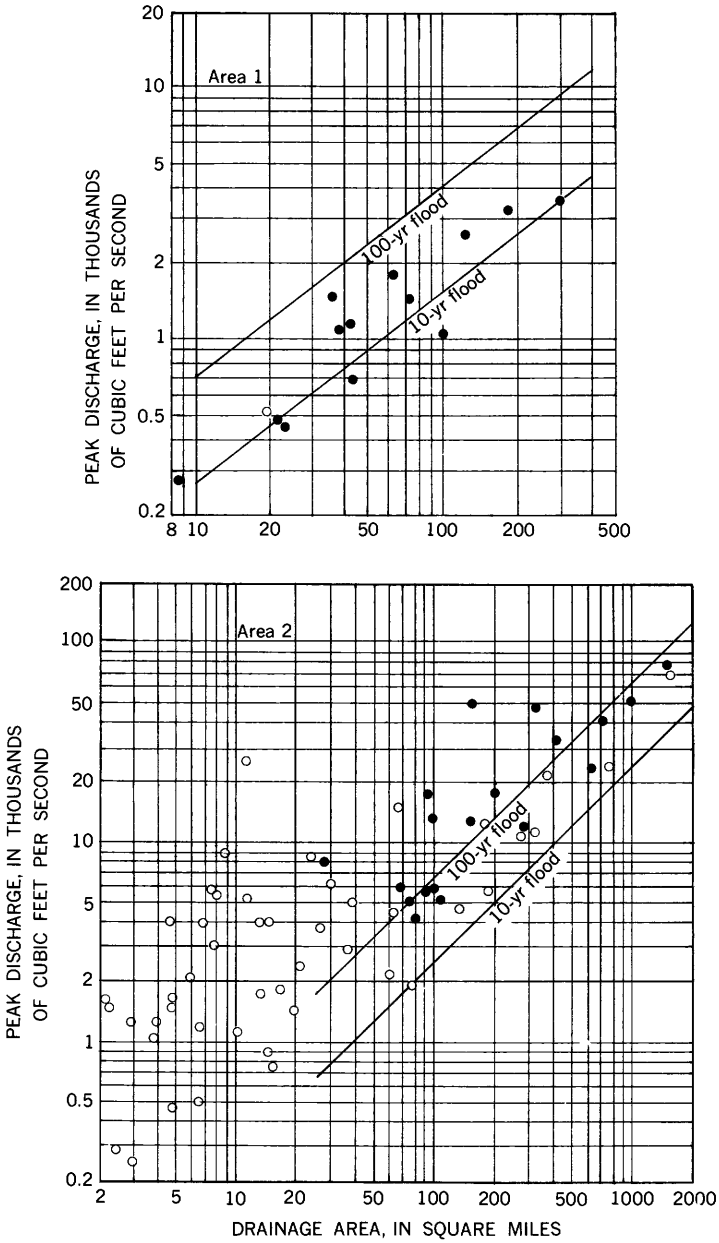


FIGURE 10.—Relation of maximum to 10- and 100-year floods in region C, areas 1 and 2. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

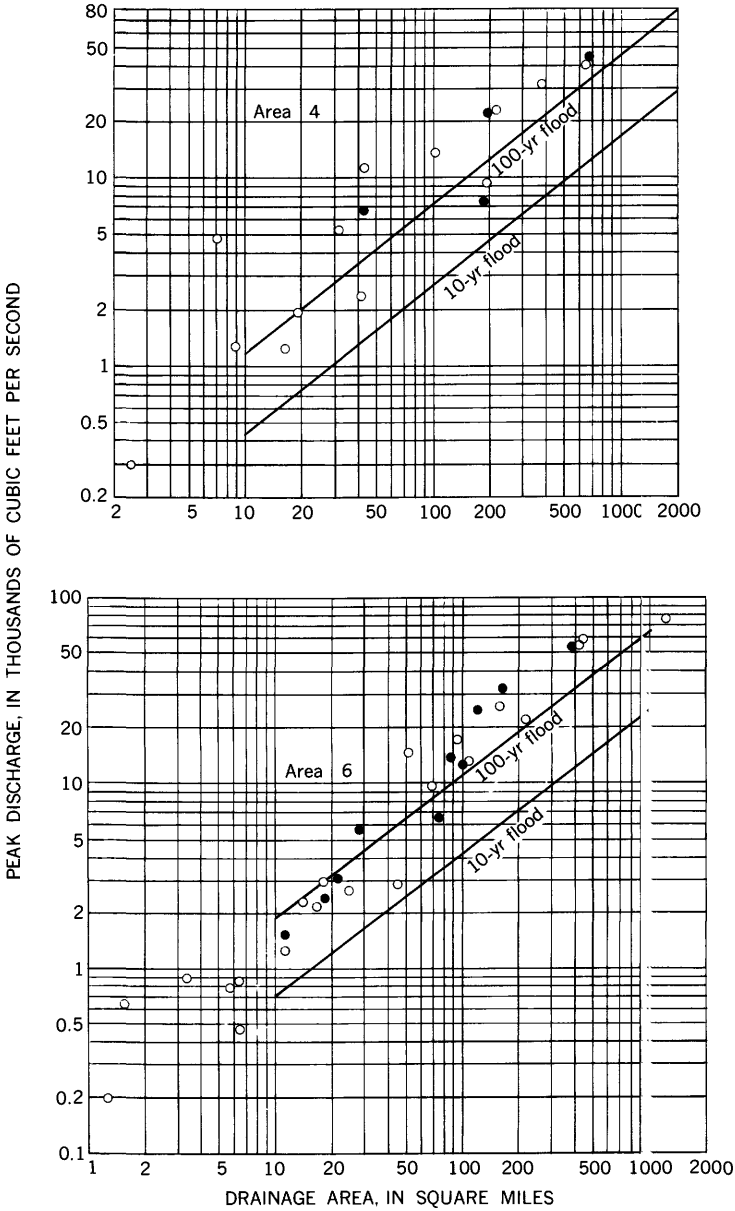


FIGURE 11.—Relation of maximum to 10- and 100-year floods in region C, areas 4 and 6. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

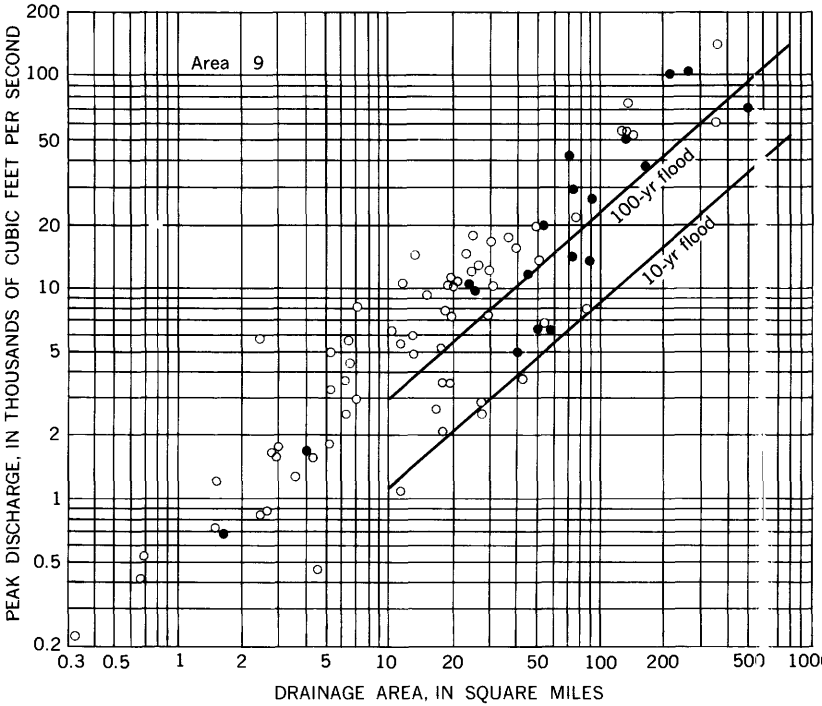


FIGURE 12.—Relation of maximum to 10- and 100-year floods in region C, area 9. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

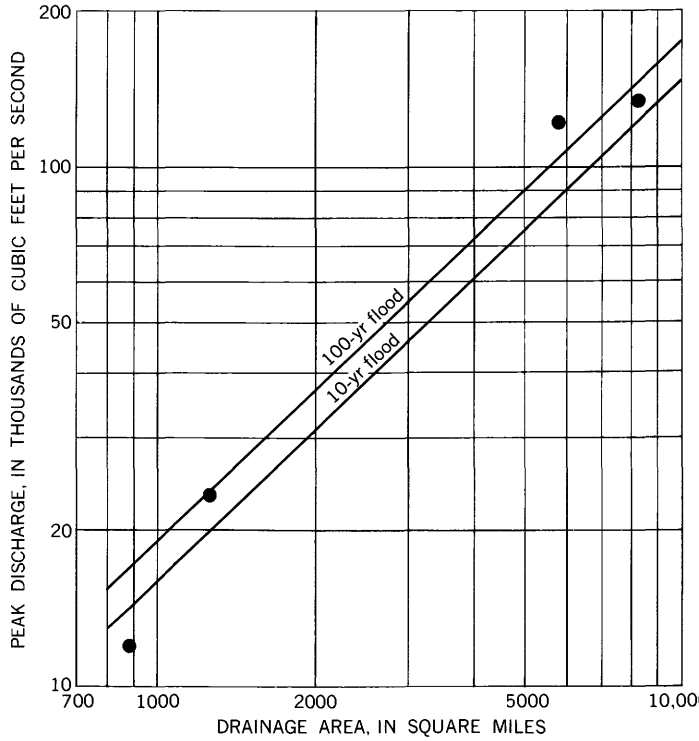


FIGURE 13.—Relation of maximum to 10- and 100-year floods on the main stems of the Allagash River, St. John River below Allagash River, and Fish River below Eagle Lake. Solid circle indicates discharge at gaging station.

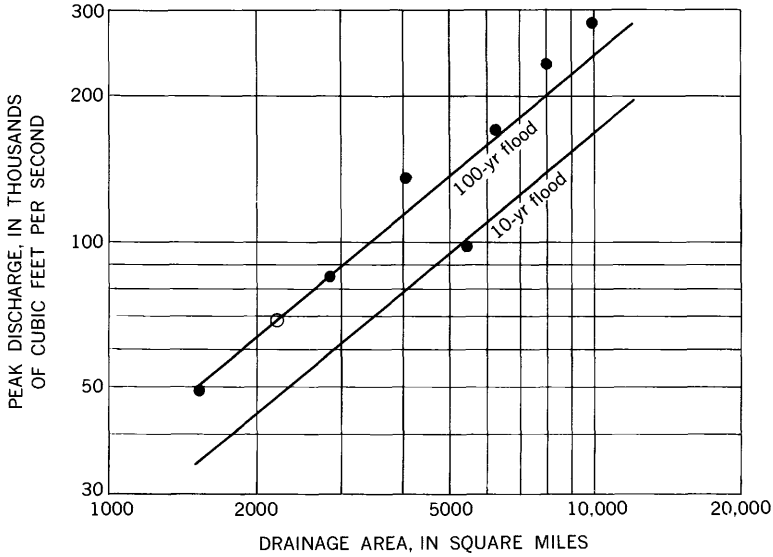


FIGURE 14.—Relation of maximum to 10- and 100-year floods on the main stem of the Connecticut River below Israel River. Solid circle indicates discharge at gaging station; open circle, at miscellaneous site.

Underlines in the tabular data have the following significance:

1. A horizontal line in the water-year column indicates discontinuous records.
2. A line across the gage-height column indicates a change in gage datum; this change 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 site of sufficient magnitude to affect the stage-discharge relation.

MAXIMUM KNOWN FLOODS

Table 1.--Maximum and mean annual floods at gaging stations used to define regional flood-frequency relations

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	St. John River basin									
110	Allagash River near Allagash, Maine.....	8	1,250	1910-11, 1932-60	16,000	May 5, 1933	-	23,400	18.7	80
						Apr. 23, 1960	a14.16	-	-	-
135	Fish River near Fort Kent, Maine.....	8	871	1904-8,1930-60	11,400	Apr. 26, 1958	10.81	12,000	13.8	3
140	St. John River below Fish River at Fort Kent, Maine.	8	5,690	1927-60	70,000	May 5, 1933	25.1	121,000	21.3	*1.22
150	St. John River at Van Buren, Maine.....	8	8,270	1909-28	100,000	May 2, 1923	29.2	135,000	16.3	25
170	Aroostook River at Washburn, Maine.....	A8	1,652	1931-60	21,300	Mar. 22, 1936	-	37,800	22.9	28
						Apr. 6, 1951	a15.78	-	-	-
180	Meduxnekeag River near Houlton, Maine.....	A7	175	1941-60	4,650	Mar. 27, 1953	a10.83	-	-	-
						Apr. 23, 1958	-	6,620	37.8	6
	Union River basin									
230	West Branch Union River at Amherst, Maine...	A3	148	1909-10, 1912-19,1930-60	1,990	Apr. 13, 1940	-	4,140	28.0	20
						Mar. 9, 1942	a10.41	-	-	-
	Penobscot River basin									
305	Mattawamkeag River near Mattawamkeag, Maine.	A7	1,418	1935-60	23,000	Mar. 23, 1936	15.34	29,200	20.6	5
315	Piscataquis River near Dover-Foxcroft, Maine	A7	297	1903-60	6,900	Apr. 29, 1923	17.67	21,500	72.4	*1.34
335	Pleasant River near Milo, Maine.....	A7	322	1921-60	7,400	Apr. 30, 1923	14.33	24,400	75.8	*1.43
365	Kenduskeag Stream near Kenduskeag, Maine....	A7	178	1942-60	4,700	Sept.12, 1954	14.83	6,440	36.2	5
	Sheepscot River basin									
380	Sheepscot River at North Whitefield, Maine..	A3	148	1939-60	1,990	Apr. 13, 1940	b11.81	5,260	35.5	80
	Kennebec River basin									
450	Dead River at The Forks, Maine.....	A7	872	1903-7,1911-17, 1919-20, 1922-60	15,700	Mar. 20, 1936	10.54	28,700	32.9	23
460	Austin Stream at Bingham, Maine.....	A7	91.1	1932-60	2,800	Sept.17, 1932, Nov. 27, 1950	-	5,820	63.9	16
470	Carrabassett River near North Anson, Maine..	A10	354	1926-60	14,000	Mar. 13, 1936	a17.63	-	-	-
						Mar. 19, 1936	21.17	30,800	87.0	40
480	Sandy River near Mercer, Maine.....	A7	514	1929-60	10,400	Mar. 19, 1936	16.75	38,600	75.1	*1.69
	Androscoggin River basin									
525	Diamond River near Wentworth Location, N. H.	A7	153	1942-60	4,200	June 16, 1943	10.66	8,630	56.4	18
550	Swift River near Roxbury, Maine.....	A10	95.8	1930-60	4,350	Oct. 24, 1959	12.87	16,800	175	*1.50
555	Nezinscot River at Turner Center, Maine.....	A7	171	1942-60	4,600	Mar. 27, 1953	11.18	13,900	81.3	*1.22
570	Little Androscoggin River near South Paris, Maine.	A7	76.2	1914-23, 1932-60	2,500	Mar. 27, 1953	12.41	8,000	105	*1.23

	Saco River basin									
645	Saco River near Conway, N. H.....	B10	386	1904-9, 1929-60	15,000	Mar. 27, 1953	17.20	43,900	114	40
650	Ossipee River at Effingham, Falls, N. H.....	B3	330	1943-60	3,750	Mar. 28, 1953	11.64	11,700	35.5	47
655	Ossipee River at Cornish, Maine.....	B3	453	1917-60	4,900	Mar. 21, 1936	16.32	17,200	38.0	75
660	Saco River at Cornish, Maine.....	B3	1,298	1917-60	11,100	Mar. 21, 1936	21.90	45,000	34.7	*1.48
665	Little Ossipee River near South Limington, Maine.	B3	161	1936,1941-60	2,120	Mar. 19, 1936	-	c8,530	53.0	75
	Piscataqua River basin									
730	Oyster River near Durham, N. H.....	B3	12.1	1935-60	275	Mar. 19, 1936	7.45	-	-	-
						Sept.11, 1954	-	862	71.2	24
735	Lamprey River near Newmarket, N. H.....	B3	183	1935-60	2,350	Mar. 20, 1936	14.88	5,490	30.0	17
	Merrimack River basin									
745	East Branch Pemigewasset River near Lincoln, N. H.	B10	104	1929-60	4,700	Oct. 25, 1959	-	24,200	233	*1.43
						Mar. 9, 1942	a10.51	-	-	-
750	Pemigewasset River at Woodstock, N. H.....	B10	193	1940-60	8,200	Oct. 24, 1959	16.13	47,000	244	*1.71
755	Baker River at Wentworth, N. H.....	B10	58.8	1941-52	2,800	June 14, 1942	14.82	12,000	204	60
760	Baker River near Rumney, N. H.....	B10	143	1927,1929-60	6,200	Nov. 3, 1927	17.4	25,900	181	85
765	Pemigewasset River at Plymouth, N. H.....	B10	622	1940-60	23,000	Mar. 19, 1936	29.0	65,400	105	42
780	Smith River near Bristol, N. H.....	B5	85.8	1885-1960	1,970	Mar. 19, 1936	16.09	8,100	94.4	70
820	Contoocook River at Peterboro, N. H.....	B4	68.1	1938, 1946-60	1,090	September 1938	15	-	-	-
						Nov. 26, 1950	6.35	2,640	38.8	15
830	Nubanusit Brook near Peterboro, N. H.....	B4	46.9	1921-31, 1946-60	800	Apr. 11, 1931	5.59	1,130	24.1	4
840	North Branch Contoocook River near Antrim, N. H.	B5	54.8	1925-60	1,400	Mar. 19, 1936	9.30	5,000	91.2	40
845	Beards Brook near Hillsboro, N. H.....	B5	55.4	1946-60	1,410	Nov. 26, 1950	6.59	-	-	-
						Oct. 25, 1959	-	2,190	39.5	5
850	Contoocook River near Henniker, N. H.....	B5	368	1938,1940-60	6,000	Sept.21, 1938	21.3	22,200	60.3	80
860	Warner River at Davisville, N. H.....	B5	146	1938, 1940-60	2,990	September 1938	12.8	-	-	-
						Mar. 27, 1953	9.88	4,510	30.9	5
870	Blackwater River near Webster, N. H.....	B5	129	1919-20, 1927-60	2,700	Mar. 19, 1936	11.78	11,000	85.3	75
880	Contoocook River at Penacook, N. H.....	B5	766	1929-60	10,700	Mar. 20, 1936	14.26	46,800	61.1	*1.50
895	Suncook River at North Chichester, N. H.....	B5	157	1919-20, 1922-27 1929-60	3,150	Mar. 19, 1936	15.27	12,900	82.2	80
910	South Branch Piscataquog River near Goffstown, N. H.	B5	104	1941-60	2,300	June 25, 1944	-	4,100	39.4	8
						Mar. 20, 1948	a11.18	-	-	-
915	Piscataquog River near Goffstown, N. H.....	B5	202	1936,1938, 1940-60	3,800	Sept.21, 1938	17.52	21,900	108	*1.73
940	Souhegan River at Merrimack, N. H.....	B5	171	1910-60	3,350	Mar. 19, 1936	16.2	16,900	98.8	*1.48
945	North Nashua River near Leominster, Mass....	B5	107	1936-60	2,350	Mar. 18, 1936	20.53	16,300	152	*1.94
970	Assabet River at Maynard, Mass.....	B1	115	1942-60	920	Aug. 20, 1955	3.96	4,250	36.9	*1.31

* Ratio of peak discharge to that of 50-year flood.
a Backwater from ice.
b Backwater from fish weir.
c At site 4 miles upstream.

Table 1.--Maximum and mean annual floods at gaging stations used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Parker River basin									
1010	Parker River at Byfield, Mass.....	C1	21.6	1946-60	255	Jan. 27, 1958	5.49	479	22.2	10
	Ipswich River basin									
1015	Ipswich River at South Middleton, Mass.....	C1	43.4	1938-60	435	Jan. 27, 1958	6.49	682	15.7	6
1020	Ipswich River near Ipswich, Mass.....	C1	124	1931-60	970	Mar. 15, 1936	7.70	2,610	21.0	25
	Charles River basin									
1035	Charles River at Charles River Village, Mass.	C1	184	1936-60	1,300	Aug. 23, 1955	9.24	3,220	17.5	20
	Neponset River basin									
1050	Neponset River at Norwood, Mass.....	C1	35.2	1938,1940-60	370	Aug. 19, 1955	14.65	1,490	42.3	60
	Westport River basin									
1060	Adamsville Brook at Adamsville, R. I.....	C1	8.6	1941-60	130	Sept.20, 1960	7.135	273	31.7	13
	Taunton River basin									
1090	Wading River near Norton, Mass.....	C1	42.4	1926-60	430	Aug. 20, 1955	10.98	1,170	27.6	25
	Providence River basin									
1115	Branch River at Forestdale, R. I.....	C2	93.3	1886-1960	1,290	Mar. 19, 1936	-	5,800	62.2	80
1125	Blackstone River at Woonsocket, R. I.....	C2	416	1645-1960	5,600	Aug. 19, 1955	21.8	d32,900	79.1	*1.58
1145	Woonasquatucket River at Centerdale, R. I...	C1	38.3	1936,1942-60	390	Sept.11, 1954	7.03	1,100	28.7	27
	Pawtuxet River basin									
1160	South Branch Pawtuxet River at Washington, R. I.	C1	63.8	1936-60	590	March 1936	-	1,810	28.4	33
				1941-60		Sept.12, 1954	4.11	1,320	20.7	16
	Potowomut River basin									
1170	Potowomut River near East Greenwich, R. I...	C1	23.0	1938-60	270	Sept.21, 1938	e8.5	-	-	-
				1941-60		Aug. 31, 1954	e6.78	-	-	-
						Sept.12, 1954	-	450	19.6	8
	Pawcatuck River basin									
1175	Pawcatuck River at Wood River Junction, R. I.	C1	100	1941-60	820	Mar. 17, 1953	-	1,040	10.4	4
						Sept.13, 1954	6.23	-	-	-
1180	Wood River at Hope Valley, R. I.....	C1	72.4	1711-1960	645	February 1886	12.4	-	-	-
				1942-60		Sept.12, 1954	7.45	1,470	20.3	16
1185	Pawcatuck River at Westerly, R. I.....	C1	295	1635-1960	1,870	Sept.21, 1938	e15.0	-	-	-
				1941-60		Mar. 16, 1953	-	3,510	11.9	10
						Aug. 31, 1954	e12.16	-	-	-

				Thames River basin						
1195	Willimantic River near South Coventry, Conn.	C6	121	1932-60	2,600	Aug. 19, 1955	18.66	24,200	200	*2.50
1200	Hop River near Columbia, Conn.....	C6	76.2	1933-60	1,800	Sept.21, 1938	16.25	6,450	84.6	46
1210	Mount Hope River near Warrenville, Conn.....	C6	29.1	1938-60	860	September 1938	14.5	-	-	-
				1941-60		Aug. 19, 1955	10.41	5,590	192	*1.75
1220	Natchaug River at Willimantic, Conn.....	C6	169	1931-60	3,300	Sept.21, 1938	16.39	32,000	189	*2.60
1225	Shetucket River near Willimantic, Conn.....	C6	401	1904-6,1920, 1929-60	6,400	Sept.21, 1938	27.6	52,200	130	*2.20
1235	Quinebaug River at Westville, Mass.....	C2	93.8	1938,1940-60	1,300	Aug. 19, 1955	16.11	17,500	187	*3.63
1240	Quinebaug River at Quinebaug, Conn.....	C2	157	1932-60	2,150	Aug. 19, 1955	18.96	49,300	314	*6.15
1245	Little River at Buffumville, Mass.....	C2	27.7	1940-60	400	Aug. 19, 1955	15.53	8,340	301	*5.60
1255	Quinebaug River at Putnam, Conn.....	C2	331	1930-60	4,400	Aug. 19, 1955	26.5	48,000	145	*2.93
1265	Moosup River at Moosup, Conn.....	C2	83.5	1933-60	1,170	Mar. 12, 1936	8.35	4,260	51.0	48
1270	Quinebaug River at Jewett City, Conn.....	C2	711	1919-60	9,300	Aug. 20, 1955	29.0	40,700	57.2	73
1275	Yantic River at Yantic, Conn.....	C6	88.6	1931-60	2,000	Sept.21, 1938	14.66	13,500	152	*1.81
				Connecticut River basin						
1300	Upper Ammonoosuc River near Groveton, N. H..	B7	232	1936,1941-60	5,800	March 1936	10.6	-	-	-
						Mar. 27, 1953	-	9,950	42.9	8
1315	Connecticut River near Dalton, N. H.....	11	1,514	1928-60	24,200	Mar. 20, 1936	25.6	48,300	31.9	80
1330	East Branch Passumpsic River near East Haven, Vt.	B7	53.8	1928-60	1,910	November 1927	12.6	-	-	-
				1940-60		Apr. 18, 1960	6.28	2,200	40.9	3
1350	Moose River at St. Johnsbury, Vt.....	B7	128	1929-60	3,600	Apr. 30, 1929	8.3	5,800	45.3	6
1355	Passumpsic River at Passumpsic, Vt.....	B7	436	1928-60	9,300	November 1927	31.5	-	-	-
				1929-60		Mar. 18, 1936	21.23	16,000	36.7	9
1375	Ammonoosuc River at Bethlehem Junction, N. H.	B10	87.6	1940-60	4,000	Oct. 24, 1959	12.09	10,800	123	22
1380	Ammonoosuc River near Bath, N. H.....	B10	395	1936-60	15,500	Mar. 18, 1936	15.40	27,900	70.6	9
1390	Wells River at Wells River, Vt.....	B5	98.4	1941-60	2,200	June 2, 1952	8.12	3,230	32.8	5
1395	Connecticut River at South Newbury, Vt.....	11	2,825	1919-50	42,000	Nov. 4, 1927	-	84,500	29.9	80
						Mar. 19, 1936	38.6	-	-	-
1400	South Branch Waits River near Bradford, Vt..	B5	42.7	1940-51	1,150	Mar. 9, 1946	a4.86	-	-	-
						June 3, 1947	-	2,300	53.9	9
1415	Ompompanoosuc River at Union Village, Vt....	B5	130	1928-60	2,700	November 1927	14.5	-	-	-
				1941-60		June 3, 1947	9.65	4,800	36.9	8
1420	White River near Bethel, Vt.....	B9	241	1932-55	9,900	Sept.21, 1938	-	32,200	134	46
						Mar. 9, 1942	a13.20	-	-	-
1425	Ayers Brook at Randolph, Vt.....	B5	30.5	1928-60	900	November 1927	16	-	-	-
				1940-60		June 1, 1952	7.58	3,490	114	44
1440	White River at West Hartford, Vt.....	B9	690	1916-60	25,000	Nov. 4, 1927	29.3	120,000	174	*1.60
1445	Connecticut River at White River Junction, Vt.	11	4,092	1912-60	55,000	Nov. 4, 1927	35.0	136,000	33.2	*1.32
1450	Mascoma River at West Canaan, N. H.....	B5	80.5	1938-60	1,880	September 1938	9.6	4,310	53.5	14
1515	Ottauquechee River at North Hartland, Vt....	B9	221	1928-60	9,200	November 1927	21.5	30,400	138	48
1525	Sugar River at West Claremont, N. H.....	B5	269	1929-60	4,750	Mar. 19, 1936	-	14,000	52.0	36
						Mar. 21, 1936	a11.80	-	-	-
1530	Black River at North Springfield, Vt.....	B9	158	1930-60	6,800	Sept.22, 1938	17.68	15,500	98.1	16
1535	Williams River at Brockways Mills, Vt.....	B9	103	1938-60	4,600	September 1938	22.7	-	-	-
				1941-60		June 1, 1952	13.39	8,910	86.5	10

* Ratio of peak discharge to that of 50-year flood.
a Backwater from ice.
d Affected by failure of Horseshoe Dam on Mill River.
e Backwater from hurricane tidal wave.

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Table 1.--Maximum and mean annual floods at gaging stations used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Connecticut River basin--Continued									
1540	Saxtons River at Saxtons River, Vt.....	B9	72.2	1938-60	3,400	September 1938	17.9	-	-	-
				1941-60		Sept.12, 1960	11.57	5,610	77.7	6
1545	Connecticut River at North Walpole, N. H....	11	5,493	1936-60	71,000	Mar. 19, 1936	43.8	-	-	-
				1942-60		Mar. 27, 1953	30.37	97,000	17.7	7
1550	Cold River at Drewsville, N. H.....	B5	82.7	1941-60	1,900	Nov. 26, 1950	10.29	8,160	98.7	75
1560	West River at Newfane, Vt.....	B9	308	1920-23, 1928-60	12,100	Sept.21, 1938	22.81	52,300	170	*1.35
1565	Connecticut River at Vernon, Vt.....	11	6,266	1945-60	80,000	Mar. 19, 1936	128.8	176,000	28.1	150
1570	Ashuelot River near Gilsum, N. H.....	B5	71.1	1923-60	1,700	Mar. 19, 1936	12.80	-	-	-
						Sept.21, 1938	-	5,220	73.4	30
1585	Otter Brook near Keene, N. H.....	B5	42.3	1924-58	1,170	Sept.21, 1938	-	6,130	145	100
						May 1, 1958	(f)	-	-	-
1600	South Branch Ashuelot River at Webb, near Marlboro, N. H.	B5	36.0	1921-60	1,010	Mar. 12, 1936	a9.70	-	-	-
						Sept.21, 1938	-	5,960	166	*1.51
1620	Millers River near Winchendon, Mass.....	B4	83.0	1918-60	1,250	Sept.22, 1938	21.55	8,500	102	*1.85
1625	Priest Brook near Winchendon, Mass.....	B4	19.4	1917,1919-60	400	Sept.21, 1938	9.90	3,000	155	*1.83
1650	East Branch Tully River near Athol, Mass....	B4	50.4	1917-60	850	Sept.21, 1938	8.60	5,140	102	*1.59
1655	Moss Brook at Wendell Depot, Mass.....	B4	12.3	1917-60	275	Mar. 19, 1936	6.30	1,540	125	100
1665	Millers River at Erving, Mass.....	B4	375	1915-60	4,200	Sept.22, 1938	13.37	29,000	77.3	*2.20
1690	North River at Shattuckville, Mass.....	C9	88.4	1940-60	4,100	Oct. 15, 1955	10.37	13,200	149	37
1705	Connecticut River at Montague City, Mass....	11	7,865	1904-60	96,000	Mar. 19, 1936	49.2	236,000	30.0	*1.31
1715	Mill River at Northampton, Mass.....	C9	52.8	1939-60	2,580	Aug. 19, 1955	11.78	6,300	119	19
1735	Ware River at Gibbs Crossing, Mass.....	C4	199	1913-60	2,500	Sept.21, 1938	18.2	22,700	114	*2.44
1745	East Branch Swift River near Hardwick, Mass.	C4	43.7	1937-60	750	Sept.21, 1938	-	6,780	155	*2.43
						June 25, 1944	22.49	-	-	-
1755	Swift River at West Ware, Mass.....	C4	188	1911-60	2,400	Mar. 19, 1936	15.00	7,590	40.4	35
1760	Quaboag River at West Brimfield, Mass.....	C2	151	1913-60	2,100	Aug. 19, 1955	15.36	12,800	84.8	*1.64
1770	Chicopee River at Indian Orchard, Mass.....	C4	688	1929-60	6,750	Sept.21, 1938	-	45,200	65.7	*1.80
1795	Westfield River at Knightville, Mass.....	C9	162	1910-60	7,000	Sept.21, 1938	29.58	37,900	234	*1.46
1800	Sykes Brook at Knightville, Mass.....	C9	1.64	1946-60	120	Aug. 19, 1955	4.485	680	415	*1.52
1805	Middle Branch Westfield River at Goss Heights, Mass.	C9	52.6	1911-60	2,560	Mar. 12, 1936	a13.87	-	-	-
						Sept.21, 1938	-	19,900	378	*2.09
1810	West Branch Westfield River at Huntington, Mass.	C9	93.7	1936-60	4,300	Aug. 19, 1955	15.27	26,100	279	*1.63
1835	Westfield River near Westfield, Mass.....	C9	497	1915-60	18,500	Aug. 19, 1955	34.2	70,300	141	53
1840	Connecticut River at Thompsonville, Conn....	11	9,661	1929-60	115,000	Mar. 20, 1936	16.6	282,000	29.2	*1.31
1845	Scantic River at Broad Brook, Conn.....	C2	98.4	1929-56	1,380	Aug. 19, 1955	19.9	13,300	135	*2.60
1870	West Branch Farmington River at Riverton, Conn.	C9	216	1930-55	9,000	Aug. 19, 1955	20.3	101,000	468	*3.01
1880	Burlington Brook near Burlington, Conn.....	C9	4.12	1932-60	270	Aug. 19, 1955	9.22	1,690	410	*1.68
1890	Pequabuck River at Forestville, Conn.....	C9	45.2	1938,1942-60	2,280	Aug. 19, 1955	13.22	11,700	259	*1.38
1905	South Branch Park River at Hartford, Conn...	C9	40.6	1936-60	2,020	Aug. 19, 1955	19.65	5,000	123	20
1910	North Branch Park River at Hartford, Conn...	C9	25.3	1936-60	1,340	Aug. 19, 1955	18.8	10,000	395	*2.00

1915	Park River at Hartford, Conn.....	C9	74.0	1937-60	3,500	Aug. 19, 1955	16.36	14,000	189	60
1925	Hockanum River near East Hartford, Conn.....	C2	74.5	1920-21, 1929-60	1,050	Sept.21, 1938	13.78	5,160	69.3	100
1935	Salmon River near East Hampton, Conn.....	C6	105	1929-60	2,300	Sept.21, 1938	10.96	12,400	118	*1.45
1940	Eightmile River at North Plain, Conn.....	C6	18.6	1938-60	620	Oct. 15, 1955	7.72	2,350	126	52
1945	East Branch Eightmile River near North Lyme, Conn.	C6	22.0	1938-60	700	Sept.21, 1938	7.00	2,950	34	68
	Menunketesuck River basin									
1950	Menunketesuck River near Clinton, Conn.....	C6	11.6	1942-60	430	Sept.11, 1954	8.51	1,500	129	44
	Quinnipiac River basin									
1965	Quinnipiac River at Wallingford, Conn.....	C2	109	1931-60	1,500	Sept.21, 1938	9.55	5,230	48.0	44
	Housatonic River basin									
1970	East Branch Housatonic River at Coltsville, Mass.	C9	57.1	1755-1960	2,750	Sept.21, 1938	10.80	6,400	112	17
1975	Housatonic River near Great Barrington, Mass.	C2	280	1914-60	3,800	Jan. 1, 1949	12.08	12,200	43.6	37
1990	Housatonic River at Falls Village, Conn.....	C2	632	1913-60	8,300	Jan. 1, 1949	22.9	23,900	37.8	29
2000	Tenmile River near Gaylordsville, Conn.....	C2	204	1930-60	2,800	Aug. 19, 1955	14.9	17,400	85.3	*1.67
2005	Housatonic River at Gaylordsville, Conn.....	C2	994	1854,1901-14, 1924,1928-60	13,000	Aug. 19, 1955	18.58	51,800	52.1	58
2015	Still River near Lanesville, Conn.....	C2	68.5	1932-60	960	Oct. 16, 1955	14.11	7,980	116	*2.24
2030	Shepaug River near Roxbury, Conn.....	C9	133	1931-60	5,800	Aug. 19, 1955	17.2	50,300	378	*2.34
2040	Pomperaug River at Southbury, Conn.....	C9	75.3	1933-60	3,500	Aug. 19, 1955	21.8	29,400	390	*2.26
2055	Housatonic River at Stevenson, Conn.....	C2	1,545	1929-60	19,700	Oct. 16, 1955	24.5	75,800	49.1	54
2060	Naugatuck River near Thomaston, Conn.....	C9	71.9	1931-59	3,400	Aug. 19, 1955	24.0	41,600	579	*3.28
2065	Leadmine Brook near Thomaston, Conn.....	C9	24.0	1931-59	1,300	Aug. 19, 1955	13.1	10,400	433	*2.15
2085	Naugatuck River at Beacon Falls, Conn.....	C9	261	1920-24, 1927,1929-60	10,700	Aug. 19, 1955	25.7	106,000	406	*2.67

* Ratio of peak discharge to that of 50-year flood.
a Backwater from ice.
f Maximum for period of record caused by backwater from Otter Brook Reservoir; stage not determined.

Table 2.--Maximum floods at gaging stations not used to define regional flood-frequency relations

No.	Gaging station	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood			
				Date	Gage height (feet)	Discharge	
						Cfs	Cfs per sq mi
	St. John River basin						
100	St. John River at Ninemile Bridge, Maine	1,290	1951-60	Apr. 25, 1958	10.97	34,200	26.5
105	St. John River at Dickey, Maine	2,700	1947-60	Apr. 25, 1958	-	71,200	26.4
				Mar. 29, 1953	a19.88	-	-
115	St. Francis River at outlet of Glazier Lake, near Connors, New Brunswick.	520	1952-60	Apr. 26, 1958	13.21	10,800	20.8
125	St. John River at Fort Kent, Maine	4,790	1906-15	May 13, 1909	19.7	76,700	16.0
165	Machias River near Ashland, Maine	330	1952-60	June 29, 1954	11.94	16,600	50.3
175	Aroostook River at Fort Fairfield, Maine	2,230	1904,1906-10	May 1, 1907	15.05	34,500	15.5
	St. Croix River basin						
185	St. Croix River at Vanceboro, Maine	417	1929-60	Nov. 30, 1959	-	4,830	11.6
190	Grand Lake Stream at Grand Lake Stream, Maine	224	1929-60	June 12, 1952	6.35	2,840	12.7
200	St. Croix River near Baileyville, Maine	1,320	1920-60	May 1, 1923	13.90	23,300	17.7
	Machias River basin						
215	Machias River at Whitneyville, Maine	457	1906-21, 1930-60	Nov. 28, 1950	-	11,800	25.8
				Mar. 14, 1936	a16.18	-	-
220	East Machias River near East Machias, Maine	251	1927-59	Dec. 15, 1950	9.05	3,660	14.6
	Narraguagus River basin						
225	Narraguagus River at Cherryfield, Maine	232	1949-60	Nov. 28, 1950	15.81	7,250	31.2
	Penobscot River basin						
280	West Branch Penobscot River near Medway, Maine	2,120	1917-39	June 16, 1917	9.88	25,900	12.2
295	East Branch Penobscot River at Grindstone, Maine	1,070	1903-60	Apr. 30, 1923	16.9	37,000	34.6
300	Penobscot River near Mattawamkeag, Maine	3,310	1941-60	May 21, 1945	11.09	40,200	12.1
310	Mattawamkeag River at Mattawamkeag, Maine	1,500	1903-34	May 1, 1923	19.60	48,900	32.6
330	Sebec River at Sebec, Maine	327	1925-60	Mar. 20, 1936	14.46	11,400	34.9
340	Piscataquis River at Medford, Maine	1,161	1923-60	May 1, 1923	20.8	-	-
			1925-60	Mar. 20, 1936	15.07	50,200	43.2
345	Penobscot River at West Enfield, Maine	6,600	1902-60	May 1, 1923	25.15	153,000	23.2
350	Passadumkeag River at Lowell, Maine	299	1916-60	May 2, 1923	9.40	5,680	19.0
360	Penobscot River at Passadumkeag, Maine	7,000	1939-58	Apr. 14, 1940	13.62	126,000	18.0
370	Kenduskeag Stream near Bangor, Maine	195	1909-19	Apr. 15, 1909	10.45	6,300	32.3
	Kennebec River basin						
390	Moose River near Rockwood, Maine	708	1903-8, 1911-12, 1920-25	May 1, 1923	9.58	12,200	17.2
410	Kennebec River at Moosehead, Maine	1,240	1920-60	May 8, 1947	9.94	15,600	12.6
425	Kennebec River at The Forks, Maine	1,570	1902-60	June 18, 1917	10.1	23,700	15.1
435	Dead River near Dead River, Maine	520	1940-60	Sept.12, 1954	11.50	18,000	34.6

465	Kennebec River at Bingham, Maine	2,710	1908-10, 1931-60	Mar. 20, 1936	14.44	58,800	21.7
475	Sandy River near Farmington, Maine	242	1911-15	Nov. 10, 1913	10.8	8,800	36.4
485	Kennebec River at Waterville, Maine	4,270	1893-1950	Dec. 16, 1901	135.15	157,000	36.8
490	Sebasticook River near Pittsfield, Maine	579	1929-60	Mar. 22, 1936	13.18	14,400	24.9
495	Cobbosseecontee Stream at Gardiner, Maine	217	1891-1960	Mar. 21, 1936	139.4	5,020	23.1
	Androscoggin River basin						
535	Androscoggin River at Errol, N. H.	1,045	1906-60	June 18, 1943	-	b15,700	15.0
538	Androscoggin River at Berlin, N. H.	1,350	1913-28	June 18, 1917, Apr. 30, 1923	-	b20,000	14.8
540	Androscoggin River near Gorham, N. H.	1,363	1914-60	June 18, 1917, Apr. 30, 1923	-	b20,000	14.7
545	Androscoggin River at Rumford, Maine	2,067	1893-1960	Mar. 20, 1936	-	74,000	35.8
585	Little Androscoggin River near Auburn, Maine	328	1936-60	Mar. 20, 1936	-	16,800	51.2
590	Androscoggin River near Auburn, Maine	3,257	1929-60	Mar. 20, 1936	27.57	135,000	41.4
	Royal River basin						
600	Royal River at Yarmouth, Maine	142	1950-60	Sept.12, 1954	7.12	7,960	56.1
	Presumpscot River basin						
640	Presumpscot River at outlet of Sebago Lake, Maine	436	1887-1960	Apr. 7, 1902	-	b7,000	16.1
	Saco River basin						
670	Saco River at West Buxton, Maine	1,572	1908-16, 1920-40	Mar. 22, 1936	-	58,200	37.0
675	Saco River at Salmon Falls, Maine	1,595	1936-48	Mar. 22, 1936	30.2	59,000	37.0
	Mousam River basin						
695	Mousam River near West Kennebunk, Maine	105	1940-60	Sept.12, 1954	5.69	2,830	27.0
	Piscataqua River basin						
725	Salmon Falls River near South Lebanon, Maine	147	1929-60	Mar. 19, 1936	12.31	5,490	37.3
	Merrimack River basin						
770	Squam River at Ashland, N. H.	57.6	1940-60	Apr. 11, 1951	11.93	498	8.6
805	Lake Winnipesaukee Outlet at Lakeport, N. H.	363	1934-60	Mar. 31, 1936	-	b2,890	8.0
810	Winnipesaukee River at Tilton, N. H.	471	1937-60	Sept.21, 1938	-	3,810	8.1
				Mar. 27, 1953	7.93	-	-
815	Merrimack River at Franklin Junction, N. H.	1,507	1904-60	Mar. 19, 1936	36.4	83,000	55.1
835	Contoocook River near Elmwood, N. H.	168	1918-24	Apr. 8, 1924	-	4,720	28.1
				Mar. 10, 1921	12.2	-	-
885	Merrimack River at Garvins Falls, N. H.	2,427	1905-60	Mar. 20, 1936	-	122,000	50.3
890	Soucook River near Concord, N. H.	76.8	1952-60	Apr. 6, 1960	13.34	2,880	37.5
905	Merrimack River at Manchester, N. H.	2,854	1925-50	Mar. 20, 1936	17.1	144,000	50.5
920	Merrimack River near Goffs Falls, below Manchester, N. H.	3,092	1936-60	Mar. 20, 1936	35.19	150,000	48.5
930	Sucker Brook at Auburn, N. H.	27.8	1938-60	Sept.12, 1954	2.55	602	21.7
950	Rocky Brook near Sterling, Mass	2.28	1947-60	July 20, 1959	4.74	470	206
960	Squannacook River near West Groton, Mass	62.8	1950-60	Oct. 16, 1955	8.04	4,010	63.9

a Backwater from ice.
b Maximum daily discharge.

Table 2.--Maximum floods at gaging stations not used to define regional flood-frequency relations--Continued

No.	Gaging station	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood			
				Date	Gage height (feet)	Discharge	
						Cfs	Cfs per sq mi
	Merrimack River basin--Continued						
965	Nashua River at East Pepperell, Mass	433	1936-60	Mar. 20, 1936	19.1	20,900	-
990	Concord River at Lowell, Mass	381	1901-16	Mar. 3, 1902	-	b4,148	-
995	Concord River below River Meadow Brook, at Lowell, Mass	405	1937-60	Aug. 23, 1955	8.97	4,540	-
1000	Merrimack River below Concord River, at Lowell, Mass	4,635	1924-60	Mar. 20, 1936	68.4	173,000	37.3
1005	Merrimack River at Lawrence, Mass	4,672	1852-1950	Mar. 20, 1936	48.0	174,000	37.2
	Mystic River basin						
1025	Aberjona River at Winchester, Mass	23.3	1940-60	Aug. 19, 1955	-	835	35.8
				Aug. 20, 1955	c13.72	-	-
	Charles River basin						
1040	Mother Brook at Dedham, Mass	-	1932-60	Aug. 24, 1955	92.90	970	-
1045	Charles River at Waltham, Mass	227	1932-60	Mar. 19, 1936	-	2,540	-
				Apr. 19, 1955	5.35	-	-
	Neponset River basin						
1055	East Branch Neponset River at Canton, Mass	26.7	1953-60	Aug. 19, 1955	8.18	1,790	67.0
	Taunton River basin						
1075	Taunton River at Titicut, near Bridgewater, Mass	185	1920-25	Mar. 19, 1920	15.5	5,150	27.8
1080	Taunton River at State Farm, Mass	260	1930-60	Aug. 21, 1955	13.02	4,010	15.4
	Providence River basin						
1095	Kettle Brook at Worcester, Mass	31.3	1924-60	Aug. 19, 1955	12.78	3,970	127
1100	Quinsigamond River at North Grafton, Mass	25.5	1940-60	Aug. 20, 1955	5.15	820	32.2
1105	Blackstone River at Northbridge, Mass	139	1940-60	Aug. 20, 1955	d17.53	16,900	122
1110	Mumford River at East Douglas, Mass	27.8	1940-55	Aug. 19, 1955	12.0	2,140	77.0
	Pawtuxet River basin						
1155	Pawtuxet River at Fiskeville, R. I	102	1916-25	Apr. 7, 1924	3.23	3,330	1,031
1165	Pawtuxet River at Cranston, R. I	200	1940-60	Nov. 6, 1955	9.10	2,090	10.4
	Thames River basin						
1205	Safford Brook near Woodstock Valley, Conn	4.08	1951-60	Aug. 19, 1955	6.68	1,000	245
1230	Little River near Hanover, Conn	29.8	1952-60	Aug. 19, 1955	6.48	1,400	47.0
1250	French River at Webster, Mass	85.3	1949-60	Aug. 19, 1955	26.05	14,400	169
1260	Five Mile River at Killingly, Conn	58.2	1938-60	July 24, 1938	8.52	2,480	42.6
	Connecticut River basin						
1285	Connecticut River at First Connecticut Lake, near Pittsburg, N. H.	83.0	1918-60	June 16, 1943	-	7,200	86.7
				May 5, 1925	e6.35	-	-

1295	Connecticut River at North Stratford, N. H.	799	1931-60	June 16, 1943	-	28,700	35.9
				Mar. 13, 1936	a16.66	-	-
1335	Passumpsic River at Pierce's Mills, near St. Johnsbury, Vt.	237	1910-19	Mar. 27, 1913	14.8	7,070	29.8
1345	Moose River at Victory, Vt.	75.2	1948-60	Apr. 21, 1950	10.89	2,940	39.1
1360	Stevens River at West Barnet, Vt.	22.2	1940-45	Apr. 26, 1945	-	381	17.2
				Mar. 8, 1943	a3.80	-	-
1385	Connecticut River at Wells River, Vt.	2,644	1950-60	Mar. 27, 1953	15.96	54,000	20.4
1405	Connecticut River at Orford, N. H.	3,100	1901-21	Mar. 28, 1913	33.4	57,300	18.5
1505	Mascoma River at Mascoma, N. H.	153	1924-60	Mar. 19, 1936	7.50	5,480	35.8
1555	West River at Jamaica, Vt.	179	1947-60	Dec. 31, 1948	14.87	29,500	165
1580	Ashuelot River below Surry Mountain Dam, near Keene, N. H.	101	1946-60	Oct. 28, 1959	9.60	1,320	13.1
1610	Ashuelot River at Hinsdale, N. H.	420	1907-11, 1915-60	Mar. 19, 1936	f20.2	16,600	39.5
1615	Tarbell Brook near Winchendon, Mass.	18.2	1917-60	Sept.21, 1938	13.72	2,630	145
1640	Millers River at South Royalston, Mass.	187	1938-60	Sept.21, 1938	15.9	-	-
			1940-60	Jan. 24, 1959	a9.42	-	-
				Aug. 13, 1940	-	4,400	23.5
1670	Connecticut River at Turners Falls, Mass.	7,163	1915-60	Mar. 19, 1936	16.7	210,000	29.3
1685	Deerfield River at Charlemont, Mass.	362	1932-60	Sept.21, 1938	20.17	56,300	156
1695	Deerfield River at Shelburne Falls, Mass.	500	1908-15	Apr. 15, 1909	-	21,300	42.6
1700	Deerfield River near West Deerfield, Mass.	558	1941-60	Dec. 31, 1948	15.43	48,500	86.9
1720	Connecticut River at Holyoke, Mass.	8,309	1881-1938	Mar. 19, 1936	16.8	244,000	29.4
1725	Ware River near Barre, Mass.	55.0	1947-60	Oct. 15, 1955	6.31	1,890	34.4
1730	Ware River at Coldbrook, Mass.	96.8	1929-60	Sept.21, 1938	664.28	14,000	145
1740	Hop Brook near New Salem, Mass.	3.39	1948-60	Oct. 24, 1959	3.17	289	85.2
1780	Mill River at Springfield, Mass.	33.9	1939-60	Aug. 19, 1955	12.02	1,960	57.8
1785	Westfield River at West Chesterfield, Mass.	111	1947-51	Dec. 31, 1948	11.93	16,000	144
1820	Borden Brook near Westfield, Mass.	8	1910-18	Mar. 4, 1918	-	b309	38.6
1855	West Branch Farmington River near New Boston, Mass.	92.0	1914-60	Aug. 19, 1955	14.06	34,300	373
1865	Still River at Robertsville, Conn.	84.4	1949-60	Aug. 19, 1955	16.48	44,000	521
1895	Salmon Brook near Granby, Conn.	66.8	1947-60	Aug. 19, 1955	23.58	40,000	599
1900	Farmington River at Rainbow, Conn.	591	1929-60	Aug. 19, 1955	23.5	69,200	117
	Connecticut River at Hartford, Conn.	10,480	1640-1960	Mar. 20, 1936	37.6	313,000	29.9
	Housatonic River basin						
1980	Green River near Great Barrington, Mass.	52.5	1952-60	Mar. 31, 1960	7.83	2,120	40.0
1985	Blackberry River at Canaan, Conn.	48.2	1950-60	Aug. 19, 1955	13.01	14,200	295
2025	Shepaug River at Woodville, Conn.	38.0	1936-60	Aug. 19, 1955	-	13,800	363
	Saugatuck River basin						
2095	Saugatuck River near Westport, Conn.	77.5	1933-60	Oct. 16, 1955	15.93	14,800	191

a Backwater from ice.
b Maximum daily discharge.
c Backwater from Mystic Lake.
d Backwater from debris.
e Backwater from logging operations.
f Backwater from Connecticut River.

Table 3.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations

No.	Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal $Q_{2.33}$ (cfs)	Maximum flood			
		Latitude	Longitude				Date	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	St. John River basin									
1	St. Francis River near St. Francis, Maine....	47°11'15"	68°55'10"	A8	560	7,400	May 9, 1911	a12,000	21.4	11
2	Aroostook River near Masardis, Maine.....	46°31'20"	68°22'25"	A8	888	11,500	Apr. 25, 1958	21,500	24.2	25
							Dec. 23, 1957	(b)	-	-
	Merrimack River basin									
3	Hancock Branch near Lincoln, N. H.....	44°03'10"	71°34'30"	B10	17.2	960	Oct. 24, 1959	5,600	326	*1.40
4	Hubbard Brook at West Thornton, N. H.....	43°56'30"	71°42'25"	B10	11.5	680	Oct. 24, 1959	4,700	409	*1.62
5	Pemigewasset River at Livermore, N. H.....	43°47'	71°40'	B10	406	16,000	Mar. 19, 1936	54,000	133	60
6	Pemigewasset River at Ayers Island, near Bristol, N. H.	43°35'	71°43'	B10	746	27,000	Mar. 19, 1936	71,400	95.7	35
7	Smith River at Danbury Novelty Co. Dam, near Elmwood, N. H.	43°31'	71°49'	B5	64.7	1,630	Mar. 19, 1936	6,070	93.8	46
8	Pemigewasset River at Eastman Falls, at Franklin, N. H.	43°27'	71°40'	-	1,000	-	Sept.22, 1938	54,400	54.4	-
9	Contoocook River near East Jaffrey, N. H.....	42°48'	72°00'	B4	36.1	660	Sept.21, 1938	3,560	98.6	100
10	Contoocook River near Hadley, N. H.....	42°49'	71°59'	B4	36.9	660	Sept.21, 1938	3,390	91.9	90
11	Nubanusit Brook at West Peterboro, N. H.....	42°53'	71°59'	B4	45.2	780	Mar. 19, 1936	4,140	91.6	*1.38
12	Contoocook River at North Village, N. H.....	42°53'	71°56'	B4	124	1,750	Sept.21, 1938	10,400	83.9	*1.68
13	North Branch Contoocook River near Hillsboro, N. H.	43°06'	71°56'	B5	63.9	1,600	Mar. 20, 1936	8,300	130	*1.38
14	Contoocook River near West Hopkinton, N. H...	43°11'	71°45'	B5	416	6,600	Mar. 19, 1936	25,200	60.6	100
15	Warner River at Bradford, N. H.....	43°16'	71°57'	B5	19.7	640	Mar. 18, 1936	2,370	120	37
16	Souhegan River at Greenville, N. H.....	42°45'	71°49'	B5	29.9	880	Mar. 18, 1936	6,160	206	*1.76
17	Stony Brook at Wilton, N. H.....	42°50'	71°45'	B5	33.2	960	Mar. 18, 1936	5,780	174	*1.53
18	Round Meadow Pond at Westminster, Mass.....	42°32'	71°53'	B5	4.6	-	Sept.21, 1938	580	126	-
	Taunton River basin									
19	Wading River at West Mansfield, Mass.....	42°00'00"	71°15'38"	C1	19.2	240	Aug. 20, 1955	c519	27.0	14
	Providence River basin									
20	Blackstone River at Tupper Mill Dam, at Blackstone, Mass.	42°00'54"	71°33'15"	-	259	-	Aug. 19, 1955	18,800	72.6	-
	Thames River basin									
21	Crystal Lake Brook at West Stafford, Conn....	41°57'50"	72°21'50"	C6	5.83	-	Aug. 19, 1955	784	134	-
22	Square Pond Brook at West Stafford, Conn.....	41°58'	72°21'	C6	6.5	-	September 1938	470	72.3	-
23	Middle River at Ellithorpe, Conn.....	42°00'	72°20'	C6	11.4	420	September 1938	1,230	108	30
24	Furnace Brook at Stafford, Conn.....	41°58'	72°17'	C6	14.4	510	September 1938	2,290	159	78
25	Furnace Brook at Stafford Springs, Conn.....	41°57'	72°18'	C6	16.8	570	September 1938	2,110	126	50
26	Willimantic River at Stafford Springs, Conn..	41°56'34"	72°18'21"	C6	53.5	1,400	Aug. 19, 1955	14,500	271	*2.80
27	Roaring Brook near West Willington, Conn.....	41°54'39"	72°16'15"	C6	18.0	600	Aug. 19, 1955	2,920	162	96
28	Willimantic River at Eagleville, Conn.....	41°47'	72°17'	C6	110	2,400	September 1938	12,900	117	*1.45
29	Willimantic River at Willimantic, Conn.....	41°43'	72°13'	C6	224	4,200	Sept.21, 1938	21,000	93.8	*1.34

30	Mount Hope River above Warrenville, Conn.....	41°53'	72°10'	C6	6.3	-	September 1938	860	137	-
31	Fenton River at Gurleyville, Conn.....	41°49'	72°14'	C6	25.1	790	Sept.21, 1938	2,580	103	38
32	Natchaug River below Mansfield Hollow, Conn..	41°45'	72°11'	C6	161	3,200	Sept.21, 1938	25,300	-	*2.12
33	Shetucket River at Scotland Station, Conn....	41°38'	72°06'	C6	418	6,600	Sept.21, 1938	54,100	129	*2.20
34	Shetucket River at Baltic, Conn.....	41°37'	72°05'	C6	445	7,000	Sept.21, 1938	58,400	131	*2.24
35	Little River at Versailles, Conn.....	41°36'	71°02'	C6	45.3	1,220	Sept.21, 1938	2,800	61.8	17
36	Wales Brook near Wales, Mass.....	42°04'50"	72°12'05"	C2	3.71	-	Aug. 19, 1955	1,080	291	-
37	Hamilton Reservoir Outlet near Fiskdale, Mass.	42°04'44"	72°09'16"	C2	24.2	-	Aug. 19, 1955	6,540	270	-
38	Quinebaug River at Fiskdale, Mass.....	42°06'31"	72°07'26"	C2	67.5	950	Aug. 19, 1955	15,400	228	*4.35
39	Upper Sibley Pond Outlet at Charlton City, Mass.	42°08'54"	72°00'36"	C2	2.23	-	Aug. 19, 1955	1,240	556	-
40	Cady Brook at Southbridge, Mass.....	42°05'28"	72°01'19"	C2	12.0	-	Aug. 19, 1955	26,300	2,190	-
41	Cohasset Brook at Southbridge, Mass.....	42°03'39"	72°02'49"	C2	2.87	-	Aug. 19, 1955	1,280	446	-
42	Lebanon Brook at Southbridge, Mass.....	42°03'51"	72°00'43"	C2	10.0	-	Aug. 19, 1955	1,140	114	-
43	Alder Meadow Brook near Spencer, Mass.....	42°12'58"	71°57'28"	C2	2.18	-	Aug. 19, 1955	1,530	702	-
44	French River at Rochdale, Mass.....	42°11'	71°53'	C2	19.3	-	March 1936	1,480	76.7	-
45	French River at North Oxford, Mass.....	42°09'19"	71°53'05"	C2	24.1	-	Aug. 19, 1955	8,540	354	-
46	South Fork Little River at South Charlton, Mass.	42°06'17"	71°55'46"	-	7.97	-	Aug. 19, 1955	2,060	258	-
47	French River at North Grosvenordale, Conn....	41°59'	71°54'	C2	98.5	1,400	Mar. 19, 1936	5,990	60.8	70
48	Muddy Brook at Harrisville, Conn.....	41°55'	71°56'	C2	36.4	530	Mar. 19, 1936	2,920	80.2	*1.48
49	Quinebaug River at Williamsville, Conn.....	41°50'	71°55'	C2	377	5,000	Mar. 19, 1936	21,400	56.8	70
50	Five Mile River at Danielson, Conn.....	41°48'	71°52'	C2	77.6	1,100	Mar. 12, 1936	1,990	25.6	9
51	Quinebaug River at Dyer Dam, Conn.....	41°46'55"	71°54'00"	-	465	-	Aug. 19, 1955	43,900	94.4	-
52	Pachaug River at Jewett City, Conn.....	41°36'	71°58'	C2	59.0	840	Sept.21, 1938	2,240	38.0	24
53	Quinebaug River at Taftville, Conn.....	41°33'03"	72°02'30"	-	743	-	Aug. 20, 1955	40,700	54.8	-
54	Shetucket River at Greenville, Conn.....	41°32'	72°03'	C6	1,260	-	Sept.21, 1938	77,700	61.7	-
55	Yantic River at Fitchville, Conn.....	41°34'	72°09'	C6	69.1	1,700	September 1938	9,700	140	*1.53
56	Yantic River at Norwichtown, Conn.....	41°32'	72°05'	C6	96.9	2,180	September 1938	17,000	175	*2.10
		Connecticut River basin								
57	Connecticut River below Indian Stream, near Pittsburg, N. H.	45°02'25"	71°26'35"	B7	254	6,300	Nov. 29, 1959	d4,580	18.0	1
58	Israel River at Lancaster, N. H.....	44°29'	71°33'	B7	124	3,600	November 1927	8,840	71.3	19
59	Johns River at Whitefield, N. H.....	44°23'	71°35'	B7	34.6	-	March 1936	1,540	44.5	-
60	Connecticut River at McIndoes Falls, Vt.....	44°16'	72°02'	11	2,200	33,500	Mar. 20, 1936	68,000	30.9	-
61	Ammonoosuc River at Littleton, N. H.....	44°18'	71°46'	B10	124	5,600	November 1927	16,600	134	33
62	East Orange Branch at East Orange, Vt.....	44°05'35"	72°20'10"	B5	8.95	-	Oct. 24, 1959	e412	46.0	-
63	Waits River at Bradford, Vt.....	43°58'	72°09'	B5	162	3,220	November 1927	10,500	64.8	43
64	White River at Stockbridge, Vt.....	43°46'	72°46'	B9	143	6,300	Sept.21, 1938	12,500	87.4	10
65	West Branch Tweed River near Pittsfield, Vt..	43°46'	72°51'	B9	17.0	960	Sept.21, 1938	5,660	333	*1.42
66	Tweed River near Stockbridge, Vt.....	43°46'	72°48'	B9	50.1	2,500	Sept.21, 1938	6,860	137	20
67	Stony Brook near Gaysville, Vt.....	43°45'	72°43'	B9	24.1	1,300	Sept.21, 1938	4,640	193	34
68	Third Branch of White River above Randolph, Vt.	43°54'	72°39'	B5	54.6	1,400	Sept.21, 1938	9,720	178	*1.82

* Ratio of peak discharge to that of 50-year flood.
a Gage height, 540 ft.
b Gage height, 16.44 ft (ice jam).
c Gage height, 6.22 ft.
d Gage height, 7.07 ft.
e Maximum gage height, 6.35 ft Jan. 22, 1959 (ice jam).

Table 3.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

No.	Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
		Latitude	Longitude				Date	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Connecticut River basin--Continued									
69	White River below Bethel, Vt.....	43°49'	72°36'	B9	411	16,000	Sept.21, 1938	39,600	96.4	25
70	Second Branch of White River at East Bethel, Vt.	43°52'	72°34'	B5	63.8	1,580	March 1936	3,030	47.5	8
71	First Branch of White River at South Royalton, Vt.	43°50'	72°30'	B5	114	2,500	March 1936	4,990	43.8	10
72	Mascoma River at West Lebanon, N. H.....	43°37'	72°17'	B5	193	3,700	March 1936	6,600	34.2	8
73	Ottauquechee River above Bridgewater, Vt.....	43°34'	72°38'	B9	99.7	4,500	Sept.21, 1938	18,100	182	70
74	Ottauquechee River at Taftsville, Vt.....	43°37'	72°27'	B9	190	8,100	November 1927	25,400	134	41
75	Ottauquechee River at Deweys Mills, Vt.....	43°39'	72°25'	B9	208	8,800	November 1927	27,200	131	40
76	Black River at Perkinsville, Vt.....	43°22'	72°31'	B9	116	5,200	September 1938	13,400	116	22
77	Great Brook above North Springfield, Vt.....	43°19'	72°33'	B9	11.3	660	Sept.21, 1938	2,450	217	6
78	Black River at Springfield, Vt.....	43°17'	72°29'	B9	191	8,100	Sept.22, 1938	16,800	88.0	12
79	Williams River above Chester, Vt.....	43°17'	72°36'	B9	23.5	1,270	Sept.21, 1938	8,690	370	*1.68
80	Middle Branch of Williams River above Simonsville, Vt.	43°15'	72°44'	B9	3.4	-	Sept.21, 1938	3,050	897	-
81	Middle Branch of Williams River above Chester, Vt.	43°15'	72°40'	B9	27.4	1,450	Sept.21, 1938	12,200	445	*2.10
82	Cold River at outlet of Vilas Pond, above Alstead, N. H.	43°10'	72°22'	B5	60.3	1,520	Sept.21, 1938	5,300	87.9	38
83	West River near South Londonderry, Vt.....	43°11'	72°49'	B9	89.3	4,100	Sept.21, 1938	25,200	282	*1.69
84	Winhall River above Rawsonville, Vt.....	43°08'	72°51'	B9	32.0	1,680	Sept.21, 1938	10,400	325	*1.56
85	Whetstone Brook at East Jamaica, Vt.....	43°04'	72°45'	B9	36.2	1,880	Sept.21, 1938	15,500	428	*2.10
86	Rock River at Williamsville, Vt.....	42°55'	72°42'	B9	42.6	2,150	Sept.21, 1938	27,200	638	*3.27
87	West River at West Dummerston, Vt.....	42°56'	72°37'	B9	410	16,000	Sept.21, 1938	65,000	159	*1.30
88	Pratt Brook at Chesham, N. H.....	42°55'40"	72°09'10"	B5	11.2	420	Mar. 10, 1921	f1,000	89.3	12
89	Pew Brook near Gardner, Mass.....	42°33'	72°00'	C4	8.9	-	Sept.21, 1938	1,280	144	-
90	Otter River at Baldwinville, Mass.....	42°36'	72°05'	C4	43.6	760	Sept.21, 1938	11,600	266	*4.12
91	Millers River at Millers Falls, Mass.....	42°34'	72°29'	C4	386	4,300	Sept.22, 1938	32,100	83.2	*2.01
92	Falls River at Bernardstown, Mass.....	42°39'	72°32'	C9	27.3	1,450	Sept.21, 1938	2,550	93.4	8
93	East Branch of Deerfield River near Somerset, Vt.	42°57'	72°57'	-	30.0	-	Sept.21, 1938	7,500	250	-
94	Pelham Brook at Rowe, Mass.....	42°41'	72°53'	C9	4.4	-	Sept.21, 1938	1,580	359	-
95	Tannery Pond at CCC dam, near Savoy, Mass....	42°37'	73°00'	C9	1.5	-	Sept.21, 1938	725	483	-
96	Cold River above Black Brook, near Charlemont, Mass.	42°37'	72°59'	C9	23.4	1,280	Sept.21, 1938	14,600	624	*3.07
97	Cold River below Black Brook, near Charlemont, Mass.	42°38'	72°57'	C9	30.1	1,600	Sept.21, 1938	16,900	561	*2.85
98	Unnamed tributary of Chickley River near West Hawley, Mass.	42°35'	72°55'	C9	6.2	-	Sept.21, 1938	3,660	590	-
99	Chickley River near West Hawley, Mass.....	42°36'	72°55'	C9	25.1	1,350	Sept.21, 1938	17,800	709	*3.55
100	Mill Brook at dam, near Charlemont, Mass.....	42°37'	72°51'	C9	11.3	660	Sept.21, 1938	5,460	483	*2.22
101	Clark Brook near Shelburne Falls, Mass.....	42°36'	72°45'	C9	2.9	-	Sept.21, 1938	1,600	552	-

102	East Branch of North River at Foundry Village, Mass.	42°40'	72°42'	C9	51.3	2,500	Sept.21, 1938	19,800	386	*2.13
103	West Branch of North River near Adamsville, Mass.	42°41'	72°45'	C9	19.8	1,090	Sept.21, 1938	7,200	364	*1.78
104	Glen Brook near Greenfield, Mass.....	42°39'	72°37'	C9	5.2	-	Sept.21, 1938	1,800	346	-
105	Green River near Greenfield, Mass.....	42°38'	72°37'	C9	51.8	2,550	Sept.21, 1938	13,400	259	*1.41
106	Mill Brook at Greenfield, Mass.....	42°36'	72°36'	C9	11.2	660	Sept.21, 1938	1,090	97.3	7
107	Cranberry Pond at outlet, near Montague, Mass.	42°29'	72°32'	C4	2.4	-	Sept.21, 1938	300	125	-
108	Putter Pond at North Amherst, Mass.....	42°27'	72°32'	C4	16.1	340	Sept.21, 1938	1,230	76.4	48
109	Fort River at Mill Valley, near Amherst, Mass.	42°21'	72°31'	C4	41.3	730	March 1936	2,360	57.1	37
110	Mill River at Haydenville, Mass.....	42°22'	72°41'	C9	29.8	1,550	Sept.21, 1938	7,330	246	90
111	Manhan River near Westhampton, Mass.....	42°15'17"	72°47'15"	-	4.41	-	Aug. 19, 1955	1,080	245	-
112	Manhan River at Russellville, Mass.....	42°12'14"	72°46'13"	C9	15.1	860	Aug. 19, 1955	9,350	619	*2.93
113	Manhan River at Southampton, Mass.....	42°13'	72°43'	C9	27.6	1,460	Sept.21, 1938	2,870	104	11
114	Bachelor Brook at South Hadley, Mass.....	42°16'12"	72°35'14"	C4	31.1	580	Aug. 19, 1955	5,320	171	*2.46
115	Stony Brook at South Hadley, Mass.....	42°14'55"	72°34'48"	C4	19.2	400	Aug. 19, 1955	1,920	100	92
116	Ware River at South Barre, Mass.....	42°22'	72°06'	C4	104	1,500	Sept.21, 1938	13,800	133	*2.47
117	Ware River near Ware, Mass.....	42°14'29"	72°15'59"	C4	191	2,500	Aug. 19, 1955	9,530	49.9	53
118	Ware River at Wipples, Mass.....	42°12'	72°19'	C4	216	2,700	September 1938	23,100	107	*2.30
119	Fivemile River near Oakham, Mass.....	42°20'	72°02'	C2	3.0	-	September 1938	259	86.3	-
120	Fivemile River near North Brookfield, Mass...	42°17'39"	72°02'18"	C2	13.2	-	Aug. 19, 1955	1,730	131	-
121	Lamberton Brook near West Brookfield, Mass...	42°14'08"	72°10'29"	C2	4.47	-	Aug. 19, 1955	4,140	926	-
122	Quaboag River at Warren, Mass.....	42°13'03"	72°11'36"	C2	134	1,850	Aug. 19, 1955	4,730	353	22
123	O'Neil Brook at West Warren, Mass.....	42°13'02"	72°13'16"	C2	2.04	-	Aug. 19, 1955	1,670	819	-
124	Blodgett Mill Brook at West Brimfield, Mass..	42°10'22"	72°14'58"	C2	7.38	-	Aug. 19, 1955	5,860	794	-
125	Foskett Mill Stream near Fentonville, Mass...	42°07'42"	72°15'32"	C2	6.65	-	Aug. 19, 1955	3,900	586	-
126	Quaboag River at Blanchardville, Mass.....	42°09'	72°17'	C2	179	2,500	Sept.21, 1938	12,800	71.5	*1.38
127	Chicopee Brook at South Monson, Mass.....	42°05'01"	72°18'57"	C2	4.68	-	Aug. 19, 1955	1,700	363	-
128	Conant Brook at Conant Pond dam, near South Monson, Mass.	42°04'	72°18'	C2	6.3	-	September 1938	1,230	195	-
129	Conant Brook at Plumby Falls, near South Monson, Mass.	42°04'	72°17'	C2	4.5	-	September 1938	1,560	347	-
130	Conant Brook near South Monson, Mass.....	42°04'24"	72°17'42"	C2	7.94	-	Aug. 19, 1955	5,600	705	-
131	Dye River at North Monson, Mass.....	42°07'	72°18'	C2	20.6	-	Sept.21, 1938	2,440	118	-
132	Broad Brook near Belchertown, Mass.....	42°13'34"	72°24'11"	C4	7.07	-	Aug. 19, 1955	4,740	670	-
133	Twelvemile Brook near North Wilbraham, Mass..	42°08'25"	72°23'41"	C2	8.56	-	Aug. 19, 1955	8,690	1,020	-
134	Chicopee River at Three Rivers, Mass.....	42°11'	72°22'	C4	646	6,500	Sept.22, 1938	40,400	62.5	*1.67
135	Westfield River near West Cummington, Mass...	42°29'	72°57'	C9	40.0	2,000	Sept.21, 1938	15,700	392	*2.11
136	Pond Brook at Norwich, Mass.....	42°17'	72°50'	C9	2.6	-	Sept.21, 1938	875	337	-
137	Walker Brook at Chester, Mass.....	42°16'42"	72°59'03"	C9	17.7	980	Aug. 19, 1955	5,220	295	*1.43
138	Stage Brook at Russell, Mass.....	42°10'59"	72°52'26"	C9	5.21	-	Aug. 19, 1955	4,910	942	-
139	Black Brook at Russell, Mass.....	42°11'47"	72°52'29"	C9	2.97	-	Aug. 19, 1955	1,760	593	-
140	Potash Brook near Blandford, Mass.....	42°10'14"	72°53'15"	C9	1.53	-	Aug. 19, 1955	1,210	791	-
141	Westfield River at Woronoco, Mass.....	42°09'56"	72°49'47"	C9	351	14,000	Aug. 19, 1955	61,500	175	73
142	Cobble Mountain Reservoir tributary near Granville, Mass.	42°06'56"	72°54'15"	C9	.66	-	Aug. 19, 1955	415	629	-
143	Cooks Brook at West Parish, Mass.....	42°06'56"	72°50'26"	C9	.32	-	Aug. 19, 1955	218	681	-
144	Dickinson Brook near Granville, Mass.....	42°04'47"	72°50'42"	C9	6.42	-	Aug. 19, 1955	5,750	896	-
145	Westfield Little River at Westfield, Mass....	42°07'10"	72°47'10"	C9	77.7	3,650	Aug. 19, 1955	21,700	279	*1.60

* Ratio of peak discharge to that of 50-year flood.
f Gage height, 7.0 ft.

Table 3.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

No.	Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
		Latitude	Longitude				Date	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Connecticut River basin--Continued									
146	Powdermill Brook near Westfield, Mass.....	42°09'45"	72°45'49"	C9	2.50	-	Aug. 19, 1955	5,740	2,300	-
147	Great Brook at Southwick, Mass.....	42°03'05"	72°45'41"	C9	19.3	1,080	Aug. 19, 1955	3,610	187	40
148	Clay Brook near Suffield, Conn.....	41°59'54"	72°39'12"	C9	.69	-	Aug. 19, 1955	531	770	-
149	Stony Brook at Suffield, Conn.....	41°58'18"	72°39'29"	C9	36.9	1,900	Aug. 19, 1955	17,300	469	*2.45
150	Scantic River at Somersville, Conn.....	41°59'	72°28'	C2	62.8	900	Sept.21, 1938	4,500	71.7	*1.34
151	Scantic River at Scitico, Conn.....	41°58'58"	72°30'59"	C2	66.0	940	Aug. 19, 1955	15,400	233	*4.41
152	Broad Brook at Broad Brook, Conn.....	41°55'	72°31'	C2	14.0	-	September 1938	900	64.3	-
153	Fall River at Cold Spring, Mass.....	42°09'35"	73°03'33"	-	17.2	-	Aug. 19, 1955	1,320	76.7	-
154	Silver Brook at West New Boston, Mass.....	42°05'38"	73°06'13"	C9	6.52	-	Aug. 19, 1955	4,370	670	-
155	Clam River at West New Boston, Mass.....	42°06'01"	73°05'43"	C9	29.3	1,550	Aug. 19, 1955	12,100	413	*2.10
156	West Branch Farmington River near Riverton, Conn.	41°58'43"	73°01'11"	C9	128	5,600	Aug. 19, 1955	57,200	447	*2.74
157	Mad River near Winsted, Conn.....	41°55'55"	73°05'32"	C9	19.7	1,100	Aug. 19, 1955	10,200	518	*2.49
158	Colebrook Brook at Winsted, Conn.....	41°56'14"	73°05'11"	C9	2.84	-	Aug. 19, 1955	1,660	585	-
159	Highland Lake Outlet at Winsted, Conn.....	41°55'22"	73°04'58"	-	7.30	-	Aug. 19, 1955	4,050	555	-
160	Still River at Winsted, Conn.....	41°55'	73°04'	C9	42.6	2,150	Sept.21, 1938	3,700	86.9	8
161	Sandy Brook at Robertsville, Conn.....	41°59'21"	73°03'10"	C9	31.1	1,600	Aug. 19, 1955	10,100	325	*1.70
162	Morgan Brook near Winsted, Conn.....	41°54'42"	73°00'31"	C9	6.39	-	Aug. 19, 1955	2,510	393	-
163	Hubbard River near West Hartland, Conn.....	42°02'08"	72°56'18"	C9	19.9	1,100	Aug. 19, 1955	10,500	528	*2.56
164	Valley Brook near West Hartland, Conn.....	42°02'03"	72°55'49"	C9	7.20	-	Aug. 19, 1955	8,260	1,150	-
165	Beaver Brook at Barkhamsted, Conn.....	41°55'18"	72°58'19"	C9	5.31	-	Aug. 19, 1955	3,350	631	-
166	Farmington River near Collinsville, Conn.....	41°47'30"	72°55'29"	C9	360	14,300	Aug. 19, 1955	140,000	389	*2.63
167	East Branch Salmon Brook at North Granby, Conn.	42°00'02"	72°50'03"	C9	13.2	760	Aug. 19, 1955	14,300	1,080	*5.06
168	West Branch Salmon Brook at West Granby, Conn.	41°57'35"	72°51'03"	C9	11.7	680	Aug. 19, 1955	10,500	897	*4.14
169	Mill Brook at Newington, Conn.....	41°42'16"	72°43'34"	C9	4.51	-	Sept.12, 1960	g460	102	-
170	North Branch Park River near West Hartford, Conn.	41°48'16"	72°43'34"	C9	18.6	1,040	Aug. 19, 1955	7,980	429	*2.06
171	Hockanum River at Rockville, Conn.....	41°51'	72°27'	-	16.5	-	Sept.21, 1938	1,500	90.9	-
172	Tancanhoosen River at Vernon, Conn.....	41°49'	72°28'	C2	11.4	-	September 1938	2,220	195	-
173	Roaring Brook near Buckingham, Conn.....	41°42'	72°31'	C2	4.7	-	September 1938	471	100	-
174	Cold Brook near East Glastonbury, Conn.....	41°41'	72°32'	C2	6.2	-	September 1938	513	82.7	-
175	Portland Reservoir outlet near Portland, Conn.	41°37'	72°34'	C6	3.4	-	September 1938	880	259	-
176	Great Hill Pond Brook near Portland, Conn....	41°34'	72°34'	C6	1.3	-	September 1938	196	151	-
177	Mine Brook at Middle Haddam, Conn.....	41°32'	72°32'	C6	1.6	-	September 1938	628	392	-
	Quinnipiac River basin									
178	Eightmile River at Plantsville, Conn.....	41°35'20"	72°53'55"	C2	14.9	-	Mar. 12, 1936, Jan. 25, 1938	h755	50.7	-

	Housatonic River basin									
179	East Branch of Housatonic River near Windsor, Mass.	42°30'	73°04'	C9	3.6	-	Sept.21, 1938	1,290	358	-
180	Housatonic River at Dalton, Mass.....	42°27'	73°10'	C9	55.5	2,700	Sept.21, 1938	6,550	118	19
181	Housatonic River at Glendale, Mass.....	42°16'	73°21'	C2	276	3,700	Sept.22, 1938	11,000	39.9	30
182	Housatonic River at Great Barrington, Mass...	42°12'	73°22'	C2	333	4,500	Sept.22, 1938	11,700	35.1	22
183	Salmon Creek at Lime Rock, Conn.....	41°56'30"	73°23'28"	C2	30.1	440	Aug. 19, 1955	6,300	209	*3.84
184	Birdseye Brook at Cornwall, Conn.....	41°49'58	73°19'17"	C2	3.88	-	Aug. 19, 1955	1,300	335	-
185	Furnace Brook at Cornwall Bridge, Conn.....	41°49'06"	73°22'11"	C2	13.5	-	Aug. 19, 1955	4,060	301	-
186	Housatonic River at Bulls Bridge, Conn.....	41°41'	73°31'	C2	782	10,200	Sept.22, 1938	24,000	30.7	18
187	Tenmile River at Dover Plains, N. Y.....	41°43'00"	73°34'10"	C2	189	2,600	Mar. 1, 1902	j5,850	31.0	16
188	West Aspetuck River near Merryall, Conn.....	41°37'14"	73°25'18"	C2	16.6	-	Aug. 19, 1955	1,830	110	-
189	Still River at Danbury, Conn.....	41°24'00"	73°25'44"	C2	38.3	550	Oct. 16, 1955	5,000	131	*2.44
190	Bantam River at Litchfield, Conn.....	41°44'46"	73°10'47"	C9	20.6	1,130	Aug. 19, 1955	10,100	490	*2.40
191	Sprain Brook near Hotchkissville, Conn.....	41°35'13"	73°15'12"	C9	6.91	-	Aug. 19, 1955	2,980	431	-
192	Nonnewaug River at Woodbury, Conn.....	41°33'19"	73°12'05"	C9	25.6	1,360	Aug. 19, 1955	12,300	480	*2.42
193	Transylvania Brook near South Britain, Conn..	41°29'58"	73°15'25"	C9	2.45	-	Aug. 19, 1955	839	342	-
194	Pomperaug River at South Britain, Conn.....	41°28'	73°16'	C9	87.4	4,050	September 1938	7,950	91.0	11
195	Copper Mill Brook near Monroe, Conn.....	41°21'46"	73°13'08"	C2	2.50	-	Sept.12, 1960	k283	113	-
196	Housatonic River at Derby, Conn.....	41°19'	73°06'	C2	1,581	20,000	Mar. 12, 1936	69,600	44.0	44
197	West Branch Naugatuck River near West Torrington, Conn.	41°50'03"	73°08'55"	C9	24.2	1,300	Aug. 19, 1955	11,900	492	*2.46
198	East Branch Naugatuck River at Torrington, Conn.	41°49'24"	73°07'23"	C9	10.2	610	Aug. 19, 1955	6,210	609	*2.74
199	Naugatuck River at Thomaston, Conn.....	41°40'25"	73°04'12"	C9	105	4,750	Aug. 19, 1955	m55,000	524	*3.12
200	Branch Brook near Thomaston, Conn.....	41°39'27"	73°06'17"	C9	21.0	-	Aug. 19, 1955	10,300	490	-
201	Branch of Naugatuck River near Thomaston, Conn.	41°40'	73°08'	C9	18.0	1,000	Sept.21, 1938	3,610	201	47
202	Naugatuck River near Waterbury, Conn.....	41°36'37"	73°03'35"	C9	138	6,000	Aug. 19, 1955	75,900	550	*3.39
203	Hancock Brook near Waterbury, Conn.....	41°36'10"	73°02'46"	C9	12.9	750	Aug. 19, 1955	4,870	378	*1.74
204	Steel Brook at Oakville, Conn.....	41°35'11"	73°04'43"	C9	12.9	750	Aug. 19, 1955	5,890	457	*2.11
205	Mad River at Waterbury, Conn.....	41°32'58"	73°00'24"	C9	18.0	1,000	Aug. 19, 1955	2,070	115	13
206	Hop Brook near Naugatuck, Conn.....	41°30'21"	73°03'31"	C9	16.5	940	Aug. 19, 1955	2,650	161	27
	Poquonock River basin									
207	Poquonock River at Trumbull, Conn.....	41°15'16"	73°12'27"	C2	14.4	-	Oct. 16, 1955	4,110	285	-
	Norwalk River basin									
208	Norwalk River at Branchville, Conn.....	41°16'31"	73°26'43"	C2	7.54	-	Oct. 16, 1955	3,100	411	-
	Five Mile River basin									
209	Five Mile River near New Canaan, Conn.....	41°07'29"	73°28'18"	C2	5.85	-	Oct. 16, 1955	2,140	366	-
	Mianus River basin									
210	Mianus River near Stamford, Conn.....	41°06'02"	73°35'21"	C2	26.6	390	Oct. 16, 1955	3,780	142	*2.60

* Ratio of peak discharge to that of 50-year flood.
g Gage height, 6.70 ft.
h Gage height, 4.4 ft.
j Gage height, 15.5 ft.
k Gage height, 5.84 ft.
m Gage height, 27.0 ft.

100. St. John River at Ninemile Bridge, Maine

Location.--Lat 46°42'00", long 69°43'00", T.12, R.15, Aroostook County, on right bank 0.1 mile downstream from Ninemile Brook, 0.4 mile downstream from highway bridge at Ninemile, and 11 miles northwest of Clayton Lake Post Office.

Drainage area.--1,290 sq mi, approximately.

Gage.--Recording. Datum of gage is 931.26 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs and extended above 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)
1951	Nov. 7, 1950	-	a b12,000	1954	Sept.12, 1954	7.04	14,800
	Nov. 30, 1950	-	a16,100				
	Dec. 13, 1950	-	a13,000	1955	Oct. 14, 1954	6.42	12,400
	Apr.11,12,1951	-	a18,800		Apr. 20, 1955	9.33	25,400
	Apr. 30, 1951	-	a14,400		May 5, 1955	8.30	20,100
1952	Nov. 5, 1951	6.18	11,400	1956	May 1, 1956	6.49	12,700
	Apr. 27, 1952	8.10	19,200		May 15, 1956	6.99	14,600
	May 15, 1952	6.57	12,900		May 24, 1956	5.96	10,500
	May 17, 1952	6.50	12,700				
				1957	Apr. 22, 1957	(d)	(d)
1953	Apr. 2, 1953	-	a17,200				
	Apr. 12, 1953	6.76	13,600	1958	Dec. 23, 1957	(d)	(d)
	Apr. 25, 1953	6.01	10,700		Apr. 25, 1958	10.97	34,200
	Apr. 29, 1953	6.10	11,100		May 10, 1958	6.51	12,700
	May 16, 1953	6.35	12,100		Aug. 10, 1958	6.13	11,200
	May 19, 1953	6.68	13,300				
				1959	Apr. 27, 1959	7.42	16,300
1954	Apr. 12, 1954	c10.39	-		June 15, 1959	6.73	13,500
	Apr. 23, 1954	9.81	27,800		Aug. 27, 1959	6.09	11,100
	May 7, 1954	7.87	18,100				
	June 3, 1954	7.24	15,600	1960	Apr. 20, 1960	-	13,000
	June 28, 1954	7.14	15,200		May 7, 1960	-	26,000
	Aug. 13, 1954	6.01	10,700		May 15, 1960	-	22,100

a Daily mean discharge.
b Estimated.
c Backwater from ice.
d Not determined.

105. St. John River at Dickey, Maine
(Published as "near Dickey" 1910-11)

Location.--Lat 47°06'40", long 69°05'15", on right bank at Dickey, Aroostook County, 0.6 mile downstream from Little Black River and 2.5 miles upstream from Allagash River.

Drainage area.--2,700 sq mi, approximately.

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

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs and extended above by logarithmic plotting. Minor shifts in relation have occurred.

Bankfull stage.--Not subject to overflow.

Remarks.--Peak discharge not affected by artificial storage. Base for partial-duration series, 27,000 cfs.

Peak stages and discharges of St. John River at Dickey, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Oct. 2, 1946	11.53	33,000	1953	Apr. 1, 1953	14.15	51,100
	Apr. 15, 1947	a16.96	-				
	May 9, 1947	16.30	68,700	1954	Apr. 13, 1954	a18.48	-
	May 14, 1947	13.57	46,900		Apr. 24, 1954	15.10	58,600
	May 23, 1947	13.10	43,500		May 7, 1954	12.57	39,800
					June 4, 1954	10.95	29,700
1948	Apr. 5, 1948	10.88	29,300		June 29, 1954	11.43	32,400
	May 9, 1948	12.06	36,600		Sept.13, 1954	11.19	31,000
	May 20, 1948	11.72	33,400				
				1955	Apr. 15, 1955	a16.47	-
1949	Mar. 31, 1949	a16.48	-		Apr. 21, 1955	12.73	40,900
	Apr. 17, 1949	10.86	29,200		May 5, 1955	12.98	42,700
1950	Apr. 20, 1950	a18.63	-	1956	Apr. 18, 1956	a10.83	-
	Apr. 23, 1950	12.00	36,000		May 16, 1956	10.54	27,400
1951	Nov. 30, 1950	11.68	33,900	1957	Apr. 20, 1957	a13.57	-
	Dec. 13, 1950	10.69	28,200		Apr. 23, 1957	-	34,200
	Apr. 12, 1951	13.32	45,100				
	May 1, 1951	11.44	32,400	1958	Apr. 25, 1958	16.58	71,200
					May 10, 1958	10.47	27,000
1952	Apr. 18, 1952	a17.53	-				
	Apr. 30, 1952	12.33	38,200	1959	Apr. 28, 1959	11.18	31,000
	May 15, 1952	11.12	30,600				
				1960	May 7, 1960	13.92	49,400
1953	Mar. 29, 1953	a19.88	-		May 16, 1960	13.05	43,200

a Backwater from ice.

110. Allagash River near Allagash, Maine

Location.--Lat 47°04'15", long 69°04'50", on left bank a quarter of a mile upstream from Allagash Inn and 3 miles upstream from mouth and village of Allagash, Aroostook County.

Drainage area.--Area, 1,250 sq mi, approximately (not including 240 sq mi drained by Chamberlain Lake through Telos Canal). Area of lakes and reservoirs, and ponds, 47.2 sq mi. Length of main stream, 104 miles. Average slope above gage, 4.34 ft per mile.

Gage.--Recording. Datum of gage is 604.6 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in relation have occurred.

Bankfull stage.--Not subject to overflow.

Remarks.--Peak discharge not materially affected by artificial or natural storage. Base for partial-duration series, 11,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Apr. 4, 1932	8.36	13,400	1939	May 1, 1939	13.14	13,500
	Apr. 23, 1932	7.91	11,900		May 11, 1939	10.78	21,500
	Sept.18, 1932	9.44	16,500		July 29, 1939	7.65	11,000
1933	Apr. 22, 1933	14.22	-	1940	May 4, 1940	8.95	14,300
	May 4, 1933	11.32	23,400				
				1941	Apr. 22, 1941	9.80	17,600
1934	Apr. 22, 1934	9.40	16,500				
	Apr. 26, 1934	9.91	18,300	1942	May 5, 1942	11.24	22,500
	May 4, 1934	9.82	18,100				
				1943	May 13, 1943	9.38	15,900
1935	May 2, 1935	7.48	10,800		May 18, 1943	9.10	15,100
1936	Mar. 23, 1936	8.90	14,900	1944	May 11, 1944	7.80	10,800
	May 3, 1936	10.26	18,100				
				1945	Apr. 3, 1945	8.56	13,100
1937	Apr. 30, 1937	-	12,600		Apr. 14, 1945	8.86	14,000
	May 21, 1937	8.06	12,500		Apr. 29, 1945	9.30	15,500
1938	Apr. 19, 1938	8.28	-	1946	May 17, 1946	9.94	17,700
	Apr. 21, 1938	7.93	11,100				

Peak stages and discharges of Allagash River near Allagash, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 22, 1947	8.91	14,100	1954	May 6, 1954	8.37	12,500
	May 8, 1947	9.74	16,900		June 28, 1954	8.80	13,800
	May 14, 1947	9.33	15,600		Sept.12, 1954	7.56	10,100
	May 23, 1947	9.60	16,600				
				1955	Apr. 20, 1955	8.25	12,200
1948	May 9, 1948	7.60	10,200		May 5, 1955	9.40	15,900
1949	May 4, 1949	8.80	11,000	1956	May 16, 1956	7.30	9,370
1950	Apr. 19, 1950	7.62	-	1957	Apr. 29, 1957	6.69	7,740
	Apr. 23, 1950	6.85	8,150				
				1958	Dec. 22, 1957	6.84	8,120
1951	Dec. 13, 1950	7.67	10,400		Apr. 25, 1958	10.25	19,000
	Apr. 15, 1951	10.36	-		May 9, 1958	9.34	15,700
					Aug. 19, 1958	7.68	10,400
1952	Apr. 30, 1952	8.07	11,600				
	May 13, 1952	8.61	13,200	1959	Mar. 8, 1959	7.03	8,620
					June 15, 1959	5.84	5,740
1953	Apr. 4, 1953	7.90	11,100				
				1960	Apr. 23, 1960	a14.16	-
1954	Apr. 23, 1954	9.31	15,500		May 10, 1960	10.63	b20,400

a Ice jam.
b Annual peak only.

115. St. Francis River at outlet of Glazier Lake, near Connors, New Brunswick

Location.--Lat 47°12'25", long 68°57'25", on left bank at outlet of Glazier Lake, 4 miles upstream from mouth and 6.5 miles west of Connors, Madawaska County.

Drainage area.--496 sq mi.

Gage.--Recording. Altitude of gage is 550 ft (from International Boundary Map).

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

Remarks.--Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 1, 1952	9.83	a6,660	1956	May 17, 1956	7.66	4,110
1953	Apr.4-5, 1953	9.24	a5,830	1957	May 1, 1957	8.70	a5,280
1954	Apr. 25, 1954	11.03	8,120	1958	Apr. 26, 1958	13.21	a10,800
	May 8, 1954	7.82	4,170				
	May 13, 1954	8.37	4,800	1959	Apr.29,May 9, 1959	8.40	a4,920
	Aug. 14, 1954	7.27	3,610				
1955	May 6, 1955	11.53	8,770	1960	May 12, 1960	10.85	a7,170

a Annual peak only.

125. St. John River at Fort Kent, Maine

Location.--Lat 47°14'55", long 68°36'20", on left abutment of footbridge in town of Fort Kent, Aroostook County, half a mile upstream from mouth of Fish River.

Drainage area.--4,790 sq mi approximately, not including 240 sq mi drained by Chamberlain Lake through Telos Canal.

Gage.--Nonrecording. Altitude of gage is 490 ft (from topographic map).

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

Bankfull stage.--14 ft.

Remarks.--Peak discharge not affected by artificial storage. Only annual peaks are shown.

Peak stages and discharges of St. John River at Fort Kent, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	May 8, 1906	13.77	42,400	1911	May 3, 1911	18.20	67,500
1907	May 20, 1907	17.00	60,200	1912	Apr. 27, 1912	19.0	72,400
1908	May 4, 1908	17.6	63,900	1913	Apr. 30, 1913	19.5	75,400
1909	May 13, 1909	19.7	76,700	1914	May 11, 1914	18.32	68,300
1910	Apr. 25, 1910	17.40	62,600	1915	May 6, 1915	13.95	43,200

135. Fish River near Fort Kent, Maine

Location.--Lat 47°14'15", long 68°34'55", on right bank 300 ft upstream from highway bridge at Fort Kent Mills, 2 miles upstream from mouth, and 2 miles south of Fort Kent, Aroostook County.

Drainage area.--Area, 871 sq mi. Area of lakes, reservoirs, and ponds, 6.69 sq mi. Length of main stream, 73.9 miles. Average slope above gage, 2.80 ft per mile. Average tributary slope, 52.7 ft per mile. Average land slope, 449 ft per mile. Stream density, 1.18 miles per square mile. Mean altitude of basin, 859 ft.

Gage.--Nonrecording at site 10 miles upstream at different datum 1903-8; recording since September 1929. Datum of gage is 511.38 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur frequently.

Bankfull stage.--Not subject to overflow.

Remarks.--Peak discharge rarely exceeds daily mean discharge by more than 5 percent. Base for partial-duration series, 5,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	May 8, 1930	9.86	9,380	1946	May 7, 1946	8.70	7,660
					May 17, 1946	8.81	7,840
1931	Apr.24,25, 1931	7.4	5,110	1947	May 8, 1947	10.27	11,000
1932	Apr. 23, 1932	8.81	7,530		May 14, 1947	9.95	10,300
1933	May 5, 1933	10.15	9,980	1948	May 11, 1948	7.50	5,800
					May 23, 1948	7.40	5,630
1934	Apr. 26, 1934	10.50	11,000				
	May 4, 1934	10.30	10,700	1949	Apr. 24, 1949	7.44	5,700
1935	May 1, 1935	8.80	7,900	1950	Apr.29,30,1950	7.82	6,330
1936	Mar. 24, 1936	8.73	8,210	1951	Dec. 13, 1950	8.33	7,270
	May 5, 1936	8.30	7,410		Apr. 16, 1951	9.05	8,600
1937	May 3, 1937	8.06	7,010	1952	Apr. 30, 1952	9.01	8,530
1938	Apr.29,30, 1938	7.35	5,630	1953	Apr. 7, 1953	9.33	9,120
1939	May 11, 1939	10.20	10,700	1954	Apr. 24, 1954	9.47	9,380
					Aug. 14, 1954	7.82	6,350
1940	May 6-7, 1940	9.30	8,640	1955	May 5, 1955	10.25	10,900
1941	Apr. 22, 1941	9.22	8,460	1956	May 15, 1956	6.92	4,890
1942	May 5, 1942	10.45	10,600	1957	Apr. 30, 1957	7.68	6,120
1943	May 13,14,1943	9.22	8,460	1958	Apr. 26, 1958	10.81	a12,000
1944	May 11-12,1944	7.55	5,710	1959	May 7, 1959	7.40	a5,660
1945	Apr. 14, 1945	9.33	8,340	1960	May 16, 1960	9.85	a10,100
1946	May 2, 1946	8.73	7,710				

a Annual peak only.

140. St. John River below Fish River, at Fort Kent, Maine
(Published as "at Fort Kent" prior to Oct. 1, 1931)

Location.--Lat 47°15'25", long 68°35'35", on right bank at Fort Kent, Aroostook County, a quarter of a mile downstream from Fish River.

Drainage area.--Area, 5,690 sq mi, approximately (not including about 240 sq mi drained by Chamberlain Lake through Telos Canal). Area of lakes, reservoirs, and ponds, 131 sq mi. Length of main stream, 167 miles. Average slope above gage, 5.32 ft per mile.

Gage.--Nonrecording on opposite bank at same datum prior to Oct. 10, 1933; recording thereafter. Datum of gage is 488.9 ft above mean sea level, datum of 1929.

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

Bankfull stage.--13.5 ft.

Remarks.--Peak runoff not affected by artificial storage. Base for partial-duration series, 45,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Apr. 24, 1927	17.28	66,500	1945	Apr. 14, 1945	18.67	71,200
					Apr. 30, 1945	17.40	62,000
1928	Nov. 19, 1927	17.85	69,900		May 20, 1945	15.38	49,300
	Apr. 14, 1928	14.20	45,800				
	May 8, 1928	20.7	90,000	1946	Apr. 28, 1946	18.32	68,400
	May 26,27,1928	18.00	71,300		May 18, 1946	18.37	69,100
1929	May 6, 1929	19.0	78,200	1947	May 9, 1947	23.88	114,000
					May 14, 1947	20.70	86,600
1930	May 4, 1930	21.65	96,300		May 23, 1947	20.05	81,000
1931	Apr. 24, 1931	14.63	48,400	1948	May 10, 1948	17.08	60,100
					May 20, 1948	16.38	55,500
1932	Apr. 14, 1932	15.50	54,300				
	Apr. 24, 1932	17.62	68,600	1949	Apr. 17, 1949	15.35	49,000
	May 4, 1932	16.98	64,500		May 4, 1949	15.37	49,100
	Sept.19, 1932	15.45	53,600				
				1950	Apr. 23, 1950	18.05	66,600
1933	Apr. 22, 1933	14.95	51,000				
	May 5, 1933	25.1	121,000	1951	Nov. 30, 1950	15.55	50,200
					Dec. 13, 1950	15.83	52,000
1934	Apr. 22, 1934	21.27	92,300		Apr. 10, 1951	19.30	77,800
	Apr. 26, 1934	21.84	95,700		May 1, 1951	16.40	56,700
	May 4, 1934	21.62	94,200				
				1952	Apr. 30, 1952	18.58	69,300
1935	May 2, 1935	18.97	75,400		May 15, 1952	17.12	59,300
1936	Mar. 23, 1936	19.86	82,000	1953	Mar. 31, 1953	22.55	-
	Apr. 2, 1936	14.71	47,400		Apr. 1, 1953	19.41	75,400
	May 4, 1936	19.44	78,000		Apr. 29, 1953	15.45	48,800
1937	May 1, 1937	16.91	60,700	1954	Apr. 24, 1954	22.17	97,000
	May 22, 1937	14.83	47,100		May 7, 1954	18.07	65,700
					June 29, 1954	15.71	50,300
1938	Apr. 22, 1938	18.27	70,200				
	May 1, 1938	15.82	53,400	1955	May 5, 1955	20.68	85,100
1939	May 11, 1939	24.53	115,000	1956	May 16, 1956	15.22	48,300
1940	May 5, 1940	20.68	87,000	1957	Apr. 22, 1957	a15.78	-
					Apr. 24, 1957	15.54	50,200
1941	Apr. 22, 1941	23.56	109,000				
				1958	Dec. 23, 1957	-	51,000
1942	May 5, 1942	24.04	115,000		Apr. 26, 1958	24.55	118,000
	June 19, 1942	14.67	45,000		May 10, 1958	16.39	55,700
1943	May 13, 1943	20.99	89,000	1959	Apr. 28, 1959	15.95	52,700
	May 19, 1943	19.48	77,200				
				1960	Apr. 21, 1960	14.66	45,300
1944	Nov. 10, 1943	14.74	45,000		May 8, 1960	21.37	91,000
	May 7, 1944	18.95	73,400		May 16, 1960	20.31	83,200
1945	Apr. 3, 1945	19.65	78,000				

a Backwater from ice.

150. St. John River at Van Buren, Maine

Location.--Lat 47°09'35", long 67°55'55", on second pier from Van Buren side of International Bridge on route between Van Buren, Aroostook County, and St. Leonard, New Brunswick, 13 miles above Grand Falls, New Brunswick.

Drainage area.--8,270 sq mi, approximately, not including 240 sq mi drained by Chamberlain Lake through Telos Canal.

Gage.--Nonrecording. At site 700 ft downstream prior to Mar. 20, 1911. Datum of gage is 407.69 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur; stage-discharge relation destroyed after September 1928 upon completion of dam at Grand Falls, New Brunswick.

Bankfull stage.--19.0 ft.

Remarks.--Peak discharge not affected by artificial storage. 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	May 4, 1908	31.60	108,000	1919	May 20, 1919	24.40	103,000
1909	May 13, 1909	34.90	134,000	1920	May 11, 1920	24.70	105,000
1911	May 3,4, 1911	34.90	134,000	1921	Apr. 20, 1921	22.70	92,000
				1922	June 20, 1922	25.30	109,000
1913	Apr. 29, 1913	26.90	119,000	1923	May 2, 1923	29.15	135,000
1914	May 12, 1914	24.70	105,000	1924	May 17, 1924	25.55	111,000
1915	May 9, 1915	22.40	90,100	1925	May 7, 1925	23.30	96,000
1916	Apr. 26, 1916	21.66	85,300	1926	May 19, 1926	22.80	92,700
1917	June 20, 1917	23.00	94,000	1927	Apr. 24, 1927	22.10	88,200
1918	May 2, 1918	24.70	105,000	1928	May 8, 1928	26.70	118,000

165. Machias River near Ashland, Maine

Location.--Lat 46°37'40", long 68°26'05", on right bank just upstream from highway bridge, 0.8 mile upstream from mouth and 1½ miles west of Ashland, Aroostook County.

Drainage area.--330 sq mi.

Gage.--Recording. Altitude of gage is 535 ft (from topographic map).

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

Remarks.--Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Apr.27,28,1952	-	4,650	1957	Dec. 3, 1956	a5.20	-
	June 8, 1952	-	3,500		Apr. 24, 1957	4.78	3,730
1953	Apr. 1, 1953	9.70	11,800	1958	Dec. 23, 1957	a8.37	-
	Apr. 30, 1953	5.65	4,200		Dec. 26, 1957	6.93	6,850
					Apr. 25, 1958	7.75	8,180
1954	Apr. 24, 1954	6.87	6,220		May 10, 1958	4.87	3,810
	May 11, 1954	5.45	3,900				
	June 29, 1954	11.94	16,600	1959	Apr. 12, 1959	a8.48	-
	Aug. 13, 1954	5.55	4,520		Apr. 27, 1959	4.39	3,190
	Sept.14, 1954	4.93	3,630				
				1960	Apr. 19, 1960	a9.74	-
1955	May 5, 1955	6.03	5,710		May 9, 1960	7.47	8,270
					May 15, 1960	6.25	6,080
1956	May 15, 1956	4.67	3,570				

a Maximum yearly stage (backwater from ice).

170. Aroostook River at Washburn, Maine

Location.--Lat 46°46'35", long 68°09'30", on right bank just upstream from Bangor and Aroostook Railroad bridge, 0.1 mile downstream from Salmon Brook and 1 mile south of railroad station at Washburn, Aroostook County.

Drainage area.--Area, 1,652 sq mi. Area of lakes, reservoirs, and ponds, 33.1 sq mi. Length of main stream, 89.6 miles. Average slope above gage, 4.14 ft per mile.

Gage.--Nonrecording prior to Oct. 31, 1933; recording thereafter. Prior to Oct. 1, 1948, at datum 2.0 ft higher. Datum of present gage is 436.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur frequently.

Bankfull stage.--10 ft.

Historical data.--Flood of April, May 1923 reached a discharge of about 51,000 cfs.

Remarks.--Peak runoff not materially affected by artificial or natural storage. Base for partial-duration series, 13,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Apr. 13, 1931	8.0	13,500	1945	May 20, 1945	7.25	18,300
1932	Apr. 13, 1932	9.42	20,900	1946	Mar. 30, 1946	10.0	-
	Apr. 23, 1932	8.76	17,500		Apr. 28, 1946	8.22	22,900
	Sept.19, 1932	7.91	13,100		May 7, 1946	6.80	16,700
1933	Apr. 19, 1933	8.16	14,500	1947	May 8, 1947	9.58	31,800
	May 4, 1933	9.89	24,000		May 22, 1947	6.08	15,100
1934	Apr. 21, 1934	11.65	36,200	1948	May 20, 1948	6.05	14,200
	May 4, 1934	8.57	16,500				
				1949	Apr. 9, 1949	9.34	-
1935	Apr. 20, 1935	10.69	-		Apr. 18, 1949	8.06	14,000
	Apr. 23, 1935	8.91	18,100				
	May 1, 1935	9.85	23,300	1950	Apr. 23, 1950	10.03	22,100
1936	Mar. 22, 1936	11.80	37,800	1951	Nov. 30, 1950	10.22	23,000
	May 4, 1936	9.20	19,700		Apr. 6, 1951	15.78	-
1937	Apr. 22, 1937	8.13	14,000	1952	Apr. 20, 1952	10.51	-
	Apr. 30, 1937	8.37	15,500		Apr. 30, 1952	9.09	18,700
1938	Apr. 22, 1938	8.60	17,500	1953	Mar. 30, 1953	13.75	-
	May 1, 1938	7.74	13,000		Apr. 3, 1953	11.88	32,600
	May 17, 1938	7.93	13,900		Apr. 30, 1953	8.32	15,500
	July 6, 1938	8.01	14,400				
				1954	Apr. 24, 1954	10.30	24,500
1939	May 11, 1939	10.00	30,100		May 12, 1954	7.98	14,400
					June 29, 1954	11.84	32,400
1940	Apr. 14, 1940	10.90	30,900		Aug. 13, 1954	8.91	18,000
	Apr. 15, 1940	13.50	-		Sept.13, 1954	10.21	24,000
	May 5, 1940	8.50	23,300				
	June 28, 1940	6.36	13,900	1955	May 6, 1955	9.43	20,200
1941	Apr. 17, 1941	10.53	-	1956	Apr. 18, 1956	8.03	-
	Apr. 22, 1941	9.00	27,100		May 16, 1956	7.44	12,500
1942	Apr. 28, 1942	8.84	26,000	1957	Apr. 24, 1957	7.72	13,500
	June 17, 1942	7.20	17,900				
				1958	Dec. 24, 1957	-	15,000
1943	May 13, 1943	8.47	24,400		Apr. 25, 1958	12.40	35,400
					May 10, 1958	8.16	15,100
1944	Nov. 11, 1943	6.70	16,300		Aug. 19, 1958	8.37	15,900
1945	Apr. 3, 1945	7.78	21,000	1959	Apr. 27, 1959	7.75	13,600
	Apr. 14, 1945	7.41	19,700				
	Apr. 30, 1945	7.09	17,900	1960	May 16, 1960	10.40	a25,000

a Annual peak only.

175. Aroostook River at Fort Fairfield, Maine

Location.--Lat 46°46'25", long 67°49'55", on upstream side of bridge on Route 165 at Fort Fairfield, Aroostook County, 3 miles upstream from the international boundary line and 7¾ miles below the mouth of Little Madawaska Stream.

Drainage area.--2,230 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 340 ft (from topographic map).

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

Historical data.--Flood of May 1923 reached a discharge of about 70,000 cfs. Stage has approached the stage of the 1923 flood three times since then from the effect of moderate flows augmented by ice jams.

Remarks.--Peak discharge not materially affected by artificial or natural storage. 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	May 2, 1904	13.90	30,100	1908	May 3, 1908	14.4	32,000
				1909	May 13, 1909	14.85	33,700
1906	May 7, 1906	13.45	28,400	1910	Oct. 1, 1909	14.15	31,100
1907	May 1, 1907	15.05	34,500				

180. Meduxnekeag River near Houlton, Maine

Location.--Lat 46°06'15", long 67°52'00", on right bank 0.3 mile downstream from South Branch and 2 miles upstream from Houlton, Aroostook County.

Drainage area.--Area, 175 sq mi. Area of lakes, reservoirs, and ponds, 2.78 sq mi. Length of main stream, 17.1 miles. Average slope above gage, 19.9 ft per mile.

Gage.--Recording. Datum of gage is 333.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in the relation occur.

Bankfull stage.--6 ft.

Remarks.--Peak discharge not materially affected by artificial or natural storage. 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)
1941	Apr. 18, 1941	5.78	2,080	1951	Apr. 4, 1951	7.32	3,890
1942	Apr. 20, 1942	5.83	2,170	1952	Apr. 16, 1952	5.86	2,280
	Apr. 26, 1942	6.66	3,190		Apr. 21, 1952	6.70	3,180
	June 17, 1942	6.26	2,680	1953	Mar. 27, 1953	10.83	-
1943	Apr. 26, 1943	6.09	2,470		Mar. 31, 1953	7.91	4,630
1944	Nov. 10, 1943	6.24	2,580	1954	Apr. 19, 1954	8.09	4,870
					Sept. 12, 1954	9.28	6,590
1945	Apr. 3, 1945	6.93	3,520	1955	Apr. 16, 1955	7.40	3,860
	May 20, 1945	5.84	2,230				
1946	Mar. 30, 1946	6.15	-	1956	Apr. 18, 1956	6.44	2,780
	Apr. 28, 1946	6.25	2,700	1957	Apr. 22, 1957	5.58	1,900
1947	May 5, 1947	8.56	5,440	1958	Dec. 22, 1957	7.05	3,460
1948	May 19, 1948	6.18	2,670		Apr. 19, 1958	7.17	3,600
					Apr. 23, 1958	9.30	6,620
1949	Mar. 30, 1949	8.28	-	1959	Apr. 6-7, 1959	a8.49	4,200
	Apr. 17, 1949	5.13	1,490				
1950	Apr. 22, 1950	8.57	5,400	1960	Oct. 26, 1959	5.82	2,140
					Nov. 26, 1959	6.48	2,830
1951	Nov. 22, 1950	5.91	2,230		Nov. 29, 1959	6.95	3,350
	Nov. 28, 1950	8.45	5,240		Apr. 19, 1960	6.65	3,020
	Dec. 13, 1950	8.40	5,170				

a Backwater from ice.

185. St. Croix River at Vanceboro, Maine

Location.--Lat 45°34'10", long 67°25'45", on right bank at international highway bridge in Vanceboro, Washington County, 400 ft downstream from outlet of Spednik Lake.

Drainage area.--417 sq mi.

Gage.--Recording. Datum of gage is 367.75 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks in general do not exceed the daily mean by more than 5 percent. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 cu ft). Base for partial-duration series, 1,440 cfs. All figures except those footnoted are daily mean discharges.

Maximum stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 13, 1929	7.07	1,870	1947	May 15, 1947	6.56	1,640
					June 5, 1947	7.64	a2,670
1930	May 7, 1930	6.13	a1,270		June 30, 1947	6.31	1,440
					July 16, 1947	6.80	1,850
1931	Aug.3,4, 1931	6.44	1,450		Aug. 5, 1947	6.85	1,900
					Sept.28, 1947	7.13	2,150
1932	Apr. 22, 1932	7.42	a2,190				
	May 4, 1932	7.11	1,940	1948	Oct. 1, 1947	7.15	a2,170
					Oct. 12, 1947	6.78	1,810
1933	May 5, 1933	6.90	a1,780		Oct. 23, 1947	6.43	1,530
					July 4, 1948	6.43	1,530
1934	Apr. 25, 1934	8.47	3,650		July 16, 1948	6.88	1,920
	June 5, 1934	6.37	1,470				
				1949	July 27, 1949	6.31	a1,440
1935	May 2,3,6,1935	7.06	a2,080				
				1950	June 10,11,1950	6.48	1,520
1936	Mar. 23, 1936	8.81	a4,010		July 29, 1950	7.55	a2,500
	Apr. 9, 1936	7.57	2,580				
	May 7, 1936	7.12	2,120	1951	Mar. 1, 1951	7.14	2,090
	June 2, 1936	6.66	1,720		Apr. 9, 1951	8.46	a3,530
	Sept.10, 1936	6.49	1,590		Apr.29,30,1951	7.26	2,210
					June 14, 1951	6.72	1,720
1937	May 25, 1937	6.78	a1,850		June 24, 1951	6.74	1,730
	June 15, 1937	6.58	1,670		July 6, 1951	6.55	1,580
					Sept.14, 1951	6.42	1,480
1938	May 21, 1938	6.50	1,590		Sept.21, 1951	6.83	1,810
1939	May 10-14,1939	7.21	2,220	1952	Feb. 21, 1952	6.88	1,810
	July 4, 1939	6.55	1,630		Mar. 1, 1952	6.82	1,760
	Aug. 19, 1939	7.12	2,120		Mar. 5, 1952	6.88	1,810
					Apr. 23, 1952	7.00	1,920
1940	Aug. 30, 1940	7.53	a2,580		May 17, 1952	6.88	1,810
					June 11, 1952	8.69	a3,810
1941	July 2, 1941	6.41	a1,510		June 24, 1952	6.44	1,440
					July 8, 1952	6.44	1,440
1942	May 22, 1942	6.44	1,550		July 15, 1952	6.54	1,510
	June 30, 1942	6.56	1,630				
	Aug. 13, 1942	6.68	1,760	1953	Mar.21-22, 1953	-	2,290
	Aug. 29, 1942	7.84	a2,850		Apr.17-18, 1953	-	2,420
	Sept.10, 1942	6.98	2,030		Apr.21-22, 1953	-	2,420
	Sept.26, 1942	6.42	1,510		May 10-11, 1953	-	1,600
					May 21-23, 1953	-	1,700
1943	Sept. 7, 1943	6.49	a1,590		May 26, 1953	-	1,700
					June 3, 1953	-	2,770
1944	June 9, 1944	6.27	a1,390		June 9-10,1953	-	1,800
					June 16-17,1953	-	1,710
1945	Feb. 6, 1945	6.60	1,670		June 23, 1953	-	1,660
	Apr. 14, 1945	6.49	1,590		June 30, 1953	-	2,330
	May 1,2,3,4, 1945	8.34	3,410				
				1954	Jan.10-11, 1954	-	1,490
	May 19,20, 1945	8.15	3,290		Apr. 23, 1954	9.24	a4,470
	July 3, 1945	6.83	1,900		May 11, 1954	-	2,380
					June 7, 1954	-	1,990
1946	Dec. 30, 1945	6.70	1,760		July 30, 1954	-	1,810
	May 10, 1946	6.83	a1,880		Aug. 22, 1954	-	1,830
	July 22, 1946	6.32	1,450				

a Momentary peak.

Maximum stages and discharges of St. Croix River at Vanceboro, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 4, 1954	7.43	a2,350	1956	Aug. 6, 1956	6.95	a1,800
	Nov. 19, 1954	-	2,090				
	Dec. 22, 1954	7.52	-	1957	May 16, 1957	6.37	b1,350
	Dec.23-24, 1954	-	2,280				
	Mar. 8, 1955	-	1,730	1958	May 6-7, 1958	9.16	b4,350
	Mar. 29, 1955	-	1,630				
	May 1, 1955	-	2,020	1959	Mar. 16, 1959	7.16	b2,150
	May 7, 1955	-	1,650				
	July 29, 1955	-	1,610	1960	Nov. 30, 1959	-	b4,830
1956	June 20,21,1956	-	1,450				

a Momentary peak.
b Annual peak only (momentary peak).

190. Grand Lake Stream at Grand Lake Stream, Maine

Location.--Lat 45°10'25", long 67°46'05", at Big Falls, 0.5 mile southeast of village of Grand Lake Stream, Washington County, and 0.8 mile downstream from outlet dam of Grand Lake.

Drainage area.--224 sq mi.

Gage.--Recording. Datum of gage is 273.96 ft above mean sea level, datum of 1929.

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

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks in general do not exceed the daily mean by more than 5 percent. Flow regulated by Grand and other lakes (combined usable capacity, about 8,250,000,000 cu ft). Base for partial-duration series, 830 cfs. All figures except those footnoted are daily mean discharges.

Maximum stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 7, 1929	4.73	1,510	1940	July 3, 1940	3.90	990
	Aug. 10, 1929	4.91	a1,650		Aug. 27, 1940	4.52	a1,380
	Aug. 20, 1929	4.93	1,100				
				1941	June 23, 1941	3.78	a918
1930	July 23, 1930	4.62	a1,430				
				1942	June 7, 1942	5.01	a1,730
1931	Sept.29, 1931	3.63	a828		Aug. 11, 1942	3.95	1,020
					Aug. 24, 1942	3.94	1,010
1932	Oct. 14, 1931	4.04	1,070		Sept. 5, 1942	4.56	1,410
	Feb. 24, 1932	3.73	888				
	May 5, 1932	4.62	a1,450	1943	Aug. 5, 1943	3.64	a834
1933	Mar. 23, 1933	4.07	a1,090	1944	Jan. 19, 1944	4.23	a1,190
	May 2-3, 1933	3.95	1,020		Jan. 26, 1944	4.03	1,070
					July 16, 1944	3.93	1,010
1934	Mar. 19, 1934	3.80	930				
	Apr. 28, 1934	3.95	1,020	1945	Apr.11-12, 1945	3.66	846
	May 7, 1934	4.48	a1,360		Apr.19-20, 1945	3.65	840
					May 2, 1945	3.67	852
1935	Feb.5-6, 1935	4.57	a1,420		May 19, 1945	4.92	1,660
	June 6, 1935	3.54	780		Aug. 18, 1945	4.95	a1,680
					Sept. 5, 1945	3.95	1,020
1936	Apr. 8, 1936	4.95	a1,680				
				1946	Feb. 11, 1946	3.65	840
1937	Oct. 15, 1936	5.13	1,810		June 25, 1946	4.25	a1,200
	May 21, 1937	4.89	1,640				
	July 29, 1937	4.45	1,340	1947	June 14, 1947	4.22	1,180
	Aug. 5, 1937	5.58	a2,150		July 9, 1947	4.27	1,210
					Aug. 13, 1947	4.57	1,420
1938	May 17, 1938	3.58	a800		Sept.26, 1947	5.12	a1,800
1939	Oct. 7, 1938	3.91	996	1948	Oct. 16, 1947	3.81	a936
	Oct. 12, 1938	3.86	966		June 8, 1948	3.67	852
	Mar. 22, 1939	4.02	1,060				
	Mar. 30, 1939	4.20	1,170	1949	May 19, 1949	3.94	a1,010
	June 21, 1939	4.41	a1,310				
	July 25, 1939	4.22	1,180	1950	June 20, 1950	3.80	a960

a Momentary peak.

Maximum stages and discharges of Grand Lake Stream at Grand Lake Stream, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 8, 1951	4.21	1,210	1955	Nov. 4, 1954	-	940
	Apr10-12, 1951	4.87	1,660		Dec. 7, 1954	-	906
	Apr28-29, 1951	3.89	1,010		Dec. 22, 1954	-	1,380
	May 4-5, 1951	3.72	912		Jan. 21, 1955	-	1,470
	May 15, 1951	3.72	912		Mar. 4, 1955	-	1,210
	June 22, 1951	3.69	894		Mar. 22, 1955	-	1,040
	July 25, 1951	5.16	a1,890		Mar. 31 to Apr.1, 1955	-	1,010
	Aug. 8, 1951	4.44	1,350		Mar. 19, 1955	5.34	2,030
	Aug. 15, 1951	4.74	1,560		June 22, 1955	-	1,420
1952	Mar. 19, 1952	4.19	1,190		Aug. 31, 1955	-	960
	June 12, 1952	6.35	a2,840				
	Aug. 5, 1952	4.85	1,640	1956	July 11, 1956	-	1,340
	Aug. 21, 1952	4.02	1,090		July 17, 1956	-	1,310
					July 24, 1956	5.02	a1,780
1953	June 26, 1953	5.20	a1,920		Aug. 4, 1956	-	1,010
	July 23, 1953	-	1,130				
	Aug. 25, 1953	-	972	1957	Jan. 24, 1957	b4.20	-
					July 6, 1957	3.25	c665
1954	Apr. 24, 1954	-	2,110				
	May 8, 1954	-	1,900	1958	May 9, 1958	5.61	c2,250
	May 19, 1954	5.65	a2,280				
	June 8, 1954	-	930	1959	June 21, 1959	5.20	c1,920
1955	Oct. 18, 1954	-	1,560	1960	June 14, 1960	5.70	c2,320

a Momentary peak.
b Maximum yearly stage (backwater from ice).
c Annual peak only.

200. St. Croix River near Baileyville, Maine

Location.--Lat 45°15'55", long 67°28'35", in township of Baileyville, Washington County, on right bank 700 ft downstream from powerhouse of St. Croix Paper Co. at Grand Falls and 8 miles upstream from village of Woodland.

Drainage area.--1,320 sq mi, approximately.

Gage.--Recording. Datum of gage is 148.8 ft above mean sea level, datum of 1929. All gage heights are referred to same datum.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur frequently.

Bankfull stage.--Not subject to overflow.

Remarks.--Discharge completely regulated. Base for partial-duration series, 6,400 cfs. Only annual peaks shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Apr. 8, 1920	7.9	12,000	1928	Dec. 12, 1927	5.34	6,540
	Apr. 15, 1920	8.8	13,900		Jan. 3, 1928	6.30	8,300
	Apr.30, May 1, 1920	7.2	10,600		Apr. 9, 1928	8.19	12,000
					May 1, 1928	6.03	7,800
1921	Mar. 29, 1921	5.6	7,360		Aug. 21, 1928	5.27	6,540
				1929	Apr. 20, 1929	5.34	6,540
1922	Apr. 13, 1922	5.2	6,540		Apr. 30, 1929	5.99	7,800
	Aug. 29, 1922	5.88	7,900		May 4, 1929	6.90	9,510
1923	May 1, 1923	13.9	23,300	1930	Mar. 14, 1930	6.34	8,370
					Apr. 9, 1930	7.30	10,300
1924	May 3, 1924	5.26	6,470				
				1931	Apr. 13, 1931	5.24	6,360
1925	Mar. 31, 1925	5.01	6,020				
				1932	Apr. 13, 1932	7.12	9,890
1926	Oct. 12, 1925	5.5	6,900		May 5, 1932	5.90	7,620
	Nov. 25, 1925	5.6	7,080				
	May 2, 1926	7.20	10,100	1933	Oct. 29, 1932	-	11,200
					Apr. 9, 1933	-	9,920
1927	Oct. 26, 1926	5.3	6,540		Apr. 18, 1933	-	8,390
	May 30, 1927	5.93	7,620		Apr. 30, 1933	-	6,400
1928	Oct. 21, 1927	5.75	7,440	1934	Apr. 16, 1934	8.38	13,700
	Nov. 6, 1927	5.19	6,360				

Peak stages and discharges of St. Croix River near Baileyville, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Apr. 22, 1935	7.08	10,400	1947	May 6, 1947	8.10	12,800
					June 4, 1947	6.90	9,930
1936	Dec. 1, 1935	5.24	6,920				
	Mar. 23, 1936	9.90	16,900	1948	May 19, 1948	6.39	8,820
	Apr. 9, 1936	6.18	8,690				
				1949	Jan. 6, 1949	5.40	6,790
1937	Dec. 13, 1936	5.31	6,930				
	May 16, 1937	6.18	8,690	1950	Apr. 22, 1950	10.75	19,500
	May 22, 1937	5.34	6,810				
				1951	Nov. 30, 1950	9.90	17,200
1938	May 18, 1938	5.46	7,190		Dec. 13, 1950	10.94	19,900
					Apr. 4, 1951	9.48	16,100
1939	Dec. 12, 1938	5.80	7,760		Apr. 28, 1951	5.92	7,830
	Apr. 24, 1939	7.00	10,300				
				1952	Nov. 9, 1951	5.40	6,830
1940	Apr. 14, 1940	9.89	16,900		Apr. 16, 1952	5.67	7,340
					June 13, 1952	6.32	8,650
1941	Nov. 18, 1940	4.80	5,880				
				1953	Mar. 28, 1953	9.48	16,100
1942	June 18, 1942	5.34	6,600				
				1954	Apr. 19, 1954	11.25	20,800
1943	May 5, 1943	5.14	6,240				
				1955	Dec. 20, 1954	7.43	11,000
1944	Oct. 22, 1943	5.88	7,660				
	Nov. 9, 1943	5.92	7,660	1956	Apr. 18, 1956	6.36	8,570
1945	Apr. 1, 1945	6.50	9,030	1957	May 20, 1957	3.19	3,120
	Apr. 6, 1945	8.05	12,800	1958	Apr. 25, 1958	7.43	11,000
	Apr. 29, 1945	6.57	9,250	1959	June 19, 1959	6.95	9,840
	May 7, 1945	5.82	7,590	1960	Nov. 30, 1959	9.98	17,400
	May 20, 1945	8.06	12,800				
1946	Apr. 29, 1946	5.91	7,850				

MACHIAS RIVER BASIN

215. Machias River at Whitneyville, Maine

Location.--Lat 44°43'25", long 67°31'15", on right bank 800 ft downstream from highway bridge at Whitneyville, Washington County.

Drainage area.--457 sq mi.

Gage.--Nonrecording gage at site 800 ft upstream at different datum Oct. 1, 1905, to Sept. 30, 1921; recording gage at present site and datum since Sept. 21, 1929. Datum of gage is 37.22 ft above mean sea level, datum of 1929.

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

Bankfull stage.--10 ft.

Remarks.--Peak discharge slightly affected by storage. Base for partial-duration series, 3,200 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Apr. 16, 1906	9.90	5,570	1919	May 27, 1919	9.91	5,800
1907	Apr. 25, 1907	9.45	5,080	1920	Apr. 7, 1920	13.10	9,310
1908	May 2, 1908	8.55	4,130				
1909	Sept.30, 1909	14.75	11,500	1921	Dec. 16, 1920	8.80	4,580
1910	Nov. 27, 1909	9.70	5,350				
				1930	Mar. 13, 1930	10.77	5,530
1911	Mar. 30, 1911	9.20	4,800		Apr. 10, 1930	9.01	4,500
1912	June 1, 1912	10.05	5,730				
1913	Oct. 26, 1912	10.75	6,500	1931	Apr. 3, 1931	9.23	4,690
1914	Apr. 10, 1914	10.10	5,790		Apr. 12, 1931	7.58	3,150
1915	May 3, 1915	11.20	7,020		Apr. 28, 1931	8.35	3,890
1916	May 18, 1916	8.85	4,430	1932	Oct. 18, 1931	7.80	3,330
1917	June 18, 1917	11.00	7,000		Apr. 2, 1932	10.65	6,100
1918	Apr. 23, 1918	10.10	6,010		Apr. 13, 1932	9.17	4,690

Peak stages and discharges of Machias River at Whitneyville, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Apr. 20, 1932	7.70	3,240
1933	Oct. 29, 1932	10.73	6,200
	Apr. 6, 1933	10.07	5,590
1934	Oct. 26, 1933	8.23	3,700
	Apr. 4, 1934	10.06	5,590
	Apr. 14, 1934	11.46	7,000
	May 5, 1934	8.05	3,520
	Sept.19, 1934	8.53	3,990
1935	Apr. 17, 1935	9.54	4,990
1936	Nov. 30, 1935	9.17	4,690
	Mar. 14, 1936	16.18	7,600
	Mar. 20, 1936	14.13	10,000
	Apr. 8, 1936	9.52	4,990
1937	Dec. 12, 1936	8.75	4,370
	Mar. 17, 1937	8.70	4,290
1938	Oct. 25, 1937	8.94	4,470
	Nov. 30, 1937	7.49	3,430
	May 17, 1938	7.45	3,360
1939	Dec. 7, 1938	8.60	4,210
	Apr. 22, 1939	10.20	5,700
	Apr. 29, 1939	7.68	3,570
1940	Dec. 4, 1939	7.80	3,630
	Apr. 14, 1940	13.58	9,420
	May 4, 1940	9.41	4,920
1941	Nov.16-17, 1940	7.48	3,430
1942	Mar. 11, 1942	12.50	5,750
	June 17, 1942	9.71	5,640
1943	May 4, 1943	9.16	5,100
	May 14, 1943	8.12	4,020
	Aug. 14, 1943	10.79	6,850
1944	Oct. 22, 1943	8.90	4,800
	Nov. 11, 1943	8.15	4,120
	Nov. 24, 1943	9.07	5,000
	Apr. 26, 1944	7.28	3,320
1945	Nov. 12, 1944	8.23	4,120
	Jan. 3, 1945	8.93	4,800
	Mar. 30, 1945	7.90	3,920
	Apr. 6, 1945	9.34	5,210
	May 19, 1945	9.36	5,310
1946	Nov. 23, 1945	8.80	4,730
	Apr. 28, 1946	8.03	4,010
1947	Feb. 6, 1947	7.30	3,380
	May 6, 1947	11.77	8,010
	June 10, 1947	8.35	4,370
1948	May 19, 1948	10.97	7,070
1949	Jan. 2, 1949	8.20	4,190
	Jan. 7, 1949	8.81	4,740
1950	Apr. 22, 1950	11.48	7,630
1951	Nov. 28, 1950	14.70	11,800
	Jan. 26, 1951	7.77	3,800
	Apr. 4, 1951	9.89	5,850
1952	Nov. 5, 1951	7.50	3,560
	Nov. 9, 1951	9.16	5,070
	Nov. 28, 1951	8.20	4,190
1953	Mar. 27, 1953	11.97	8,210
	Apr. 1, 1953	10.40	6,410
	Apr. 18, 1953	8.50	4,460
1954	Nov. 27, 1953	8.60	4,550
	Dec. 12, 1953	8.26	4,240
	Feb. 23, 1954	7.41	3,480
	Mar. 5, 1954	7.52	3,580
	Apr. 19, 1954	14.56	11,600
	May 11, 1954	8.60	4,550
	Sept.13, 1954	11.01	7,080
1955	Nov. 5, 1954	7.54	3,600
	Dec. 16, 1954	7.65	3,700
	Dec. 20, 1954	8.67	4,610
	Apr. 30, 1955	7.48	3,540
1956	Jan. 15, 1956	-	3,300
	Apr. 18, 1956	9.15	5,060
	May 1, 1956	7.33	3,410
	May 28, 1956	7.66	3,700
1957	Dec. 21, 1956	a6.64	-
	Apr. 7, 1957	6.37	2,680
1958	Jan. 18, 1958	-	4,100
	Jan. 28, 1958	-	4,200
	Apr. 25, 1958	8.80	4,730
	May 1, 1958	8.51	4,470
	May 10, 1958	8.13	4,130
1959	Nov. 30, 1958	-	5,000
	Apr. 4, 1959	10.49	6,510
	June 19, 1959	7.25	3,360
	July 12, 1959	7.10	3,240
1960	Oct. 26, 1959	7.81	3,840
	Nov. 26, 1959	9.57	5,500
	Dec. 14, 1959	10.93	6,990
	Dec. 21, 1959	7.19	3,310
	Jan. 5, 1960	7.18	3,300
	Feb. 15, 1960	-	4,150
	Apr. 6, 1960	9.60	5,530
	May 14, 1960	8.56	4,510

a Backwater from ice.

220. East Machias River near East Machias, Maine

Location.--Lat 44°46'05", long 67°24'30", on left bank just downstream from outlet of Hadley Lake, 3 miles upstream from East Machias, Washington County.

Drainage area.--251 sq mi.

Gage.--Nonrecording. Datum of gage is 34.9 ft above mean sea level, datum of 1929. At datum 1.00 ft higher prior to Oct. 1, 1950.

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

Bankfull stage.--7 ft.

Remarks.--Peak discharge affected by natural storage. 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	Oct. 26, 1926	4.97	1,660	1943	May 5-6, 1943	5.05	1,500
1928	May 3, 1928	5.55	1,950	1944	Nov.26-28, 1943	5.51	1,760
1929	May 24, 1929	6.42	2,170	1945	Apr. 8, 1945	6.63	2,470
1930	Mar. 15, 1930	5.81	2,070				
				1946	Mar. 31, 1946	5.02	1,480
1931	Apr. 6, 1931	5.61	1,790	1947	May 9, 1947	5.55	1,780
1932	Apr. 14, 1932	5.65	2,020	1948	May 24, 1948	6.14	2,150
1933	Apr. 10, 1933	5.85	2,160	1949	Jan. 9, 1949	5.36	1,680
1934	Apr. 18, 1934	6.56	2,730	1950	Apr.25,26, 1950	6.40	2,320
1935	Apr. 23, 1935	6.17	2,260				
				1951	Dec. 15, 1950	9.05	3,660
1936	Mar. 20, 1936	7.31	3,020	1952	Nov. 11, 1951	6.76	1,960
1937	Dec.14,15,1936	5.45	1,820	1953	Mar. 31, 1953	8.31	3,050
1938	Apr.22,23, 1938	4.50	1,270	1954	Apr. 20, 1954	8.73	3,380
1939	Apr. 25, 1939	6.43	2,440	1955	Dec. 22, 1954	6.81	1,930
1940	Apr15-18,1940	6.90	2,750				
				1956	Apr. 21, 1956	7.10	2,170
1941	Nov. 20, 1940	4.50	1,270	1957	Apr. 10, 1957	5.18	1,100
1942	Mar. 14, 1942	6.31	2,370	1958	Feb. 1, 1958	6.50	1,800

NARRAGUAGUS RIVER BASIN

225. Narraguagus River at Cherryfield, Maine

Location.--Lat 44°36'30", long 67°56'15", on left bank at Cherryfield, Washington County, 800 ft upstream from railroad bridge and 0.7 mile downstream from West Branch Narraguagus River.

Drainage area.--232 sq mi.

Gage.--Nonrecording prior to July 1, 1948; recording thereafter. Datum of gage is 44.2 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. The relation is subject to minor shifts.

Bankfull stage.--16 ft.

Remarks.--Peak flow not materially affected by artificial or natural storage. 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)
1948	Apr. 3, 1948	11.40	1,830	1951	Jan. 25, 1951	12.42	2,620
	May 19, 1948	14.90	5,790		Feb. 8, 1951	12.39	2,590
					Mar. 15, 1951	11.50	1,830
1949	Jan. 1, 1949	13.27	3,600		Mar. 21, 1951	11.45	1,790
	Jan. 7, 1949	12.81	3,090		Apr. 5, 1951	12.94	3,140
	Apr. 7, 1949	11.09	1,590				
	Apr. 21, 1949	11.31	1,760	1952	Nov. 4, 1951	12.00	2,230
					Nov. 8, 1951	12.79	2,990
1950	Mar. 30, 1950	11.24	1,700		Nov. 27, 1951	11.13	1,550
	Apr. 6, 1950	11.09	1,590		Jan. 23, 1952	13.22	3,440
	Apr. 22, 1950	13.53	3,920		Mar. 12, 1952	11.88	1,730
					Apr. 7, 1952	11.58	1,890
1951	Nov. 28, 1950	15.81	7,250		June 2, 1952	11.42	1,780

Peak stages and discharges of Narraguagus River at Cherryfield, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 25, 1953	-	a1,870	1957	Jan. 23, 1957	-	2,000
	Feb. 8, 1953	-	a2,090		Mar. 10, 1957	11.75	2,030
	Feb. 16, 1953	-	a2,070		Apr. 7, 1957	11.23	1,620
	Mar. 28, 1953	14.86	5,840				
	Apr. 18, 1953	-	a2,270	1958	Dec. 12, 1957	11.11	1,540
					Jan. 17, 1958	12.13	2,380
1954	Nov. 27, 1953	13.01	3,310		Jan. 27, 1958	11.80	2,070
	Dec. 11, 1953	12.00	2,250		Apr. 8, 1958	11.45	1,790
	Feb. 23, 1954	12.40	2,650		Apr. 24, 1958	13.19	3,530
	Mar. 4, 1954	11.92	2,180		May 9, 1958	11.34	1,700
	Apr. 19, 1954	15.50	6,890				
	Sept.12, 1954	14.29	4,990	1959	Nov. 20, 1958	12.81	3,090
					Jan. 17, 1959	-	1,700
1955	Nov. 4, 1954	11.70	1,990		Jan. 23, 1959	11.72	2,010
	Dec. 16, 1954	-	a1,980		Feb. 5, 1959	-	1,700
	Dec. 19, 1954	-	a2,350		Apr. 3, 1959	15.28	6,520
	Feb. 12, 1955	-	a2,120		July 12, 1959	11.06	1,500
	Mar. 17, 1955	11.06	1,500				
	Mar. 23, 1955	11.46	1,800	1960	Oct. 26, 1959	13.00	3,300
	Mar. 27, 1955	11.70	1,990		Nov. 26, 1959	14.57	5,400
					Dec. 14, 1959	14.00	4,580
1956	Jan. 14, 1956	11.63	1,930		Jan. 4, 1960	11.80	2,070
	Apr. 18, 1956	12.91	3,200		Feb. 15, 1960	-	3,000
	May 1, 1956	11.12	1,540		Apr. 6, 1960	13.88	4,410
	May 28, 1956	11.45	1,780		May 14, 1960	11.60	1,910

a Daily mean discharge.

UNION RIVER BASIN

230. West Branch Union River at Amherst, Maine
(Published as Union River at Amherst prior to Oct. 1, 1913)

Location.--Lat 44°50'25", long 68°22'20", on right bank 200 ft upstream from site of old tannery dam, 0.6 mile upstream from Indian Camp Brook, and 0.7 mile northwest of Amherst, Hancock County.

Drainage area.--Area, 148 sq mi. Length of main stream, 29.4 miles. Average slope above gage, 8.19 ft per mile. Average tributary slope, 51.1 ft per mile. Average land slope, 298 ft per mile. Stream density, 1.10 miles per square mile. Mean altitude of basin, 341 ft.

Gage.--Nonrecording gage at site 1 mile downstream at datum 25 ft lower prior to Oct. 1, 1919; recording gage at present site and datum since July 1929. Altitude of gage is 160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in relation have occurred.

Remarks.--Peak discharge not affected by artificial or natural storage. Only annual peaks are shown prior to 1930. 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)
1909	Sept.29, 1909	12.50	2,050	1932	Apr. 12, 1932	7.14	1,760
1910	Mar. 8, 1910	11.80	1,760				
				1933	Oct. 28, 1932	6.05	1,040
1912	Apr. 24, 1912	11.75	1,740		Apr. 11, 1933	6.86	1,580
1913	Mar. 28, 1913	12.65	2,100				
1914	Apr. 22, 1914	12.85	2,180	1934	Apr. 17, 1934	8.08	2,560
1915	May 1, 1915	12.2	1,920				
				1935	Apr. 22, 1935	7.16	1,830
1916	Apr. 2, 1916	10.3	1,180				
1917	Apr. 7, 1917	12.35	1,980	1936	Mar. 13, 1936	8.30	2,640
1918	Apr. 24, 1918	11.0	1,480		Mar. 19, 1936	9.04	3,580
1919	Oct. 6, 1918	11.0	1,480				
				1937	Dec. 12, 1936	6.19	1,290
1930	Mar. 12, 1930	6.50	1,340				
	Apr. 7, 1930	6.04	1,580	1938	Jan. 29, 1938	6.76	1,270
					Apr. 21, 1938	5.94	1,010
1931	Apr. 12, 1931	6.32	1,200		May 16, 1938	5.94	1,010
	June 9, 1931	5.98	1,010				
				1939	Dec. 7, 1938	6.21	1,220
1932	Apr. 1, 1932	6.50	1,340		Dec. 11, 1938	6.37	1,320

Peak stages and discharges of West Branch Union River at Amherst, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 23, 1939	6.51	1,440	1951	Nov. 27, 1950	7.57	2,090
	Apr. 29, 1939	6.59	1,510		Dec. 9, 1950	6.32	1,310
					Dec. 12, 1950	7.25	1,970
1940	Apr. 13, 1940	9.58	4,140		Feb. 8, 1951	6.43	1,380
	May 5, 1940	6.50	1,440		Apr. 3, 1951	7.19	1,920
1941	Apr.16-17, 1941	5.95	1,040	1952	Jan. 24, 1952	6.48	1,420
1942	Mar. 9, 1942	8.59	3,210	1953	Mar. 28, 1953	7.27	1,990
	Apr. 22, 1942	6.15	1,100		Mar. 30, 1953	7.28	1,990
	June 16, 1942	6.11	1,070		Apr. 18, 1953	5.98	1,090
1943	May 4, 1943	6.10	1,170	1954	Nov. 26, 1953	7.44	2,120
					Dec. 11, 1953	6.35	1,330
1944	Oct. 17, 1943	5.91	1,040		Apr. 18, 1954	7.96	2,560
	Oct. 21, 1943	5.90	1,040		Sept.12, 1954	7.95	2,560
	Nov. 9, 1943	6.50	1,440				
	Nov. 24, 1943	5.98	1,100	1955	Dec. 19, 1954	6.62	1,500
					Apr. 20, 1955	6.37	1,340
1945	Jan. 2, 1945	6.85	1,710				
	Apr. 5, 1945	7.84	2,270	1956	Apr. 17, 1956	6.60	1,490
	May 19, 1945	6.21	1,170				
				1957	Apr. 7, 1957	5.39	718
1946	Mar. 28, 1946	5.93	1,020				
				1958	Apr. 23, 1958	6.73	1,500
1947	Apr. 14, 1947	5.97	1,050		Apr. 30, 1958	6.00	1,100
	May 4, 1947	7.62	2,110				
				1959	Nov. 29, 1958	5.94	1,060
1948	Apr. 3, 1948	6.0	1,050		Apr. 3, 1959	8.07	2,670
	May 18, 1948	6.95	1,640				
				1960	Oct. 25, 1959	7.08	1,830
1949	Jan. 2, 1949	7.03	-		Nov. 25, 1959	7.24	1,960
	Jan. 6, 1949	6.09	1,100		Nov. 29, 1959	7.60	2,250
					Dec. 13, 1959	7.20	1,930
1950	Apr. 23, 1950	7.33	1,910		Apr. 5, 1960	6.97	1,750
1951	Nov. 21, 1950	5.92	1,010				

PENOBSCOT RIVER BASIN

280. West Branch Penobscot River near Medway, Maine

Location.--Lat 45°36'25", long 68°32'25", on left bank just above Nichatou Rapids at Nichatou Island, half a mile upstream from confluence of East and West Branches and half a mile west of Medway, Penobscot County.

Drainage area.--2,120 sq mi, approximately.

Gage.--Recording. Datum of gage 235.6 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs.

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)
1917	June 16, 1917	9.88	25,900	1929	June 4, 1929	6.87	12,400
1918	July 16, 1918	7.11	11,500	1930	Apr. 15, 1930	5.23	6,380
1919	Apr. 26, 1919	8.68	19,900				
1920	May 15, 1920	7.5	14,900	1931	July 13, 1931	5.05	5,800
				1932	Sept.17, 1932	6.16	9,430
1921	Apr. 29, 1921	7.2	a11,900	1933	May 25, 1933	6.21	9,620
1922	June 22, 1922	5.81	7,890	1934	Apr. 16, 1934	5.55	6,090
1923	May 5, 1923	5.82	7,530	1935	Dec. 3, 1934	5.31	5,520
1924	May 2, 1924	5.64	6,740				
1925	Sept.20, 1925	5.32	6,520	1936	May 16, 1936	6.58	20,800
				1937	May 22, 1937	7.00	12,400
1926	May 23, 1926	7.46	14,900	1938	May 21, 1938	5.30	6,240
1927	July 5, 1927	5.44	6,940	1939	May 10, 1939	5.34	6,390
1928	May 27, 1928	9.64	24,100				

a Daily mean discharge.

295. East Branch Penobscot River at Grindstone, Maine

Location.--Lat 45°43'50", long 68°35'20", on left bank 500 ft downstream from Bangor and Aroostook Railroad bridge, half a mile south of Grindstone, Penobscot County, and 9½ miles upstream from confluence with West Branch Penobscot River.

Drainage area.--1,070 sq mi, approximately (including about 240 sq mi drained by Chamberlain Lake through Telos Canal).

Gage.--Nonrecording prior to June 30, 1929; recording thereafter. Datum of gage is 294.74 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--14 ft.

Remarks.--Flow partly regulated by Chamberlain, Telos, Second, and Grand Lakes and Round Pond for log driving and for power since 1942 (combined usable capacity, 6,825,000,000 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)
1903	Mar. 26, 1903	10.04	10,900	1932	Sept.17, 1932	11.37	16,600
1904	May 2, 1904	11.05	13,900	1933	Apr. 18, 1933	11.44	16,600
1905	Apr. 7, 1905	9.0	7,780	1934	Apr. 21, 1934	10.88	14,900
				1935	Apr. 29, 1935	10.32	12,900
1906	May 7, 1906	10.53	12,400				
1907	May 1, 1907	12.40	18,200	1936	Mar. 20, 1936	14.00	26,900
1908	May 2, 1908	11.23	14,600	1937	May 21, 1937	9.64	10,300
1909	Sept.29, 1909	14.3	24,400	1938	Apr. 22, 1938	-	9,860
1910	Apr. 7, 1910	9.3	8,290	1939	May 10, 1939	10.29	12,700
				1940	Apr. 14, 1940	13.77	23,700
1911	May 3, 1911	9.93	9,820				
1912	Apr. 24, 1912	10.92	12,400	1941	Apr. 22, 1941	10.09	12,000
1913	Oct. 26, 1912	12.24	16,700	1942	Apr. 26, 1942	10.31	12,700
1914	May 10, 1914	12.05	15,900	1943	May 13, 1943	10.09	11,600
1915	May 5, 1915	10.14	10,200	1944	Nov. 10, 1943	10.84	13,900
				1945	Apr. 3, 1945	10.54	12,900
1916	May 1, 1916	9.00	7,580				
1917	June 19, 1917	12.65	18,600	1946	Apr. 28, 1946	10.46	12,900
1918	July 9, 1918	11.0	13,800	1947	May 7, 1947	11.48	16,300
1919	Apr. 26, 1919	10.0	10,800	1948	May 19, 1948	10.45	12,600
1920	May 10, 1920	11.30	14,700	1949	Apr. 18, 1949	8.91	8,080
				1950	Apr. 22, 1950	10.80	13,900
1921	Mar. 29, 1921	10.80	13,200				
1922	June 22, 1922	11.4	15,700	1951	Nov. 29, 1950	12.26	19,100
1923	Apr. 30, 1923	16.9	37,000	1952	Apr. 21, 1952	10.05	11,400
1924	May 2, 1924	11.25	14,000	1953	Mar. 31, 1953	12.04	18,300
1925	Apr. 5, 1925	8.4	6,020	1954	Sept.12, 1954	11.91	17,700
				1955	Apr. 16, 1955	9.86	11,200
1926	May 4, 1926	11.25	14,000				
1927	Apr. 24, 1927	10.10	10,500	1956	May 1, 1956	8.73	7,860
1928	Nov. 5, 1927	13.6	22,400	1957	Apr. 22, 1957	8.58	7,470
1929	May 4, 1929	11.6	15,200	1958	Apr. 24, 1958	13.49	24,800
1930	May 4, 1930	9.33	9,670	1959	June 16, 1959	9.30	9,450
				1960	Oct. 26, 1959	10.65	13,800
1931	June 10, 1931	8.77	8,130				

300. Penobscot River near Mattawamkeag, Maine

Location.--Lat 45°34'00", long 68°24'10", on left bank 1,800 ft downstream from Mattaseunk Dam and powerhouse, 1¼ miles upstream from Mattaseunk Brook, and 4¼ miles upstream from Mattawamkeag, Penobscot County.

Drainage area.--3,310 sq mi, approximately (including about 240 sq mi drained by Chamberlain Lake through Telos Canal).

Gage.--Recording. Datum of gage is 191.72 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--Not subject to overflow.

Remarks.--Flow regulated by several reservoirs above station. Only annual peaks are shown.

Peak stages and discharges of Penobscot River near Mattawamkeag, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 15, 1940	9.64	25,500	1951	Nov. 28, 1950	10.65	32,800
				1952	June 8, 1952	8.11	20,000
1941	Apr. 17, 1941	7.79	20,000	1953	Mar. 31, 1953	10.73	35,500
1942	June 16, 1942	9.45	26,400	1954	Sept.13, 1954	11.25	34,600
1943	May 9, 1943	8.45	23,100	1955	May 10, 1955	9.16	27,500
1944	Nov. 10, 1943	8.51	23,500				
1945	May 21, 1945	11.09	40,200	1956	May 1, 1956	7.00	12,800
				1957	Apr. 22, 1957	6.43	11,600
1946	Apr. 28, 1946	8.19	19,800	1958	Apr. 24, 1958	11.62	36,100
1947	May 7, 1947	9.72	27,700	1959	June 19, 1959	7.56	18,600
1948	May 19, 1948	7.99	20,400	1960	May 15, 1960	10.43	36,500
1949	Apr. 15, 1949	6.83	14,500				
1950	Apr. 23, 1950	8.75	21,800				

305. Mattawamkeag River near Mattawamkeag, Maine

Location.--Lat 45°30'20", long 68°18'05", at Gordon Falls, 1 mile upstream from Mattakeunk Stream, 4 miles upstream from Mattawamkeag, Penobscot County, and 4½ miles upstream from mouth.

Drainage area.--Area, 1,400 sq mi, approximately. Area of lakes, reservoirs, and ponds, 40.1 sq mi. Length of main stream, 77.3 miles. Average slope above gage, 4.11 ft per mile.

Gage.--Recording. Altitude of gage is 230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements; subject to minor shifts.

Bankfull stage.--12 ft.

Historical data.--Flood of May 1923 reached a stage 4.5 ft higher than that of Mar. 23, 1936.

Remarks.--Some storage in lakes above station. Base for partial-duration series, 10,000 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Apr. 24, 1935	11.97	20,800	1947	Apr. 15, 1947	8.01	10,500
					May 8, 1947	13.3	23,900
1936	Mar. 23, 1936	15.34	29,200				
	Apr. 9, 1936	8.44	11,400	1948	May 21, 1948	8.95	12,900
1937	Apr. 18, 1937	7.90	10,200	1949	Apr. 18, 1949	7.78	9,950
	May 23, 1937	7.99	10,500				
				1950	Apr. 24, 1950	12.22	21,100
1938	Apr. 22, 1938	8.61	11,900				
				1951	Dec. 1, 1950	11.25	18,600
1939	Dec. 12, 1938	9.08	13,100		Dec. 15, 1950	11.25	18,600
	Apr.30,May 1, 1939	11.00	18,000		Apr. 10, 1951	10.77	17,400
				1952	Apr. 24, 1952	10.03	15,500
1940	Apr.16,17, 1940	13.15	23,600				
	May 6,7, 1940	9.40	13,900	1953	Apr. 3, 1953	12.17	20,900
					Apr. 19, 1953	8.12	10,800
1941	Nov. 18, 1940	7.89	10,200				
	Apr. 22, 1941	9.15	13,400	1954	Dec. 12, 1953	-	10,700
					Apr. 24, 1954	13.15	23,500
1942	Apr. 28, 1942	10.65	17,000		Sept.15, 1954	-	15,700
	June 18,19,1942	9.46	14,100				
				1955	Apr. 21, 1955	11.38	18,900
1943	Apr.29,30,1943	8.96	12,900				
				1956	Apr.19,20,1956	-	13,200
1944	Nov. 13, 1943	8.99	12,900		May 2, 1956	9.30	13,600
1945	Apr. 6, 1945	11.47	19,200	1957	Apr. 25, 1957	7.90	10,200
	May 1, 1945	8.13	10,700	1958	Apr. 26, 1958	13.90	25,400
	May 21, 1945	9.13	13,100	1959	Apr. 11, 1959	9.60	14,400
				1960	Dec. 1, 1959	10.72	17,300
1946	Mar. 31, 1946	8.31	11,200				
	Apr. 30, 1946	9.00	12,900				

310. Mattawamkeag River at Mattawamkeag, Maine

Location.--Lat 45°31'05", long 68°21'00", on downstream side of Maine Central Railroad bridge in the village of Mattawamkeag, Penobscot County, half a mile upstream from mouth.

Drainage area.--1,500 sq mi, approximately.

Gage.--Nonrecording prior to Feb. 22, 1929; recording at site 4 miles upstream at different datum thereafter. All records represent flow at described site. Datum of gage is 185.84 ft above mean sea level, datum of 1929.

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

Bankfull stage.--15 ft.

Remarks.--Some storage in lakes above station. 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)
1903	Mar. 25, 1903	11.6	17,200	1918	Apr. 26, 1918	9.98	12,700
	Apr. 11, 1903	10.1	12,800		May 3, 1918	9.2	10,500
1904	Apr. 14, 1904	10.1	12,800	1919	Nov.22,23,1918	9.6	11,600
	May 3, 1904	11.1	15,900		Apr. 1, 1919	10.16	13,200
	May 15, 1904	11.75	17,900		Apr. 16, 1919	9.94	12,600
					Apr. 26, 1919	9.60	11,600
1905	Apr. 10, 1905	10.15	13,000		May 4, 1919	9.42	11,100
					May 28, 1919	9.40	11,000
1906	May 7, 1906	11.3	16,500				
				1920	Apr. 18, 1920	14.15	26,100
1907	Apr. 25, 1907	14.15	25,200				
				1921	Oct. 5, 1920	9.15	10,400
1908	Apr. 16, 1908	9.21	10,300		Apr. 2, 1921	10.95	15,600
	May 2, 1908	11.65	17,600				
				1922	Apr. 14, 1922	10.23	13,400
1909	Apr. 20, 1909	12.9	21,400		June 24, 1922	11.6	17,700
	Sept.29, 1909	10.5	14,000				
				1923	Apr. 18, 1923	9.8	10,000
1910	Apr. 10, 1910	9.22	10,300		May 1, 1923	19.60	48,900
	Apr. 25, 1910	9.45	11,000				
				1924	May 3, 1924	10.52	14,300
1911	Apr. 20, 1911	9.2	10,300				
	May 2, 1911	9.65	11,500	1925	Apr. 5, 1925	9.29	10,700
1912	Apr. 22, 1912	9.81	12,200	1926	Nov. 19, 1925	9.3	10,800
	June 4, 1912	12.50	20,600		May 6, 1926	13.2	24,300
1913	Nov. 10, 1912	10.80	15,100	1927	Apr. 26, 1927	10.42	14,200
	Mar. 28, 1913	12.1	19,300				
	Apr. 29, 1913	12.70	21,200	1928	Nov. 6, 1927	11.44	17,700
1914	Oct. 29, 1913	9.4	11,000	1929	May 4, 1929	11.32	16,500
	May 11, 1914	12.80	21,600				
				1930	Apr. 15, 1930	8.94	13,700
1915	Apr. 16, 1915	9.23	10,600				
	May 7, 1915	11.27	16,600	1931	Apr. 14, 1931	9.00	13,900
1916	Apr. 22, 1916	8.78	9,370	1932	Apr. 15, 1932	11.7	21,700
					May 5, 1932	7.78	10,700
1917	Apr. 9, 1917	10.0	12,700				
	Apr. 25, 1917	11.51	17,400	1933	Apr. 20, 1933	10.3	17,600
	May 17, 1917	9.20	10,500				
	June 19, 1917	13.8	24,900	1934	Apr. 21, 1934	14.67	30,900

315. Piscataquis River near Dover-Foxcroft, Maine
(Published as Piscataquis River at Lows Bridge near Foxcroft, 1902, and as Piscataquis River near Foxcroft, 1903-34)

Location.--Lat 45°10'35", long 69°18'55", on left bank at Lows Bridge, 1 mile upstream from Black Stream and 4½ miles upstream from Dover-Foxcroft, Piscataquis County.

Drainage area.--Area, 297 sq mi. Area of lakes, reservoirs, and ponds, 6.47 sq mi. Length of main stream, 38.2 miles. Average slope above gage, 25.4 ft per mile.

Gage.--Nonrecording prior to July 20, 1930; recording thereafter. Datum of gage is 358.06 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above by logarithmic plotting.

Banfkull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 4,000 cfs. Only annual peaks are shown prior to 1931.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 14, 1903	7.53	5,140	1937	May 21, 1937	7.89	5,940
1904	May 12, 1904	9.23	7,420				
1905	Apr. 15, 1905	5.28	2,410	1938	Oct. 24, 1937	9.42	8,110
					Nov. 29, 1937	8.50	6,780
1906	Apr. 17, 1906	11.20	10,400		Apr. 21, 1938	6.92	4,400
1907	Apr. 24, 1907	9.67	8,040				
1908	Nov. 7, 1907	11.01	10,100	1939	Dec. 7, 1938	8.18	6,240
1909	Sept.29, 1909	14.93	17,400		Dec. 11, 1938	7.22	4,820
1910	Apr. 1, 1910	6.62	4,010		May 9, 1939	7.59	5,380
1911	Apr.29,30, 1911	6.70	4,110	1940	Apr. 13, 1940	12.79	13,700
1912	Apr. 23, 1912	9.20	7,380		May 10, 1940	10.79	10,200
1913	Apr. 1, 1913	9.02	7,130				
1914	Oct. 21, 1913	8.88	6,930	1941	Apr. 17, 1941	6.60	4,010
1915	May 1, 1915	8.27	6,100				
				1942	Apr. 26, 1942	8.70	6,970
1916	May 18, 1916	8.35	6,200		June 17, 1942	6.90	4,400
1917	June 18, 1917	13.50	14,600				
1918	Oct. 31, 1917	8.16	5,960	1943	Apr. 26, 1943	6.62	4,010
1919	Mar. 29, 1919	7.30	4,710		May 4, 1943	7.11	4,680
1920	Apr. 14, 1920	10.10	8,650		May 8, 1943	6.97	4,540
					May 12, 1943	6.90	4,400
1921	Dec. 15, 1920	9.40	7,600				
1922	June 30, 1922	9.90	8,350	1944	Oct. 17, 1943	9.80	8,640
1923	Apr. 29, 1923	17.67	21,500		Nov. 9, 1943	12.70	13,500
1924	May 2, 1924	10.30	8,690		May 5, 1944	7.14	4,680
1925	Apr. 1, 1925	7.10	4,570				
				1945	Mar. 30, 1945	7.95	5,560
1926	Nov. 16, 1925	9.80	8,040		Apr. 3, 1945	7.71	5,170
1927	Nov. 20, 1926	9.60	7,780		Apr. 6, 1945	7.11	4,440
1928	Oct. 20, 1927	11.60	10,400		Apr. 28, 1945	9.24	7,190
1929	May 3, 1929	11.00	9,600		May 19, 1945	6.87	4,200
1930	Apr. 8, 1930	9.80	8,040				
				1946	Oct. 8, 1945	7.46	4,920
1931	Apr. 12, 1931	6.91	4,320		Mar. 30, 1946	7.02	4,320
	June 10, 1931	8.93	6,870		Apr. 27, 1946	7.80	5,300
1932	Apr. 13, 1932	10.47	8,950	1947	Oct. 1, 1946	12.03	11,600
	Sept.17, 1932	13.50	12,900		Apr. 13, 1947	7.53	4,920
					May 5, 1947	9.68	7,940
1933	Nov. 20, 1932	8.47	6,350				
	Apr. 19, 1933	8.15	5,960	1948	Apr. 2, 1948	8.10	4,680
					May 15, 1948	7.22	4,560
1934	Apr. 13, 1934	8.47	6,360		May 18, 1948	10.76	9,640
	Apr. 18, 1934	9.15	7,310		May 23, 1948	8.19	5,820
	Apr. 21, 1934	9.67	8,040				
	Apr. 25, 1934	7.85	5,560	1949	Jan. 7, 1949	6.00	3,100
1935	Apr. 22, 1935	7.88	5,590	1950	Apr. 21, 1950	11.70	11,100
	Apr. 29, 1935	7.57	5,190				
				1951	Nov. 27, 1950	15.16	17,400
1936	Mar. 13, 1936	15.98	-		Dec. 5, 1950	7.36	4,750
	Mar. 20, 1936	15.84	19,300		Dec. 9, 1950	7.79	5,290
					Dec. 12, 1950	7.21	4,570
1937	Dec. 20, 1936	10.84	-		Apr. 4, 1951	13.19	13,700
	Apr. 29, 1937	8.48	6,750				
	May 16, 1937	7.89	5,940	1952	Nov. 4, 1951	10.59	9,310

Peak stages and discharges of Piscataquis River near Dover-Foxcroft, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 8, 1951	7.17	4,520	1956	Apr. 30, 1956	7.68	5,150
	Apr. 21, 1952	7.13	4,480				
				1957	Apr. 22, 1957	5.91	2,990
1953	Mar. 28, 1953	13.98	15,200				
	Mar. 31, 1953	12.90	13,200	1958	Dec. 21, 1957	11.67	11,000
					Dec. 27, 1957	9.42	7,520
1954	Nov. 26, 1953	12.56	12,500		Apr. 23, 1958	13.00	13,300
	Dec. 7, 1953	7.64	5,100		Apr. 30, 1958	8.23	5,860
	Apr. 18, 1954	11.04	10,000		May 9, 1958	8.41	6,100
	Apr. 23, 1954	9.98	8,370				
	May 6, 1954	7.39	4,790	1959	Oct. 29, 1958	6.78	4,060
	June 28, 1954	7.79	5,290		Apr. 4, 1959	a12.12	-
	Aug. 11, 1954	7.22	4,580		Apr. 7, 1959	7.72	5,200
	Sept.12, 1954	12.93	13,200		June 19, 1959	7.76	5,250
1955	Nov. 4, 1954	7.02	4,340	1960	Oct. 25, 1959	9.20	7,190
	Dec. 19, 1954	10.40	9,020		Nov. 26, 1959	8.92	6,800
	Apr. 16, 1955	10.75	9,560		Nov. 29, 1959	8.42	6,120
	Apr. 20, 1955	8.60	6,360		Apr. 6, 1960	7.60	5,050
					Apr. 19, 1960	7.81	5,310
1956	Apr. 18, 1956	6.83	4,120		May 14, 1960	7.49	4,910

a Backwater from ice.

330. Sebec River at Sebec, Maine

Location.--Lat 45°16'10", long 69°06'45", on right bank at Sebec, Piscataquis County, 1,000 ft downstream from highway bridge and dam at outlet of Sebec Lake.

Drainage area.--327 sq mi.

Gage.--Recording. Datum of gage is 296.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended above on basis of velocity-area studies.

Bankfull stage.--6 ft.

Remarks.--Flow partly regulated by Sebec Lake and Wilson Pond (combined usable capacity, 2,901,000,000 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)
1925	Apr. 2, 1925	6.70	3,230	1943	May 8,9, 1943	6.65	3,020
				1944	Nov. 10, 1943	7.55	4,120
1926	Nov. 16, 1925	7.25	3,760	1945	Apr. 3, 1945	7.42	3,700
1927	May 31, 1927	6.17	2,830				
1928	May 28, 1928	7.20	3,630	1946	Apr. 28, 1946	5.82	2,440
1929	May 6, 1929	7.49	3,870	1947	May 8, 1947	9.25	5,210
1930	Apr. 13, 1930	6.63	3,150	1948	May 19, 1948	8.10	4,490
				1949	Apr. 10, 1949	4.72	1,850
1931	June 11, 1931	7.17	3,650	1950	Apr. 23, 1950	9.24	5,410
1932	Sept.17, 1932	8.00	4,340				
1933	Nov. 22, 1932	6.95	3,480	1951	Nov. 29, 1950	10.19	6,210
1934	Apr. 21, 1934	8.40	4,780	1952	Nov. 9, 1951	7.27	3,710
1935	Apr. 30, 1935	7.42	3,880	1953	Mar. 31, 1953	10.58	6,740
				1954	Apr. 24, 1954	9.16	5,240
1936	Mar. 20, 1936	14.46	11,400	1955	Apr. 20, 1955	8.04	4,170
1937	May 21, 1937	6.42	2,970				
1938	Apr. 22, 1938	6.75	3,330	1956	May 1, 1956	6.55	2,920
1939	May 9, 1939	7.43	3,900	1957	Apr. 26, 1957	4.31	1,350
1940	Apr. 15, 1940	8.91	5,390	1958	Apr. 24, 1958	9.60	5,680
				1959	Apr. 12, 1959	6.95	3,300
1941	Apr. 18, 1941	5.71	2,430	1960	Nov. 30, 1959	6.91	3,280
1942	Apr. 27, 1942	7.63	3,710				

335. Pleasant River near Milo, Maine
(Published as "at Milo" prior to 1931)

Location.--Lat 45°17'05", long 69°00'25", on left bank 2 miles northeast of Milo, Piscataquis County, and 8¼ miles upstream from mouth.

Drainage area.--Area, 322 sq mi. Area of lakes, reservoirs, and ponds, 11.2 sq mi. Length of main stream, 38.9 miles. Average slope above gage, 32.7 ft per mile.

Gage.--Nonrecording prior to June 17, 1929, at site 2 miles downstream at datum 32 ft lower; recording thereafter. Altitude of gage is 302 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs.

Bankfull stage.--14 ft.

Remarks.--Flow partly regulated by power development at Brownville and by small storage dams above station. Base for partial-duration series, 3,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Oct. 1, 1920	7.3	9,420
	Dec. 17, 1920	7.5	5,400
	Mar. 28, 1921	5.4	4,670
	Apr. 17, 1921	5.2	4,180
	Apr. 25, 1921	6.30	4,100
1922	Oct. 14, 1921	5.3	4,420
	Apr. 12, 1922	5.7	5,420
	June 19, 1922	5.50	4,920
	June 23, 1922	5.80	5,670
	June 30, 1922	7.65	10,300
1923	Apr. 30, 1923	14.3	24,400
	May 10, 1923	5.8	4,840
1924	May 2, 1924	7.15	7,680
	May 14, 1924	5.4	3,890
1925	Mar. 29, 1925	5.6	4,420
1926	Nov. 17, 1925	8.15	10,100
	May 4, 1926	6.3	6,500
1927	Nov. 20, 1926	6.50	7,000
	May 28, 1927	5.6	4,820
1928	Oct. 21, 1927	6.1	6,020
	Nov. 5, 1927	6.8	7,780
	Dec. 9, 1927	6.5	7,000
	Apr. 9, 1928	9+	7,000
	May 7, 1928	5.2	3,920
	May 25, 1928	6.3	6,500
1929	Apr. 18, 1929	5.2	3,920
	Apr. 30, 1929	5.9	5,540
	May 4, 1929	7.45	9,470
1930	Apr. 8, 1930	6.16	5,650
	May 4, 1930	5.31	3,920
	May 28, 1930	5.69	4,660
1931	May 24, 1931	5.53	4,260
	June 10, 1931	7.23	7,310
1932	Apr. 13, 1932	7.62	8,630
	Apr. 23, 1932	5.30	3,960
	Sept.17, 1932	12.99	22,100
1933	Apr. 18, 1933	6.05	5,180
	Apr. 27, 1933	5.26	3,730
	May 4, 1933	6.07	5,380
1934	Apr. 14, 1934	5.80	4,780
	Apr. 18, 1934	6.57	6,420
	Apr. 21, 1934	7.03	7,300
	Apr. 25, 1934	6.21	5,580
1935	Apr. 22, 1935	5.82	4,780
	Apr. 29, 1935	6.20	5,580
1936	Mar. 13, 1936	9.42	13,000
	Mar. 20, 1936	13.52	23,400
	Apr. 7, 1936	5.94	5,080
1937	Apr. 29, 1937	5.74	4,580
	May 16, 1937	6.07	5,340
	May 21, 1937	6.08	5,340
1938	Oct. 24, 1937	7.04	5,500
	Apr. 21, 1938	5.98	5,090
1939	Dec. 7, 1938	7.21	6,930
	May 10, 1939	6.10	5,520
1940	Apr. 13, 1940	11.02	17,000
	May 4, 1940	8.52	10,800
1941	Apr. 17, 1941	5.30	3,780
1942	Apr. 26, 1942	6.71	6,550
1943	Apr. 27, 1943	5.38	3,950
	May 8, 1943	5.87	4,760
	May 13, 1943	5.88	4,860
1944	Oct. 17, 1943	9.40	13,000
	Nov. 10, 1943	9.8	14,000
	May 6, 1944	5.34	3,860
1945	Apr. 2, 1945	6.30	5,900
	Apr. 6, 1945	5.85	5,010
	Apr. 28, 1945	6.13	5,500
	May 16, 1945	5.35	4,070
	May 19, 1945	5.42	4,160
1946	Oct. 8, 1945	5.21	3,800
	Apr. 28, 1946	5.60	4,530
1947	Apr. 13, 1947	5.30	3,840
	May 5, 1947	7.88	9,380
	May 7, 1947	8.14	9,850
1948	May 19, 1948	7.89	9,370
1949	Nov. 11, 1948	5.39	4,090
1950	Apr. 22, 1950	8.65	11,200
1951	Nov. 27, 1950	10.44	15,600
	Dec. 5, 1950	5.79	4,880
	Dec. 10, 1950	6.36	6,020
	Dec. 12, 1950	6.06	5,420
	Apr. 4, 1951	8.86	11,700
	Apr. 26, 1951	5.36	4,130
1952	Nov. 4, 1951	6.03	5,360
	Dec. 7, 1951	5.50	4,380
	Apr. 21, 1952	5.84	5,000
	June 2, 1952	5.30	4,030

Peak stages and discharges of Pleasant River near Milo, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 28, 1953	9.72	13,800	1958	Dec. 21, 1957	8.07	9,780
					Dec. 27, 1957	6.35	6,000
1954	Nov. 26, 1953	8.95	11,900		Apr. 23, 1958	9.83	14,100
	Dec. 8, 1953	5.33	4,080		Apr. 30, 1958	6.40	6,100
	Apr. 19, 1954	8.00	9,610		May 9, 1958	5.95	5,200
	Apr. 23, 1954	8.06	9,750				
	May 7, 1954	5.63	4,610	1959	Apr. 5, 1959	a7.28	-
	Sept.12, 1954	7.47	8,360		Apr. 7, 1959	5.71	4,760
					June 19, 1959	6.75	6,810
1955	Dec. 19, 1954	6.77	6,850		June 29, 1959	5.41	4,220
	Apr. 16, 1955	7.10	7,540				
	May 6, 1955	5.48	4,340	1960	Oct. 26, 1959	7.39	8,180
1956	Apr. 30, 1956	5.86	5,030		Nov. 26, 1959	5.77	4,710
					Nov. 29, 1959	6.72	6,700
1957	Apr. 22, 1957	4.76	3,120		Apr. 6, 1960	-	4,500
					Apr. 19, 1960	5.84	4,850
1958	Nov. 20, 1957	5.34	4,100		June 25, 1960	5.25	3,730

a Backwater from ice.

340. Piscataquis River at Medford, Maine

Location.--Lat 45°15'40", long 68°52'05", on left bank 1¾ miles southwest of Medford, Piscataquis County, and 3½ miles downstream from Pleasant River.

Drainage area.--1,161 sq mi.

Gage.--Nonrecording prior to Aug. 14, 1929, at site 1¾ miles downstream and at different datum; recording thereafter. Datum of gage is 248.68 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--11 ft.

Historical data.--Maximum stage known since at least 1846, 20.8 ft May 1, 1923, from floodmarks at original site.

Remarks.--Some regulation for power and log driving by lakes above station. Base for partial-duration series, 13,000 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	May 1, 1923	20.8	-	1940	Dec. 4, 1939	7.43	13,300
					Apr. 14, 1940	12.76	38,100
1925	Mar. 30, 1925	9.27	13,700		May 4, 1940	10.22	25,700
1926	Nov. 17, 1925	12.10	23,600	1941	Apr. 17, 1941	7.02	11,800
1927	Nov. 20, 1926	11.3	20,700				
1928	Oct. 21, 1927	12.8	26,200	1942	Apr. 26, 1942	8.67	17,700
1929	May 4, 1929	13.3	28,000				
				1943	May 13, 1943	7.50	12,800
1930	Apr. 8, 1930	8.97	19,400				
				1944	Oct. 17, 1943	-	15,700
1931	June 10, 1931	9.00	20,200		Nov. 10, 1943	10.78	26,900
1932	Apr. 13, 1932	9.68	23,600	1945	Apr. 2, 1945	8.47	16,900
	Sept.18, 1932	12.03	35,000		Apr. 28, 1945	8.55	17,300
1933	Nov. 21, 1932	7.97	15,700	1946	Apr. 28, 1946	7.49	12,800
	Apr. 19, 1933	8.24	16,600				
				1947	Oct. 1, 1946	7.57	13,200
1934	Apr. 21, 1934	9.50	22,600		May 7, 1947	9.82	22,400
1935	Apr. 22, 1935	8.25	16,600	1948	May 19, 1948	9.99	23,300
1936	Mar. 20, 1936	15.07	50,200	1949	Jan. 7, 1949	6.46	9,020
	Apr. 7, 1936	8.16	16,700				
				1950	Apr. 22, 1950	10.86	27,100
1937	May 16, 1937	-	14,500				
	Apr. 30, 1937	-	14,000	1951	Nov. 28, 1950	12.72	35,500
					Dec. 6, 1950	7.74	13,800
1938	Oct. 24, 1937	8.35	17,600		Dec. 10, 1950	8.10	15,300
	Nov. 29, 1937	7.82	15,000		Dec. 13, 1950	8.08	15,200
	Apr. 21, 1938	7.57	14,200		Apr. 4, 1951	11.09	30,000
1939	Dec. 7, 1938	9.05	20,200	1952	Nov. 4, 1951	8.20	16,300
	May 9, 1939	7.92	15,400				

Peak stages and discharges of Piscataquis River at Medford, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 28, 1953	13.06	41,900	1958	Dec. 22, 1957	-	28,000
	Mar. 31, 1953	11.76	34,100		Dec. 28, 1957	8.44	17,700
					Apr. 24, 1958	11.88	36,300
1954	Nov. 26, 1953	10.41	26,600		Apr. 30, 1958	8.45	17,700
	Dec. 8, 1953	7.43	13,000		May 9, 1958	7.90	15,200
	Apr. 19, 1954	10.50	27,000				
	Sept.12, 1954	9.91	24,000	1959	Apr. 7, 1959	7.86	15,000
					June 19, 1959	7.71	14,400
1955	Dec. 20, 1954	8.90	19,400				
	Apr. 16, 1955	9.81	22,300	1960	Oct. 26, 1959	8.52	18,000
					Nov. 26, 1959	-	16,400
1956	Apr. 30, 1956	7.81	13,500		Nov. 29, 1959	-	18,600
					Apr. 6, 1960	7.63	14,000
1957	Apr. 22, 1957	5.84	6,810		Apr. 19, 1960	8.10	15,700

345. Penobscot River at West Enfield, Maine
(Published as "at Montaque " 1901-3)

Location.--Lat 45°14'15", long 68°39'10", on left bank at highway bridge, 1,000 ft downstream from Piscataquis River and 1 mile southwest of West Enfield, Penobscot County.

Drainage area.--6,600 sq mi, approximately (including about 240 sq mi drained by Chamberlain Lake through Telos Canal).

Gage.--Nonrecording prior to Dec. 11, 1912; recording thereafter. Datum of gage is 125.94 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 88,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--Not subject to overflow.

Remarks.--Flow regulated by 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)
1866	1866	-	a96,000	1931	June 10, 1931	11.78	44,300
				1932	Apr. 13, 1932	15.40	69,500
1901	Apr. 10, 1901	-	b115,000	1933	Apr. 19, 1933	13.56	56,600
1902	Mar. 31, 1902	15.25	75,900	1934	Apr. 21, 1934	17.20	83,900
1903	Mar. 25, 1903	13.90	64,800	1935	Apr. 23, 1935	14.23	60,800
1904	May 1, 1904	12.60	54,500				
1905	Apr. 12, 1905	10.00	35,400	1936	Mar. 21, 1936	22.03	125,000
				1937	May 22, 1937	12.44	48,200
1906	May 11, 1906	13.55	62,000	1938	Apr. 22, 1938	11.43	41,900
1907	May 2, 1907	17.25	92,600	1939	May 10, 1939	12.80	51,000
1908	May 2, 1908	14.65	70,900	1940	Apr. 14, 1940	20.65	113,000
1909	Sept.30, 1909	18.00	85,900				
1910	Apr. 28, 1910	10.95	39,600	1941	Apr. 17, 1941	11.59	43,100
				1942	Apr. 27, 1942	13.59	56,600
1911	May 2, 1911	11.00	39,800	1943	May 13, 1943	12.10	46,100
1912	Apr. 24, 1912	14.60	62,900	1944	Nov. 10, 1943	14.90	65,700
1913	Nov. 9, 1912	15.2	66,800	1945	Apr. 6, 1945	14.35	62,200
1914	May 10, 1914	14.8	67,300				
1915	May 2, 1915	12.90	53,800	1946	Apr. 28, 1946	12.48	48,900
				1947	May 7, 1947	16.62	79,100
1916	Apr. 19, 1916	10.40	36,700	1948	May 19, 1948	14.57	63,600
1917	June 19, 1917	17.7	87,900	1949	Apr. 20, 1949	9.66	31,900
1918	May 2, 1918	11.2	40,700	1950	Apr. 23, 1950	16.64	81,100
1919	Apr. 26, 1919	11.91	45,000				
1920	Apr. 15, 1920	15.75	72,300	1951	Nov. 28, 1950	18.23	94,600
				1952	Apr. 21, 1952	12.74	50,700
1921	Mar. 29, 1921	12.85	51,400	1953	Apr. 1, 1953	17.90	91,600
1922	June 23, 1922	14.15	60,400	1954	Apr. 24, 1954	16.88	83,000
1923	May 1, 1923	25.15	c153,000	1955	Apr. 17, 1955	14.84	70,000
1924	May 3, 1924	13.20	53,800				
1925	Apr. 5, 1925	10.05	33,800	1956	May 1, 1956	12.21	47,000
				1957	Apr. 23, 1957	9.19	29,000
1926	May 5, 1926	15.15	67,500	1958	Apr. 24, 1958	19.22	104,000
1927	Nov. 20, 1926	11.38	41,800	1959	June 20, 1959	d15.4	50,300
1928	Nov. 6, 1927	14.2	60,800	1960	Nov. 30, 1959	14.26	62,000
1929	May 4, 1929	15.28	68,700				
1930	Apr. 9, 1930	12.68	50,300				

a Peak discharge at Treat's Falls, above Bangor; 4th largest since at least 1933. b Third largest since 1875. c Largest since at least 1833. d Occurred Apr. 7, 1959; backwater from ice.

350. Passadumkeag River at Lowell, Maine

Location.--Lat 45°11'00", long 68°28'25", on right bank at Lowell, Penobscot County, half a mile downstream from dam and highway bridge and 10 miles upstream from mouth.

Drainage area.--299 sq mi.

Gage.--Nonrecording prior to Dec. 1, 1921; recording thereafter. At site 2,000 ft upstream at different datum Oct. 1, 1917, to Nov. 30, 1921. Datum of gage is 151.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 1,300 cfs. Only annual peaks are shown prior to 1922 and subsequent to 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	June 24, 1916	3.90	1,140
1917	Apr. 26, 1917	5.84	2,490
1918	May 1, 1918	3.37	1,570
1919	Nov. 21, 1918	3.50	1,710
1920	Apr. 20, 1920	4.81	3,400
1921	Apr. 25, 1921	4.25	2,680
1922	Apr.13-14, 1922	4.45	1,500
	June 24, 1922	5.15	1,720
1923	May 2, 1923	9.4	5,680
1924	Apr. 26, 1924	4.40	1,520
	May 26, 1924	-	1,370
1925	Apr. 1, 1925	4.28	1,450
1926	May 5, 1926	6.26	2,910
1927	June 1, 1927	4.30	1,460
1928	Nov. 9, 1927	4.50	1,580
	Dec. 10, 1927	-	1,370
	Apr. 14, 1928	4.78	1,790
	May 3, 1928	4.12	1,340
1929	Apr. 30, 1929	4.86	1,860
	June 1, 1929	4.18	1,400
1930	Apr.9-10, 1930	-	1,900
	Apr. 18, 1930	5.23	2,110
1931	Apr. 14, 1931	4.54	1,560
	June 13, 1931	4.13	1,320
1932	Apr. 13, 1932	5.00	1,990
	May 5, 1932	4.50	1,640
1933	Apr. 19, 1933	5.23	2,140
1934	Apr. 21, 1934	6.50	3,160
1935	Apr. 23, 1935	5.66	2,520
1936	Mar. 22, 1936	7.51	4,020
1937	May 26, 1937	4.37	1,540
1938	May 18, 1938	4.45	1,600
1939	Dec. 12, 1938	4.60	1,710
	Apr.28,29, 1939	5.16	2,140
1940	Apr.15,16, 1940	6.76	3,400
1941	Apr.18-20, 1941	4.28	1,500
1942	Apr. 26, 1942	5.06	1,990
	June 20, 1942	4.43	1,600
1943	May 14, 1943	4.75	1,800
1944	Nov. 14, 1943	4.35	1,490
1945	Apr. 6, 1945	6.02	2,720
	Apr. 30, 1945	4.43	1,540
	May 19, 1945	5.42	2,240
1946	Mar. 30, 1946	4.08	1,340
1947	Apr. 15, 1947	4.17	1,440
	May 8, 1947	6.37	3,110
	June 6, 1947	4.44	1,560
1948	May 21, 1948	4.92	1,910
1949	Apr. 21, 1949	3.90	1,280
1950	Apr. 24, 1950	5.61	2,440
1951	Dec. 1, 1950	5.71	2,520
1952	Apr. 12, 1952	4.37	1,570
1953	Mar. 31, 1953	5.89	2,670
	Apr. 19, 1953	4.88	1,900
	Apr. 28, 1953	4.25	1,500
	May 20, 1953	4.12	1,410
1954	Dec. 12, 1953	-	1,680
	Apr. 24, 1954	6.77	3,420
	Sept.15, 1954	-	2,360
1955	Dec. 21, 1954	-	1,340
	Apr. 19, 1955	5.72	2,530
1956	Mar. 17, 1956	4.92	-
	Apr. 21, 1956	4.56	1,690
	May 2, 1956	-	1,640
1957	Apr. 9, 1957	a3.72	948
1958	Apr. 25, 1958	5.50	2,350
1959	Apr. 6, 1959	5.34	2,230
1960	Nov. 30, 1959	5.93	2,710

a Occurred Jan. 2, 1957; backwater from ice.

360. Penobscot River at Passadumkeag, Maine

Location.--Lat 45°10'55", long 68°37'20", on left bank at Passadumkeag, Penobscot County, at head of Passadumkeag Rips, 1,200 ft downstream from Passadumkeag River.

Drainage area.--7,000 sq mi, approximately (including about 240 sq mi drained by Chamberlain Lake through Telos Canal).

Gage.--Recording. Datum of gage is 123.6 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 81,100 cfs.

Bankfull stage.--12 ft.

Historical data.--See Penobscot River at West Enfield, Maine.

Remarks.--Flow regulated by several 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)
1939	May 10, 11, 1939	9.28	52,800	1949	Apr. 20, 1949	7.49	33,500
1940	Apr. 14, 1940	13.62	126,000	1950	Apr. 23, 1950	11.30	84,000
1941	Apr. 17, 1941	8.53	43,600	1951	Nov. 28, 1950	12.0	97,000
1942	Apr. 27, 1942	9.68	57,500	1952	Apr. 21, 1952	9.17	52,800
1943	May 13, 1943	8.85	47,000	1953	Apr. 1, 1953	12.02	97,400
1944	Nov. 11, 1943	10.17	63,400	1954	Apr. 24, 1954	11.56	88,200
1945	Apr. 6, 1945	10.15	67,500	1955	Apr. 17, 1955	10.35	71,600
1946	Apr. 28, 1946	9.02	50,600	1956	May 1, 1956	8.87	48,900
1947	May 7, 1947	11.34	84,000	1957	Apr. 23, 1957	7.31	31,400
1948	May 19, 1948	10.13	66,000	1958	Apr. 24, 1958	12.81	113,000

365. Kenduskeag Stream near Kenduskeag, Maine

Location.--Lat 44°53'50", long 68°53'00", on right bank 300 ft upstream from highway bridge, 1.8 miles downstream from Black Stream, and 2.9 miles south of Kenduskeag, Penobscot County.

Drainage area.--Area, 178 sq mi. Area of lakes, reservoirs, and ponds, 0.34 sq mi. Length of main stream, 28.0 miles. Average slope above gage, 11.9 ft per mile.

Gage.--Recording. Altitude of gage is 97 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,400 cfs.

Bankfull stage.--9 ft.

Remarks.--An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 miles above station. During high stages of Souadabscook Stream, part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream, all flow continues down its own channel. On the basis of current-meter measurements made at various times, the maximum amount of water diverted into basin is about 7.5 percent of the total flow of Kenduskeag Stream when flows are above 900 cfs. 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)
1942	Mar. 11, 1942	12.56	3,420	1945	Dec. 1, 1944	8.12	2,460
	Apr. 20, 1942	8.43	2,420		Mar. 30, 1945	10.40	3,600
	June 17, 1942	7.69	1,960		Apr. 28, 1945	7.46	2,050
					May 15, 1945	7.94	2,250
1943	Apr. 21, 1943	6.44	1,600	1946	Mar. 28, 1946	6.69	1,660
1944	Oct. 18, 1943	9.74	3,330				
	Nov. 10, 1943	9.41	3,160	1947	May 5, 1947	8.06	2,350
	Nov. 24, 1943	6.70	1,750		June 4, 1947	7.26	1,950
	Apr. 12, 1944	8.24	2,510				

Peak stages and discharges of Kenduskeag Stream near Kenduskeag, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 22, 1948	9.07	2,350	1954	June 29, 1954	8.84	2,840
	May 16, 1948	6.86	1,750		Sept.12, 1954	14.83	6,440
	May 19, 1948	11.15	4,040				
	May 23, 1948	6.90	1,750	1955	Nov. 4, 1954	7.80	2,280
					Dec. 16, 1954	7.85	2,300
1949	Jan. 2, 1949	7.02	1,810		Dec. 20, 1954	9.20	3,050
	Jan. 7, 1949	7.63	2,120		Apr. 8, 1955	8.30	2,540
					Apr. 16, 1955	8.08	2,420
1950	Apr. 7, 1950	8.36	2,480				
	Apr. 22, 1950	9.23	2,960	1956	Jan. 15, 1956	7.10	1,910
					Apr. 18, 1956	9.97	3,490
1951	Dec. 6, 1950	6.64	1,640		Apr. 30, 1956	6.95	1,840
	Dec. 13, 1950	8.38	2,490				
	Apr. 4, 1951	11.22	4,040	1957	Nov. 23, 1956	5.83	1,310
	Apr. 27, 1951	6.90	1,750				
				1958	Dec. 22, 1957	8.21	2,500
1952	Nov. 4, 1951	7.20	1,900		Apr. 8, 1958	8.24	2,700
	Nov. 8, 1951	6.73	1,680		Apr. 17, 1958	7.79	2,430
	Apr. 7, 1952	9.01	2,840		Apr. 24, 1958	8.94	3,120
					Apr. 30, 1958	6.74	1,850
1953	Jan. 26, 1953	8.80	2,720		May 13, 1958	6.32	1,640
	Mar. 28, 1953	12.14	4,440				
	Apr. 15, 1953	6.47	1,600	1959	Oct. 29, 1958	6.73	1,840
	Apr. 18, 1953	7.42	2,080		Apr. 4, 1959	14.24	6,380
1954	Nov. 26, 1953	9.24	3,070	1960	Oct. 26, 1959	7.30	2,140
	Dec. 8, 1953	7.96	2,360		Nov. 26, 1959	8.83	3,060
	Apr. 9, 1954	7.11	1,920		Nov. 29, 1959	8.75	3,010
	Apr. 19, 1954	12.34	4,910		Dec. 14, 1959	8.04	2,580
	May 7, 1954	6.70	1,720		Apr. 6, 1960	a12.85	5,000

a Backwater from ice.

370. Kenduskeag Stream near Bangor, Maine

Location.--Lat 44°51'40", long 68°49'55", on downstream side of bridge on Route 15 just below Six Mile Falls and 6 miles northwest of Bangor, Penobscot County.

Drainage area.--195 sq mi.

Gage.--Nonrecording. Altitude of gage is 79 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs and extended above by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 7.3 miles above station. During high stages of Souadabscook Stream, part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream, all flow continues down its own channel. On the basis of current-meter measurements made at various times, the maximum amount of water diverted into basin is about 7.5 percent of the total flow of Kenduskeag Stream when flows are above 900 cfs. 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)
1909	Mar. 31, 1909	9.02	4,730	1915	May 2, 1915	8.30	3,770
	Apr. 15, 1909	10.45	6,300		July 10, 1915	7.84	3,360
	Sept.30, 1909	9.66	5,440				
				1916	Apr. 2, 1916	8.00	3,500
1910	Nov. 27, 1909	5.65	1,550				
				1917	Dec. 2, 1916	7.8	3,320
1911	Apr. 12, 1911	7.87	3,470		Apr. 8, 1917	9.65	5,400
					June 13, 1917	8.0	3,600
1912	June 1, 1912	7.15	2,740		June 18, 1917	8.43	4,070
1913	Oct. 26, 1912	7.57	3,110	1918	Apr. 4, 1918	8.92	4,610
	Mar. 21, 1913	8.14	3,630		July 15, 1918	7.7	3,270
1914	Apr. 11, 1914	8.65	4,100	1919	Oct. 7, 1918	7.2	2,750
	Apr. 21, 1914	9.35	4,800		Mar. 23, 1919	8.60	4,300

380. Sheepscot River at North Whitefield, Maine

Location.--Lat 44°13'20", long 69°35'40", on left bank at North Whitefield, Lincoln County, just upstream from highway bridge and half a mile downstream from Pleasant Pond Brook.

Drainage area.--Area, 148 sq mi. Area of lakes, reservoirs, and ponds, 4.84 sq mi. Length of main stream, 26.7 miles. Average slope above gage, 14.5 ft per mile.

Gage.--Recording. Datum of gage is 101.1 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur.

Bankfull stage.--7 ft.

Remarks.--Peak discharge not materially affected by storage. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 6, 1938	5.69	1,430	1951	Mar. 15, 1951	5.35	1,220
	Dec. 11, 1938	5.40	1,250		Mar. 20, 1951	5.60	1,350
	Apr. 20, 1939	6.34	1,910		Apr. 6, 1951	5.73	1,430
					Apr. 9, 1951	5.52	1,310
1940	Apr. 13, 1940	11.81	5,260		Apr. 26, 1951	5.18	1,120
	Apr. 24, 1940	5.60	1,370				
	May 4, 1940	5.88	1,570	1952	Nov. 7, 1951	5.54	1,320
					Dec. 21, 1951	5.33	1,200
1941	Nov. 15, 1940	5.22	1,130		Jan. 23, 1952	5.86	1,510
					Apr. 3, 1952	5.38	1,230
1942	Mar. 10, 1942	8.16	3,460		Apr. 6, 1952	6.35	1,820
1943	May 13, 1943	5.43	1,260	1953	Mar. 27, 1953	8.63	3,670
					Apr. 17, 1953	5.82	1,480
1944	Nov. 9, 1943	5.64	1,310				
	Apr. 13, 1944	6.06	1,640	1954	Nov. 26, 1953	6.05	1,550
					Dec. 7, 1953	6.30	1,710
1945	Nov. 30, 1944	6.09	1,670		Mar. 4, 1954	6.00	1,520
	Jan. 2, 1945	6.48	1,950		Apr. 18, 1954	7.52	2,560
	Apr. 5, 1945	6.33	1,870		Sept.12, 1954	9.21	4,010
	May 19, 1945	5.32	1,170				
	May 30, 1945	5.42	1,230	1955	Dec. 19, 1954	6.88	2,100
					Feb. 12, 1955	6.27	1,690
1946	Mar. 9, 1946	5.21	1,110				
				1956	Jan. 13, 1956	5.37	1,160
1947	Feb. 5, 1947	5.90	1,390		Apr. 17, 1956	6.54	1,930
	May 4, 1947	5.54	1,220				
				1957	Jan. 23, 1957	5.08	1,010
1948	May 18, 1948	7.12	2,050				
	May 22, 1948	6.36	1,660	1958	Apr. 7, 1958	5.37	1,160
					Apr. 23, 1958	5.87	1,460
1949	Jan. 6, 1949	5.95	1,420				
	Mar. 29, 1949	5.39	1,180	1959	Nov. 29, 1958	5.34	1,140
					Apr. 3, 1959	8.65	3,650
1950	Apr. 6, 1950	5.31	1,140				
				1960	Nov. 25, 1959	5.68	1,350
1951	Nov. 27, 1950	6.08	1,640		Nov. 29, 1959	5.85	1,450
	Dec. 12, 1950	5.84	1,490		Dec. 13, 1959	5.76	1,400
	Feb. 8, 1951	6.04	1,610		Apr. 6, 1960	8.20	2,970

390. Moose River near Rockwood, Maine

Location.--Lat 45°39'40", long 69°48'50", on left bank 3 miles upstream from mouth and 4 miles southwest of Rockwood, Somerset County.

Drainage area.--708 sq mi.

Gage.--Nonrecording at site 0.9 mile downstream at datum 10 ft lower prior to Oct. 1, 1921; recording at described site and datum thereafter. Altitude of gage is 1,035 ft (from topographic map).

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

Remarks.--Flow partly regulated each year by log driving dams during period April to June. 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	Mar 27,28, 1903	7.45	5,920	1912	May 4, 1912	8.6	7,760
1904	May 13, 1904	9.1	8,560				
1905	May 11, 1905	6.95	5,125	1920	May 11-14, 1920	7.9	6,200
1906	May 11,12,1906	8.6	7,760	1921	Apr. 5-7, 1921	10.0	10,000
1907	May 12-15, 1907	8.4	7,440	1922	Apr. 20, 1922	7.30	7,600
1908	May 2, 1908	9.2	8,720	1923	May 1, 1923	9.58	12,200
				1924	May 15, 1924	7.23	7,460
1911	May 4, 1911	8.2	7,120	1925	Apr. 29, 1925	6.3	4,500

410. Kennebec River at Moosehead, Maine

Location.--Lat 45°35'10", long 69°43'10", on right bank an eighth of a mile downstream from dam at east outlet of Moosehead Lake and half a mile northwest of Moosehead, Piscataquis County.

Drainage area.--1,240 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 9, 1924; recording thereafter. Datum of gage is 1,015.53 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Flow regulated by 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)
1920	May 12,13,1920	7.13	13,400	1941	Aug. 14, 1941	6.10	5,060
				1942	June 18, 1942	8.03	9,540
1921	Apr. 23, 1921	5.12	6,350	1943	July 1, 1943	7.55	8,370
1922	June 30, 1922	6.7	11,700	1944	Jan. 30, 1944	5.43	3,740
1923	May 11-12,1923	5.7	8,070	1945	Apr. 28, 1945	9.80	14,100
1924	May 21, 1924	5.10	6,290				
1925	July 1, 1925	7.23	8,020	1946	Apr. 27, 1946	7.97	9,380
				1947	May 8, 1947	9.94	15,600
1926	Nov. 17, 1925	8.88	12,700	1948	May 29, 1948	5.88	4,590
1927	June 4,5,1927	7.48	8,720	1949	July 11, 1949	5.56	3,920
1928	May 31, 1928	9.0	13,000	1950	July 17, 1950	6.10	5,060
1929	May 9, 1929	9.19	13,600				
1930	May 29-31,1930	6.83	6,980	1951	Dec. 13, 1950	8.11	9,970
				1952	June 8, 1952	6.49	5,910
1931	Dec. 12, 1930	7.31	8,260	1953	Apr. 28, 1953	8.02	9,720
1932	May 12-14,1932	5.80	4,430	1954	Sept.14, 1954	9.38	13,600
1933	May 12-13,1933	7.42	8,550	1955	Oct. 16, 1954	9.25	13,200
1934	July 12, 1934	7.20	7,960				
1935	June 6, 1935	7.50	8,770	1956	July 2, 1956	5.49	3,780
				1957	Jan. 3, 1957	5.76	5,200
1936	May 4, 1936	8.02	10,200	1958	Jan. 3, 1958	6.35	6,200
1937	May 23, 1937	8.25	10,100	1959	Jan. 18, 1959	9.29	14,700
1938	May 15, 1938	8.93	11,800	1960	May 5, 1960	7.50	9,210
1939	July 9, 1939	6.89	6,820				
1940	June 21, 1940	6.16	5,190				

425. Kennebec River at The Forks, Maine

Location.--Lat 45°20'35", long 69°57'45", on right bank at The Forks, Somerset County, half a mile upstream from highway bridge and 1 mile upstream from Dead River.

Drainage area.--1,570 sq mi, approximately.

Gage.--Nonrecording prior to June 21, 1912; recording thereafter. At site half a mile downstream at different datum prior to Oct. 18, 1919. Datum of gage is 569.03 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Bankfull stage.--12 ft.

Remarks.--Flow regulated by 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)
1902	Dec. 15, 1901	11.83	22,400	1931	Dec. 13, 1930	6.19	8,980
1903	Apr. 6, 1903	7.5	11,500	1932	May 17, 1932	6.35	9,560
1904	June 7, 1904	7.3	11,500	1933	May 14, 1933	6.60	10,100
1905	June 22, 1905	7.6	11,700	1934	May 4, 1934	6.13	8,690
				1935	June 18, 1935	6.10	8,690
1906	May 24, 1906	7.7	11,900				
1907	May 19, 1907	7.6	11,700	1936	Mar. 20, 1936	8.80	15,200
1908	Nov. 9, 1907	8.8	14,600	1937	May 23, 1937	7.88	14,200
1909	May 11, 1909	8.9	14,900	1938	May 16, 1938	8.43	14,400
1910	May 10, 1910	7.0	10,200	1939	July 10, 1939	5.60	7,300
				1940	May 4, 1940	5.93	8,140
1911	Aug. 16, 1911	6.3	8,630				
1912	May 2, 1912	9.4	16,200	1941	Aug. 15, 1941	4.71	4,910
1913	Apr. 29, 1913	8.39	13,600	1942	June 19, 1942	7.56	13,200
1914	May 11, 1914	9.9	17,400	1943	June 18, 1943	6.58	10,200
1915	May 7, 1915	6.7	9,520	1944	May 5, 1944	4.69	4,910
				1945	Apr. 28, 1945	10.70	18,900
1916	May 20, 1916	7.2	10,700				
1917	June 18, 1917	10.1	23,700	1946	Apr. 28, 1946	8.30	13,900
1918	May 2, 1918	6.19	9,670	1947	May 9, 1947	10.58	18,700
1919	Nov. 22, 1918,	8.0	13,400	1948	May 19, 1948	4.95	5,240
	May 19, 1919			1949	July 11, 1949	4.40	3,970
1920	May 12, 1920	8.5	14,600	1950	July 19, 1950	4.92	5,160
1921	Apr. 18, 1921	6.36	9,440	1951	Dec. 14, 1950	8.01	13,100
1922	June 22, 1922	7.75	13,700	1952	June 8, 1952	6.11	8,240
1923	Apr. 30, 1923	10.05	17,700	1953	Apr. 29, 1953	7.90	12,100
1924	May 14, 1924	6.25	9,120	1954	Sept.15, 1954	10.10	17,800
1925	July 1, 1925	7.09	11,600	1955	Oct. 15, 1954	9.72	17,000
1926	Nov. 17, 1925	8.30	14,100	1956	Apr. 30, 1956	5.99	7,920
1927	May 29, 1927	7.10	11,600	1957	Jan. 20, 1957	6.14	8,310
1928	May 28, 1928	8.65	14,900	1958	Apr. 25, 1958	7.95	13,000
1929	May 6, 1929	9.44	16,500	1959	Jan. 19, 1959	10.37	20,200
1930	May 30,31,1930	6.1	8,690	1960	May 15, 1960	7.64	13,300

435. Dead River near Dead River, Maine

Location.--Lat 45°13'48", long 70°11'58", on right bank in T.3, R.4, Somerset County, at foot of Long Falls, 0.3 mile upstream from Black Brook and 0.5 mile downstream from Flagstaff Lake Dam.

Drainage area.--520 sq mi.

Gage.--Recording. Datum of gage is 1,037.32 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above.

Remarks.--Flow completely regulated by Flagstaff Lake (capacity, 12,050,000,000 cu ft) since Oct. 1, 1949. Base for partial-duration series, 5,100 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 5, 1940	9.66	10,400	1949	Feb. 3, 1949	a9.40	-
					Apr. 17, 1949	7.74	5,060
1941	Apr. 18, 1941	8.31	6,250				
				1950	Aug. 3, 1950	7.72	3,010
1942	Apr. 28, 1942	9.27	9,150				
	June 19, 1942	9.11	8,570	1951	May 1, 1951	9.46	7,750
1943	May 14, 1943	8.83	7,270	1952	May 13, 1952	9.14	6,660
	June 18, 1943	8.03	5,180				
				1953	Apr. 28, 1953	-	b5,410
1944	Jan. 15, 1944	a10.25	-		May 16, 1953	9.85	9,310
	Apr. 28, 1944	9.27	9,150				
	May 8, 1944	9.65	9,500	1954	Apr. 24, 1954	-	b6,160
					May 10, 1954	-	b5,830
1945	Jan. 3, 1945	a10.50	-		Sept.12, 1954	11.50	18,000
	Apr. 1, 1945	9.56	9,500				
	Apr. 29, 1945	8.07	5,280	1955	May 6, 1955	9.47	8,270
1946	Jan. 21, 1946	a10.27	-	1956	July 24, 1956	8.82	6,020
	Mar. 31, 1946	7.99	5,100				
	Apr. 28, 1946	7.99	5,100	1957	June 19, 1957	8.59	5,320
				1958	June 12, 1958	9.02	7,360
1947	Jan. 11, 1947	a10.24	-	1959	June 15, 1959	9.64	9,680
	May 8, 1947	9.82	10,100	1960	May 12, June 27, 1960	8.85	6,740
1948	May 15, 1948	8.04	5,230				
	May 20, 1948	8.22	6,440				

a Backwater from ice.
b Daily mean discharge.

450. Dead River at The Forks, Maine

Location.--Lat 45°21'00", long 69°59'30", on left bank 1½ miles northwest of The Forks, Somerset County, and 1½ miles upstream from mouth.

Drainage area.--Area, 872 sq mi. Length of main stream, 80.8 miles. Average slope above gage, 6.94 ft per mile. Average tributary slope, 146 ft per mile. Average land slope, 694 ft per mile. Stream density, 1.42 miles per square mile. Mean altitude of basin, 1,765 ft.

Gage.--Nonrecording at site 100 ft downstream at same datum prior to Sept. 29, 1923; recording thereafter. Datum of gage is 600.5 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--10 ft.

Remarks.--Flow partly regulated by Flagstaff and Spencer Lakes and Dead River Pond. Only annual peaks are shown.

Peak stages and discharges of Dead River at The Forks, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 10, 1903	5.2	a10,700	1934	Apr. 20, 1934	7.50	14,700
1904	May 5, 1904	8.1	24,600	1935	Apr. 30, 1935	7.10	13,000
1905	May 4, 1905	7.5	21,300				
				1936	Mar. 20, 1936	10.54	28,700
1906	May 12, 1906	7.8	23,000	1937	May 17, 1937	8.20	16,900
1907	May 17, 1907	7.7	a22,000	1938	Apr. 21, 1938	d9.16	11,700
				1939	May 10, 1939	7.58	14,400
1911	May 10, 1911	6.6	a16,400	1940	May 4, 1940	7.65	14,400
1912	May 14, 1912	8.3	24,700				
1913	May 28, 1913	7.5	20,600	1941	Apr. 17, 1941	6.54	10,200
1914	May 10, 1914	6.86	17,600	1942	June 17, 1942	8.25	16,900
1915	Apr. 26, 1915	b5.35	c8,940	1943	June 29, 1943	7.56	14,400
				1944	May 6, 1944	7.58	14,400
1916	May 18, 1916	5.1	10,300	1945	Apr. 3, 1945	7.81	15,200
1917	June 21, 1917	-	22,600				
				1946	June 9, 1946	6.97	12,000
1919	May 30, 1919	-	10,600	1947	May 7, 1947	8.46	18,200
1920	Apr. 24, 1920	-	9,510	1948	May 24, 1948	7.66	14,800
				1949	May 31, 1949	7.24	13,000
1922	Apr. 14, 1922	-	13,700	1950	July 3, 1950	5.48	7,140
1923	Apr. 30, 1923	8.15	23,800				
1924	May 11, 1924	8.25	15,500	1951	Apr. 13, 1951	7.04	12,200
1925	Apr. 30, 1925	8.60	16,600	1952	July 8, 1952	6.05	8,860
				1953	Apr. 1, 1953	6.59	10,500
1926	May 4, 1926	7.40	12,800	1954	Sept.12, 1954	8.13	16,600
1927	May 10, 1927	7.37	12,800	1955	May 7, 1955	7.35	13,400
1928	May 21, 1928	8.36	16,000				
1929	May 3, 1929	8.93	17,600	1956	May 16, 1956	5.98	8,640
1930	May 17, 1930	7.43	12,800	1957	Apr. 22, 1957	e6.90	4,790
				1958	Apr. 25, 1958	6.60	10,600
1931	May 11, 1931	8.34	15,700	1959	June 16, 1959	6.84	11,400
1932	May 8, 1932	8.41	16,000	1960	May 10, 1960	6.25	9,490
1933	May 4, 1933	8.38	18,200				

a Not previously published. b Occurred Feb. 27, 1915; backwater from ice. c Revised. d Occurred Mar. 25, 1938; backwater from ice. e Occurred Mar. 1, 1957; backwater from ice.

460. Austin Stream at Bingham, Maine

Location.--Lat 45°03'55", long 69°52'55", on right bank at Bingham, Somerset County, three-quarters of a mile upstream from mouth.

Drainage area.--Area, 91.1 sq mi. Area of lakes, reservoirs, and ponds, 1.78 sq mi. Length of main stream, 17.9 miles. Average slope above gage, 58.7 ft per mile.

Gage.--Recording. Datum of gage is 350.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Shifts in the relation occur frequently, especially during high flows.

Bankfull stage.--10 ft.

Remarks.--Peak discharge not materially affected by artificial storage. 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)
1932	Apr. 13, 1932	10.91	2,530	1936	Mar. 19, 1936	12.93	5,480
	Apr. 23, 1932	10.00	1,430		Apr. 7, 1936	10.14	1,280
	Sept.17, 1932	13.12	5,820				
				1937	Apr. 29, 1937	10.70	2,400
1933	Nov. 20, 1932	10.84	1,950		May 15, 1937	10.10	1,670
	Apr. 19, 1933	10.43	1,580		May 21, 1937	10.15	1,720
	May 3, 1933	10.94	2,040				
				1938	Oct. 21, 1937	8.76	1,590
1934	Apr. 13, 1934	10.07	1,390		Oct. 24, 1937	10.08	4,030
	Apr. 20, 1934	10.83	2,150		Nov. 29, 1937	8.53	1,280
	Apr. 25, 1934	10.31	1,610		Jan. 26, 1938	10.50	-
					Apr. 21, 1938	8.68	1,470
1935	Apr. 21, 1935	10.21	1,410		Sept.21, 1938	8.64	1,420
	Apr. 29, 1935	10.55	1,640				
				1939	Oct. 25, 1938	8.40	1,120
1936	Mar. 13, 1936	17.63	-		Dec. 7, 1938	9.36	1,980

Peak stages and discharges of Austin Stream at Bingham, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 10, 1939	9.34	1,960	1952	Apr. 20, 1952	10.14	1,400
1940	Apr. 13, 1940	9.64	2,220	1953	Mar. 27, 1953	12.48	4,450
	May 3, 1940	10.47	3,610		Mar. 31, 1953	12.06	3,600
1941	Apr. 16, 1941	8.97	1,320	1954	Nov. 26, 1953	9.60	2,700
					Dec. 7, 1953	8.22	1,270
1942	Apr. 26, 1942	9.79	2,480		Apr. 23, 1954	9.52	2,600
	June 17, 1942	9.24	1,650		May 7, 1954	8.17	1,230
					Aug. 11, 1954	8.71	1,710
1943	May 8, 1943	9.15	1,540		Sept.11, 1954	10.30	3,050
1944	Oct. 17, 1943	9.06	1,440	1955	Oct. 16, 1954	8.83	1,600
	Nov. 9, 1943	10.68	4,380		Dec. 19, 1954	8.95	1,700
	May 5, 1944	9.50	2,010		Apr. 16, 1955	9.04	1,790
					Apr. 19, 1955	8.48	1,750
1945	Apr. 1, 1945	9.17	1,400		May 6, 1955	8.06	1,330
	Apr. 28, 1945	9.22	1,430				
				1956	Jan. 11, 1956	8.57	-
1946	Oct. 8, 1945	9.11	1,340		Apr. 30, 1956	8.50	1,770
	Apr. 27, 1946	9.28	1,730		May 14, 1956	7.92	1,210
1947	Oct. 1, 1946	10.12	2,680	1957	Apr. 22, 1957	7.80	1,100
	May 6, 1947	10.30	2,980				
				1958	Nov. 20, 1957	8.10	1,370
1948	Apr. 2, 1948	9.10	1,410		Dec. 21, 1957	10.96	5,180
	May 18, 1948	10.29	2,700		Dec. 27, 1957	9.54	3,000
	May 23, 1948	9.10	1,270		Apr. 23, 1958	10.78	4,880
					Apr. 30, 1958	8.89	1,540
1949	Apr. 16, 1949	8.78	1,050		May 9, 1958	9.52	2,180
1950	Apr. 21, 1950	10.37	2,740	1959	Apr. 4, 1959	a9.45	-
					June 19, 1959	8.58	1,310
1951	Nov. 27, 1950	12.45	5,820				
	Dec. 5, 1950	10.15	1,360	1960	Oct. 25, 1959	9.12	2,000
	Dec. 9, 1950	10.26	1,480		Nov. 25, 1959	9.55	2,580
	Dec. 12, 1950	10.30	1,530		Nov. 29, 1959	9.08	1,950
	Apr. 4, 1951	11.55	3,500		Apr. 19, 1960	8.82	1,450
					May 14, 1960	8.80	1,430
1952	Nov. 4, 1951	11.32	3,050				

a Backwater from ice.

465. Kennebec River at Bingham, Maine

Location.--Lat 45°03'05", long 69°53'15", on right bank at Bingham, Somerset County, 200 ft downstream from highway bridge, half a mile downstream from Austin Stream, and 1¾ miles downstream from Wyman Dam.

Drainage area.--2,710 sq mi, approximately.

Gage.--Nonrecording at different datum prior to October 1930; recording thereafter. Datum of gage is 330.2 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs and extended above on basis of computations of flow at Wyman Dam plus inflow. The relation is essentially permanent.

Bankfull stage.--Not subject to overflow.

Remarks.--Floodflow regulated by Wyman Pond (capacity, 9,080,000 cu ft) 1 mile upstream and by artificial storage in several lakes (combined capacity, about 50,000,000,000 cu ft). Base for partial-duration series, 20,000 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Nov. 9, 1907	8.45	27,200	1933	May 4, 1933	11.28	26,800
	Apr. 28, 1908	8.75	28,800		May 9, 1933	11.54	28,400
					May 16, 1933	10.35	20,800
1909	May 11, 1909	9.50	34,000				
				1934	Apr. 21, 1934	11.04	25,200
1931	Apr. 22, 1931	10.75	23,100		Apr. 25, 1934	10.27	20,300
1932	Apr. 14, 1932	10.32	20,600	1935	Apr. 29, 1935	11.21	26,300
	Sept.17, 1932	11.06	25,600		May 2, 1935	10.58	22,200

Peak stages and discharges of Kennebec River at Bingham, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 20, 1936	14.44	58,800	1947	May 9, 1947	13.33	44,400
	Apr. 3, 1936	11.05	25,300		May 14, 1947	11.78	30,400
	Apr. 9, 1936	10.55	22,000				
	May 4, 1936	11.35	27,300	1948	May 18, 1948	10.96	24,400
1937	Apr. 29, 1937	11.40	26,200	1949	May 4, 1949	9.38	14,200
	May 8, 1937	11.04	23,400				
	May 17, 1937	11.58	27,600	1950	Apr. 23, 1950	9.33	14,000
	May 21, 1937	11.60	27,800				
				1951	Nov. 27, 1950	11.55	28,600
1938	Oct. 23, 1937	10.74	21,600		Dec. 13, 1950	10.70	22,400
	May 17, 1938	11.42	26,200		Apr. 4, 1951	10.74	22,600
					Apr. 13, 1951	11.80	30,600
1939	May 10, 1939	11.16	24,800		Apr. 30, 1951	10.85	23,400
					May 2, 1951	10.69	22,300
1940	May 3, 1940	11.94	30,200				
				1952	June 8, 1952	9.82	16,600
1941	Apr. 18, 1941	10.63	20,800				
				1953	Mar. 28, 1953	11.53	28,400
1942	Apr. 27, 1942	11.46	26,700		Mar. 29, 1953	11.04	24,400
	Apr. 30, 1942	11.19	24,700		Mar. 31, 1953	-	a23,200
	June 18, 1942	12.35	34,400		Apr. 29, 1953	-	a22,200
1943	May 8, 1943	10.82	23,100	1954	Apr. 23, 1954	-	a21,300
	May 12, 1943	10.84	23,000		May 8, 1954	-	a26,000
	May 18, 1943	10.51	21,100		Sept.15, 1954	11.96	31,800
1944	May 5, 1944	11.25	26,000	1955	Oct. 17, 1954	11.36	27,200
1945	Apr. 3, 1945	11.22	26,100	1956	May 14, 1956	9.95	17,300
	Apr. 28, 1945	12.56	37,300				
	May 19, 1945	11.86	31,000	1957	Apr. 22, 1957	8.73	11,000
				1958	Apr. 23, 1958	11.89	34,200
1946	Apr. 28, 1946	11.78	30,600	1959	June 19, 1959	11.80	33,400
	May 1, 1946	10.74	22,600	1960	May 16, 1960	11.15	27,900

a Daily mean discharge.

470. Carrabassett River near North Anson, Maine

Location.--Lat 44°52'00", long 69°57'10", on left bank 3 miles upstream from Mill Stream and North Anson, Somerset County.

Drainage area.--Area, 354 sq mi. Length of main stream, 41.1 miles. Average slope above gage, 46.0 ft per mile. Average tributary slope, 165 ft per mile. Average land slope, 745 ft per mile. Stream density, 1.79 miles per square mile. Mean altitude of basin, 1,124 ft.

Gage.--Nonrecording at site 1 mile upstream at different datum prior to May 5, 1907; recording at present site since August 1925. Datum of gage is 303.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs.

Bankfull stage.--26 ft.

Remarks.--Flood discharge not materially affected by artificial storage. Records prior to 1907 not sufficient to obtain peak discharges. 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)
1926	Nov. 14, 1925	10.40	8,320	1930	Apr. 7, 1930	13.11	11,800
	Nov. 16, 1925	9.80	7,360				
	May 4, 1926	10.57	8,590	1931	Apr. 11, 1931	8.47	5,140
1927	Nov. 19, 1926	10.99	9,280	1932	Apr. 12, 1932	14.63	16,000
					Sept.17, 1932	18.91	25,600
1928	Oct. 20, 1927	11.86	10,000				
	Nov. 4, 1927	17.83	23,100	1933	Nov. 20, 1932	10.05	7,280
	Dec. 8, 1927	11.05	8,720		Apr. 18, 1933	10.83	8,440
	Apr. 8, 1928	13.12	12,700		May 2, 1933	9.30	6,260
	May 25, 1928	14.51	15,700				
				1934	Apr. 13, 1934	12.96	11,600
1929	Apr. 29, 1929	9.70	6,850		Apr. 17, 1934	10.68	8,290
	May 3, 1929	13.88	12,900		Apr. 20, 1934	11.20	9,010

Peak stages and discharges of Carrabassett River near North Anson, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Apr. 29, 1935	10.08	7,430	1948	May 18, 1948	10.30	7,710
1936	Mar. 13, 1936	18.38	24,400	1949	Jan. 1, 1949	8.10	4,580
	Mar. 19, 1936	21.17	30,800		Mar. 27, 1949	10.27	5,810
	Mar. 22, 1936	16.26	19,600	1950	Apr. 21, 1950	17.40	22,100
1937	Oct. 18, 1936	9.60	6,700	1951	Nov. 27, 1950	16.52	20,100
	Dec. 20, 1936	11.94	6,500		Dec. 9, 1950	10.72	8,300
	Apr. 29, 1937	10.45	7,860		Apr. 4, 1951	16.98	21,200
	May 8, 1937	10.23	7,570		Apr. 9, 1951	10.00	7,250
	May 15, 1937	10.63	8,150	1952	Nov. 3, 1951	15.00	16,100
	May 20, 1937	11.66	9,730		Nov. 8, 1951	9.62	6,700
1938	Oct. 21, 1937	12.30	11,000		Apr. 20, 1952	10.08	7,840
	Oct. 24, 1937	13.95	14,500		May 12, 1952	13.22	13,500
	Jan. 26, 1938	14.20	8,000	1953	Mar. 27, 1953	20.76	30,400
	Sept.22, 1938	9.87	7,140		Mar. 30, 1953	14.65	16,300
1939	Dec. 6, 1938	11.62	8,200	1954	Nov. 26, 1953	13.84	14,700
	Apr. 23, 1939	11.47	8,720		Apr. 18, 1954	10.99	9,380
	May 9, 1939	9.18	6,120		Apr. 23, 1954	12.48	12,200
1940	Apr. 13, 1940	12.18	7,500		May 10, 1954	11.63	10,600
	May 3, 1940	12.81	11,300		Sept. 1, 1954	9.79	7,330
1941	Apr. 16, 1941	7.92	4,300		Sept.12, 1954	17.05	21,500
1942	Apr. 26, 1942	10.86	8,580	1955	Oct. 16, 1954	15.06	17,100
	June 15, 1942	10.06	7,430		Nov. 4, 1954	10.63	8,740
	June 17, 1942	12.14	10,300		Dec. 19, 1954	10.04	7,740
1943	May 27, 1943	11.50	9,440		Apr. 16, 1955	11.05	9,490
	June 16, 1943	9.65	6,700		Apr. 19, 1955	9.22	6,420
1944	Oct. 17, 1943	12.40	10,800	1956	Jan. 10, 1956	11.40	-
	Nov. 9, 1943	15.75	18,400		Apr. 30, 1956	9.15	6,310
	May 6, 1944	9.88	7,140	1957	Apr. 21, 1957	8.62	5,460
1945	Mar. 30, 1945	11.56	9,590	1958	Dec. 21, 1957	14.80	16,600
	Apr. 3, 1945	10.10	7,420		Dec. 27, 1957	11.50	10,300
1946	Oct. 8, 1945	12.39	10,800		Apr. 23, 1958	14.61	16,200
	Mar. 30, 1946	9.39	6,420	1959	Apr. 3, 1959	-	a9,000
1947	Oct. 1, 1946	11.06	8,870	1960	Oct. 25, 1959	17.16	21,800
	Feb. 5, 1947	14.64	5,000		Nov. 25, 1959	11.48	10,300
	Apr. 13, 1947	10.00	7,280		Apr. 6, 1960	-	9,000
	May 5, 1947	10.72	8,290		Apr. 19, 1960	9.59	7,010
					May 10, 1960	11.32	9,970
1948	Apr. 2, 1948	10.49	8,000		May 14, 1960	10.64	8,760
	May 15, 1948	10.00	7,280		Sept.13, 1960	9.63	7,080

a Backwater from ice.

475. Sandy River near Farmington, Maine

Location.--Lat 44°42'05", long 70°10'25", on downstream side near center of easterly span of bridge on Route 4, three-quarters of a mile upstream from Baker Stream and 2.4 miles northwest of Farmington, Franklin County.

Drainage area.--242 sq mi.

Gage.--Nonrecording. Altitude of gage is 355 ft (from topographic map).

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

Remarks.--Flood discharge not materially affected by artificial storage. 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)
1911	May 1, 1911	7.30	3,660	1914	Nov. 10, 1913	10.80	8,800
1912	May 30, 1912	9.80	7,250	1915	July 9, 1915	9.85	7,320
1913	Sept.25, 1913	9.70	7,100				

480. Sandy River near Mercer, Maine

Location.--Lat 44°42'30", long 69°56'25", on right bank 0.9 mile upstream from Bog Stream, 3 miles north of Mercer, Somerset County, and 9½ miles upstream from mouth.

Drainage area.--Area, 514 sq mi. Length of main stream, 61.8 miles. Average slope above gage, 13.7 ft per mile. Average tributary slope, 165 ft per mile. Average land slope, 672 ft per mile. Stream density, 1.47 miles per square mile. Mean altitude of basin, 959 ft.

Gage.--Recording. Datum of gage is 197.1 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above on basis of slope-area measurement at 38,600 cfs and by comparison of flood records with those for other stations in the basin.

Bankfull stage.--15 ft.

Remarks.--Peak discharge not materially affected by storage. Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 8, 1929	8.47	8,700
	Apr. 18, 1929	8.09	7,740
	Apr. 29, 1929	7.90	7,260
	May 4, 1929	9.93	12,200
1930	Apr. 8, 1930	10.96	15,100
1931	Apr. 4, 1931	7.64	6,550
	Apr. 12, 1931	7.51	6,320
	May 24, 1931	7.47	6,320
1932	Apr. 3, 1932	11.72	9,940
	Apr. 13, 1932	10.59	14,100
	Sept.17, 1932	11.12	15,400
1933	Nov. 2, 1932	7.42	6,090
	Nov. 20, 1932	9.60	11,400
	Apr. 8, 1933	7.90	6,090
	Apr. 19, 1933	9.80	11,900
1934	Apr. 13, 1934	11.61	16,700
	Apr. 18, 1934	9.00	9,940
	Apr. 21, 1934	9.02	9,940
1935	Apr. 14, 1935	8.78	9,130
1936	Mar. 13, 1936	15.85	21,000
	Mar. 19, 1936	16.75	38,600
	Mar. 22, 1936	12.18	18,700
	Mar. 28, 1936	8.10	7,460
	Apr. 7, 1936	8.33	7,950
1937	Dec. 21, 1936	9.90	6,500
	Feb. 15, 1937	13.95	3,970
	Apr. 17, 1937	8.06	7,460
	Apr. 30, 1937	8.71	8,950
	May 8, 1937	9.66	11,500
	May 16, 1937	9.25	10,200
	May 21, 1937	9.93	12,100
1938	Oct. 21, 1937	7.46	6,050
	Oct. 24, 1937	9.42	10,900
	Nov. 15, 1937	8.52	8,450
	Nov. 29, 1937	8.85	9,200
	Jan. 25, 1938	10.92	-
	Jan. 26, 1938	10.80	13,000
	May 16, 1938	7.87	6,980
1939	Dec. 7, 1938	8.97	9,710
	Dec. 11, 1938	8.03	7,220
	Apr. 20, 1939	10.36	5,390
	Apr. 24, 1939	9.22	9,200
1940	Apr. 13, 1940	9.86	12,100
	May 4, 1940	10.12	13,500
1941	Apr. 16, 1941	6.36	3,880
1942	Apr. 19, 1942	7.54	6,130
	June 16, 1942	9.64	11,200
	June 18, 1942	9.53	10,900
1943	May 4, 1943	7.89	7,050
	May 12, 1943	8.05	7,280
	May 27, 1943	8.41	8,200
	June 16, 1943	11.26	16,000
1944	Oct. 18, 1943	9.51	10,900
	Nov. 10, 1943	11.22	15,700
1945	Mar. 30, 1945	9.81	11,700
	Apr. 6, 1945	8.32	7,970
	Apr. 28, 1945	8.28	7,970
	May 14, 1945	8.30	7,970
	May 19, 1945	7.96	7,280
1946	Oct. 8, 1945	9.30	10,300
	Mar. 22, 1946	10.61	4,700
	Mar. 30, 1946	8.08	7,510
	Apr. 27, 1946	7.50	6,130
1947	Oct. 1, 1946	9.18	10,100
	Feb. 6, 1947	14.47	5,900
	Apr. 13, 1947	7.9	7,000
	May 5, 1947	8.70	8,910
	May 14, 1947	7.88	7,050
	June 4, 1947	8.28	7,970
1948	Apr. 2, 1948	8.50	8,580
	May 15, 1948	8.10	7,520
	May 18, 1948	8.97	10,100
	May 23, 1948	7.70	6,590
1949	Jan. 1, 1949	7.95	7,160
	Mar. 29, 1949	7.55	6,240
1950	Apr. 21, 1950	12.49	19,900
1951	Nov. 27, 1950	11.70	17,500
	Dec. 5, 1950	7.72	6,640
	Dec. 9, 1950	9.48	11,200
	Apr. 4, 1951	12.68	20,400
	Apr. 9, 1951	8.88	9,560
	Apr. 26, 1951	8.21	7,800
1952	Nov. 4, 1951	10.54	14,200
	Apr. 11, 1952	7.90	7,310
	Apr. 15, 1952	7.72	6,880
	Apr. 21, 1952	8.82	9,700
	May 13, 1952	9.83	12,600
	June 2, 1952	9.19	10,800
1953	Mar. 28, 1953	16.34	36,900
	Mar. 31, 1953	11.79	18,900

Peak stages and discharges of Sandy River near Mercer, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Nov. 26, 1953	9.28	10,700	1958	Dec. 21, 1957	10.92	15,800
	Dec. 7, 1953	8.14	7,630		Dec. 27, 1957	9.60	11,700
	Apr. 18, 1954	10.60	14,800		Apr. 23, 1958	11.04	16,100
	Apr. 23, 1954	9.47	11,300		Apr. 30, 1958	8.19	7,760
	May 10, 1954	9.70	12,000		May 9, 1958	7.60	6,290
	Sept.12, 1954	12.40	21,100		May 13, 1958	7.56	6,190
1955	Oct. 17, 1954	10.82	15,500	1959	Oct. 29, 1958	7.57	6,220
	Nov. 4, 1954	8.46	8,470		Apr. 4, 1959	9.23	10,900
	Dec. 19, 1954	9.60	11,700		June 29, 1959	7.65	6,710
	Apr. 16, 1955	9.62	11,800				
	Apr. 20, 1955	7.93	7,100	1960	Oct. 25, 1959	12.38	20,100
	May 6, 1955	7.88	6,970		Nov. 26, 1959	9.33	11,200
					Nov. 29, 1959	9.32	11,200
1956	Jan. 10, 1956	8.92	-		Apr. 6, 1960	9.64	12,200
	Jan. 10, 1956	7.71	6,550		Apr. 18, 1960	8.14	7,900
	Apr. 18, 1956	8.22	7,840		May 10, 1960	8.97	10,100
	Apr. 30, 1956	7.93	7,100		May 14, 1960	9.67	12,100
					May 25, 1960	8.48	8,780
1957	Apr. 22, 1957	7.12	5,180				

485. Kennebec River at Waterville, Maine

Location.--Lat 44°33'45", long 69°37'10", at dam and mill of Holingsworth and Whitney Co. at Winslow, Kennebec County, 2 miles above Sebasticook River, and 3½ miles above Messalonskee Stream.

Drainage area.--4,270 sq mi.

Gage.--Recording and nonrecording. Datum of gage is 47.84 ft below mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Discharge computed from flow over dam, and through logway and water wheels of mill. Results considered accurate for high flows.

Bankfull stage.--Not subject to overflow.

Historical data.--Official flow records have been kept at Waterville since 1892, and unofficial records cover high floods for 98 years prior to that date. The flood of May 22, 1832 (discharge, 140,000 cfs) was at that time the greatest known flood on Kennebec River since the settlement of the country. The following momentary maximum discharges have been computed:

Water year	Date	Gage height (feet)	Discharge (cfs)
1832	May 22, 1832	-	140,000
1895	Apr. 15, 1895	-	103,000
1896	Mar. 2, 1896	-	113,000
1902	Dec. 16, 1901	135.15	157,000

Remarks.--Flow regulated by reservoirs and powerplants above station. There are two main systems of lakes and ponds in the basin above Waterville. One system includes the extensive areas of Moosehead and its tributary lakes and the other the Dead River reservoirs. Both systems are situated at the extreme headwaters in the mountains, and 1,740 sq mi, or 41 percent of the total drainage area, is entirely controlled. Discharge figures listed are maximum daily means, except as otherwise noted. Base for partial-duration series, 27,500 cfs.

Daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1892	Apr. 7, 1892	-	28,200	1895	Apr. 10, 1895	-	54,200
	June 29, 1892	-	30,000		Apr. 15, 1895	-	86,200
	July 4, 1892	-	30,000				
				1896	Mar. 2, 1896	-	111,000
1893	May 3, 1893	-	27,600		Apr. 17, 1896	-	64,700
	May 5, 1893	-	60,500		Apr. 21, 1896	-	74,500
	May 13, 1893	-	83,500		Apr. 24, 1896	-	46,700
	May 14, 1893	-	54,500		May 6, 1896	-	30,900
1894	Apr. 23, 1894	-	35,300	1897	Nov. 6, 1896	-	29,900

Daily mean discharges of Kennebec River at Waterville, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Apr. 17, 1897	-	34,800
	Apr. 20, 1897	-	32,800
	Apr. 28, 1897	-	66,900
	May 5, 1897	-	40,700
	May 12, 1897	-	41,200
	May 14, 1897	-	41,300
	July 15, 1897	-	55,600
1898	Apr. 15, 1898	-	50,400
	Apr. 25, 1898	-	52,100
	May 2, 1898	-	39,400
	May 14, 1898	-	34,300
1899	Apr. 16, 1899	-	38,800
	Apr. 20, 1899	-	41,600
	Apr. 24, 1899	-	45,700
1900	Apr. 21, 1900	-	62,300
	May 4, 1900	-	52,300
	May 10, 1900	-	28,600
	May 20, 1900	-	48,500
1901	Apr. 6, 1901	-	58,000
	Apr. 9, 1901	-	76,600
	Apr. 24, 1901	-	66,000
1902	Dec. 16, 1901	-	151,000
	Mar. 4, 1902	-	54,300
	May 18, 1902	-	46,600
	Mar. 23, 1902	-	46,700
	Mar. 30, 1902	-	58,000
	May 1, 1902	-	34,000
	May 29, 1902	-	29,200
	June 27, 1902	-	33,900
1903	Mar. 12, 1903	-	31,300
	Mar. 20, 1903	-	35,700
	June 14, 1903	-	30,000
1904	Apr. 11, 1904	-	33,500
	Apr. 30, 1904	-	36,100
	May 12, 1904	-	37,800
	May 17, 1904	-	37,600
1905	Apr. 1, 1905	-	32,100
	Apr. 14, 1905	-	28,000
1906	Apr. 16, 1906	-	39,400
	Apr. 23, 1906	-	32,900
	May 11, 1906	-	34,400
1907	Apr. 25, 1907	-	41,400
	Apr. 27, 1907	-	29,600
	May 2, 1907	-	44,000
	June 2, 1907	-	47,300
1908	Nov. 4, 1907	-	27,900
	Nov. 8, 1907	-	71,200
	Dec. 12, 1907	-	41,200
	Apr. 29, 1908	-	29,200
	June 1, 1908	-	27,900
1909	Apr. 16, 1909	-	44,200
	Apr. 19, 1909	-	29,300
	May 9, 1909	-	27,800
	May 11, 1909	-	38,500
	May 18, 1909	-	30,000
	June 3, 1909	-	30,200
	Sept. 29, 1909	-	34,300
1910	Mar. 27, 1910	-	30,600
	Apr. 3, 1910	-	34,700
	Apr. 7, 1910	-	36,000
	Apr. 9, 1910	-	33,500
	Apr. 28, 1910	-	28,700
1911	Apr. 16, 1911	-	27,900
1912	Apr. 19, 1912	-	40,500
	Apr. 24, 1912	-	45,500
	May 3, 1912	-	28,900
	June 1, 1912	-	36,300
1913	Mar. 25, 1913	-	43,400
	Apr. 2, 1913	-	33,100
	Apr. 18, 1913	-	28,200
	Apr. 27, 1913	-	31,900
1914	Apr. 10, 1914	-	39,100
	Apr. 13, 1914	-	28,200
	Apr. 21, 1914	-	57,000
	May 6, 1914	-	33,200
	May 10, 1914	-	54,300
1915	Feb. 27, 1915	-	31,600
	Apr. 12, 1915	-	41,700
	May 2, 1915	-	44,200
	July 10, 1915	-	39,700
1916	Apr. 3, 1916	-	29,000
	Apr. 19, 1916	-	32,800
	Apr. 24, 1916	-	35,400
	May 19, 1916	-	44,500
1917	Apr. 7, 1917	-	40,900
	Apr. 24, 1917	-	30,000
	June 13, 1917	-	76,500
	June 18, 1917	-	88,500
	Aug. 1, 1917	-	34,000
1918	Apr. 3, 1918	-	52,900
	May 2, 1918	-	33,900
1919	Nov. 22, 1918	-	39,800
	Mar. 22, 1919	-	28,500
	Mar. 24, 1919	-	39,800
	Mar. 29, 1919	-	36,000
	Apr. 14, 1919	-	31,000
	Apr. 26, 1919	-	27,300
	May 3, 1919	-	30,800
	May 19, 1919	-	28,700
	May 24, 1919	-	30,700
1920	Apr. 7, 1920	-	27,500
	Apr. 15, 1920	-	54,300
	Apr. 24, 1920	-	36,800
	Apr. 29, 1920	-	36,800
	May 10, 1920	-	37,100
1921	Oct. 2, 1920	-	29,600
	Dec. 7, 1920	-	28,700
	Dec. 16, 1920	-	34,200
	Mar. 27, 1921	-	37,900
	Mar. 30, 1921	-	29,600
1922	Apr. 13, 1922	-	60,600
	Apr. 20, 1922	-	39,100
	June 20, 1922	-	30,000
	June 24, 1922	-	30,000
	July 2, 1922	-	34,300
1923	Apr. 24, 1923	-	39,500
	May 1, 1923	132.90	a135,000
1924	May 2, 1924	-	36,200
	May 14, 1924	-	28,500
1925	Mar. 29, 1925	-	32,500
1926	Nov. 17, 1925	-	42,000
	Apr. 26, 1926	-	27,500
	May 5, 1926	-	36,200
1927	Nov. 20, 1926	-	41,200
1928	Oct. 22, 1927	-	70,000
	Nov. 5, 1927	-	76,800
	Dec. 9, 1927	-	31,900
	Apr. 9, 1928	-	87,200
	Apr. 16, 1928	-	28,200
	May 7, 1928	-	38,800
	May 25, 1928	-	79,200
1929	Apr. 18, 1929	-	33,500
	Apr. 30, 1929	-	38,300

a Momentary maximum discharge.

Daily mean discharges of Kennebec River at Waterville, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 4, 1929	-	66,400	1942	Apr. 26, 1942	129.35	38,000
					June 18, 1942	130.70	45,800
1930	Apr. 8, 1930	-	36,700				
				1943	May 12, 1943	128.30	33,800
1931	June 10, 1931	-	29,400		June 16, 1943	128.75	30,200
1932	Apr. 13, 1932	-	59,600	1944	Nov. 10, 1943	130.60	37,400
	Apr. 23, 1932	-	33,200				
	Sept.17, 1932	-	47,600	1945	Mar. 30, 1945	127.35	39,200
					Apr. 3, 1945	126.90	36,100
1933	Nov. 20, 1932	-	35,800		Apr. 5, 1945	126.20	32,300
	Apr. 19, 1933	128.20	38,900		Apr. 28, 1945	129.40	71,700
	May 4, 1933	127.45	33,000		May 4, 1945	126.10	43,800
					May 9, 1945	125.30	36,000
1934	Apr. 13, 1934	129.50	51,400		May 15, 1945	127.60	61,700
	Apr. 18, 1934	128.15	39,300		May 19, 1945	128.70	68,400
	Apr. 21, 1934	129.00	44,700		May 26, 1945	125.10	34,500
1935	Apr. 14, 1935	125.75	31,000	1946	Mar. 29, 1946	126.90	15,900
	Apr. 22, 1935	126.65	32,600				
	Apr. 29, 1935	127.50	35,500	1947	Oct. 1, 1946	124.00	30,500
					May 8, 1947	129.50	74,900
1936	Mar. 14, 1936	129.00	59,900		May 14, 1947	127.95	61,800
	Mar. 19, 1936	135.10	a154,000		June 3, 1947	126.60	48,500
	Mar. 20, 1936	134.90	140,000		June 10, 1947	124.75	34,900
	Apr. 7, 1936	127.50	36,700				
				1948	Apr. 2, 1948	127.80	27,300
1937	Apr. 30, 1937	128.60	33,000		May 18, 1948	123.30	42,200
	May 8, 1937	128.40	35,700				
	May 11, 1937	126.85	34,600	1949	Apr. 16, 1949	123.25	15,900
	May 16, 1937	129.30	41,100				
	May 21, 1937	129.15	40,900	1950	Apr. 21, 1950	131.00	50,700
1938	Oct. 24, 1937	128.40	32,800	1951	Nov. 27, 1950	132.40	75,600
	Jan. 26, 1938	129.35	30,700		Dec. 13, 1950	127.60	30,600
	Apr. 21, 1938	127.95	27,800		Apr. 4, 1951	131.85	62,000
	May 16, 1938	128.95	31,200		Apr. 10, 1951	123.05	31,000
1939	Dec. 7, 1938	128.70	28,900	1952	Nov. 4, 1951	123.95	45,300
	Apr. 24, 1939	126.50	32,900		May 13, 1952	127.70	30,100
	May 1, 1939	125.45	35,500				
	May 10-11,1939	126.60	33,900	1953	Mar. 27, 1953	134.00	a112,000
					Apr. 28-29, 1953	126.30	30,500
1940	Apr. 14, 1940	129.20	42,500				
	May 4, 1940	130.50	51,500	1954	Nov. 26, 1953	123.70	a34,000
1941	Nov. 16, 1940	124.40	13,500				

a Momentary maximum discharge.

490. Sebasticook River near Pittsfield, Maine

Location.--Lat 44°42'55", long 69°24'55", on right bank 1¾ miles upstream from Twentyfivemile Stream and 4 miles south of Pittsfield, Somerset County.

Drainage area.--579 sq mi.

Gage.--Recording. Datum of gage is 133.9 ft above mean sea level, datum of 1929.

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

Remarks.--Flood discharge not materially affected by artificial storage. Base for partial-duration series, 4,460 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 20, 1929	8.81	7,440	1944	Nov. 13, 1943	8.1	6,360
					Apr. 12, 1944	7.33	5,220
1930	Mar. 14, 1930	a7.76	5,150				
	Apr. 11, 1930	7.92	6,180	1945	Apr. 6, 1945	9.05	7,760
1931	Apr. 6, 1931	8.66	6,850	1946	Mar. 30, 1946	6.98	4,760
1932	Apr. 14, 1932	8.80	7,000	1947	May 8, 1947	6.94	4,630
1933	Apr. 11, 1933	9.05	7,300	1948	May 21, 1948	9.25	7,580
1934	Apr. 5, 1934	7.73	5,480	1949	Mar. 30, 1949	6.77	4,460
	Apr. 16, 1934	10.44	9,400				
				1950	Apr. 24, 1950	8.47	6,940
1935	Apr. 16, 1935	9.45	8,310				
				1951	Dec. 2, 1950	7.20	5,040
1936	Mar. 16, 1936	13.18	14,400		Dec. 14, 1950	7.37	5,280
	Mar. 22, 1936	13.20	14,400		Apr. 6, 1951	9.03	7,800
	Apr. 10, 1936	7.67	5,570				
				1952	Apr. 9, 1952	7.89	6,040
1937	Apr. 10, 1937	7.40	5,290				
				1953	Mar. 31, 1953	11.55	10,900
1938	Jan. 28, 1938	7.48	5,430				
				1954	Apr. 21, 1954	-	b9,160
1939	Dec. 12, 1938	7.10	5,040		Sept.15, 1954	10.58	9,510
	Apr. 25, 1939	9.00	7,760				
				1955	Dec. 22, 1954	-	b4,630
1940	Apr. 15, 1940	11.34	11,300		Apr. 19, 1955	7.89	5,760
	May 7, 1940	7.69	5,740				
				1956	Apr. 19, 1956	8.28	6,310
1941	Apr. 14, 1941	5.75	3,240				
				1957	Apr. 13, 1957	4.73	1,980
1942	Apr. 23, 1942	7.51	5,460	1958	Apr. 26, 1958	8.99	7,290
				1959	Apr. 7, 1959	9.79	8,410
1943	May 6, 1943	6.57	4,240	1960	Apr. 8, 1960	9.82	8,450

a Backwater from ice.
b Daily mean discharge.

495. Cobbosseecontee Stream at Gardiner, Maine

Location.--Lat 44°13'15", long 69°47'25", at dam of Gardiner Water Power Co. in Gardiner, Kennebec County, 1.2 miles upstream from mouth.

Drainage area.--217 sq mi.

Gage.--Nonrecording. Altitude of gage is at mean sea level (from topographic map).

Stage-discharge relation.--Discharge determined by flow over dam, through gates and wheels.

Remarks.--Discharge is sum of flow over dam, through gates and water wheels (computed on basis of coefficients and experiments), and leakage. Flow regulated by Cobbosseecontee Lake (surface area, 8.5 sq mi) and several other lakes above station. Only annual maximum daily discharges are shown.

Maximum daily mean discharges of Cobbosseecontee Stream at Gardiner, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Mar. 26, 1891	-	2,580	1924	May 2, 1924	-	2,300
1892	Apr. 11, 1892	-	306	1925	Mar. 30, 1925	-	2,020
1893	May 18, 1893	-	2,680				
1894	June 1, 1894	-	925	1926	Apr. 26, 1926	-	2,140
1895	Apr. 10, 1895	-	2,620	1927	May 29, 1927	-	1,720
				1928	May 25,26,1928	-	2,560
1896	Mar. 3, 1896	-	2,700	1929	Apr. 19, 1929	-	2,960
1897	May 30, 1897	-	914	1930	Mar. 13, 1930	-	2,420
1898	Mar. 25, 1898	-	1,260				
1899	Apr. 20, 1899	-	1,430	1931	June 10, 1931	-	1,980
1900	Mar. 3, 1900	-	2,320	1932	Apr. 15, 1932	-	2,900
				1933	Apr.19,20,1933	-	2,500
1901	Apr. 9, 1901	-	3,200	1934	Apr. 14, 1934	-	2,700
1902	Dec. 16, 1901	-	2,700	1935	Apr. 18, 1935	-	2,180
1903	Mar. 12, 1903	-	3,280				
1904	Apr.30, May 1, 1904	-	2,750	1936	Mar.20-21, 1936	-	4,320
				1937	May 22, 1937	-	2,080
1905	Apr. 7, 1905	-	882	1938	Jan. 27, 1938	-	1,900
				1939	Apr. 22, 1939	-	2,570
1906	June 26, 1906	-	1,280	1940	Apr. 14, 1940	-	2,590
1907	Apr. 27, 1907	-	1,690				
1908	May 3,4, 1908	-	1,820	1941	(a)	-	290
1909	Apr. 17, 1909	-	2,000	1942	Mar. 11, 1942	-	1,220
1910	May 2,3,6,7, 1910	-	882	1943	May 14, 1943	-	1,900
				1944	Apr. 5, 1944	-	1,780
				1945	May 15,16,1945	-	2,140
1911	Apr.1,9, 1911	-	765				
1912	June 1,3,1912	-	1,590	1946	Mar. 11, 1946	-	1,200
1913	Apr. 7, 1913	-	1,670	1947	Mar. 16, 1947	-	1,770
1914	Apr.12,13,1914	-	1,580	1948	May 19, 1948	-	2,920
1915	Feb. 27, 1915	-	960	1949	Apr. 10, 1949	-	1,200
				1950	Apr. 8, 1950	-	1,830
1916	May 20, 1916	-	2,110				
1917	June 19,20,1917	-	3,870	1951	Apr. 5, 1951	-	2,770
1918	Apr. 4, 1918	-	1,150	1952	Apr.7-17,1952	-	2,470
1919	Mar. 30, 1919	-	2,630	1953	Apr. 18, 1953	-	2,660
1920	Apr. 15, 1920	-	3,580	1954	Apr. 20,21,1954	-	2,540
				1955	Dec. 20, 1954	-	1,850
1921	Dec. 16, 1920	-	3,910				
1922	May 19, 1922	-	4,250	1956	(b)	-	305
1923	May 1,2, 1923	-	3,050				

a Many days.
b Several days in March and April.

ANDROSCOGGIN RIVER BASIN

525. Diamond River near Wentworth Location, N.H.

Location.--Lat 44°52'40", long 71°03'25", on left bank 0.7 mile upstream from mouth and 1½ miles north of Wentworth Location, Coos County.

Drainage area.--Area, 153 sq mi. Area of lakes, reservoirs, and ponds, 0.46 sq mi. Length of main stream, 19.0 miles. Average slope above gage, 42.6 ft per mile.

Gage.--Recording. Altitude of gage is 1,275 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above by logarithmic plotting. Subject to minor shifts.

Bankfull stage.--9 ft.

Remarks.--Peak discharge not materially affected by artificial storage. Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 25, 1942	8.67	5,230	1945	Mar. 29, 1945	9.17	6,000
	Apr. 29, 1942	8.18	4,480		Apr. 3, 1945	8.09	4,370
1943	May 8, 1943	8.20	4,510	1946	Mar. 15, 1946	10.48	2,150
	May 12, 1943	9.09	5,820		Mar. 29, 1946	7.35	3,540
	June 16, 1943	10.66	8,630				
				1947	Apr. 13, 1947	7.69	3,780
1944	Nov. 9, 1943	7.76	3,950		May 6, 1947	8.35	4,660
	May 1, 1944	7.62	3,780		May 13, 1947	8.02	4,140
	May 5, 1944	9.16	6,000				

Peak stages and discharges of Diamond River near Wentworth Location, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 1, 1948	7.58	3,670	1955	Apr. 15, 1955	8.50	4,850
1949	Apr. 23, 1949	7.04	3,060		May 5, 1955	7.60	3,690
1950	Apr. 21, 1950	8.37	4,780	1956	May 13, 1956	8.38	4,680
1951	Nov. 26, 1950	7.77	4,020	1957	Apr. 21, 1957	8.00	4,180
	Apr. 29, 1951	7.60	3,820				
1952	Apr. 20, 1952	7.77	4,020	1958	Dec. 21, 1957	8.05	4,240
	Apr. 23, 1952	7.56	3,770		Apr. 23, 1958	8.32	4,600
	June 2, 1952	7.85	4,120	1959	June 15, 1959	7.29	3,320
1953	Mar. 27, 1953	9.12	5,880	1960	Oct. 25, 1959	-	4,400
1954	Apr. 23, 1954	10.27	7,890		Nov. 28, 1959	7.81	3,940
	Sept.11, 1954	9.28	6,100		Apr. 18, 1960	9.01	5,640

535. Androscoggin River at Errol, N.H.
(Published as "at Errol Dam" prior to 1922)

Location.--Lat 44°46'55", long 71°07'45", on right bank 0.4 mile downstream from Errol Dam, 0.4 mile northeast of Errol, Coos County, and 0.6 mile upstream from Clear Stream.

Drainage area.--1,045 sq mi.

Gage.--Nonrecording at Errol Dam at datum 5.0 ft higher prior to Dec. 8, 1943; recording at present site and datum thereafter. Datum of gage is 1,277.30 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Prior to 1944, discharges determined by flow through gate of dam; thereafter, defined by current-meter measurements below 10,800 cfs and extended above by logarithmic plotting.

Bankfull stage.--12 ft.

Remarks.--Flow regulated by Kennebago, Mooselookmeguntic, Rangeley, Upper and Lower Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 20,433,000,000 cu ft). Only annual maximum daily discharges are shown prior to 1944; annual peaks thereafter.

Peak stages and discharges a/

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	May 22, 1906	-	6,320	1933	May 9, 1933	-	13,200
1907	May 4, 1907	-	7,430	1934	Apr. 21, 1934	-	9,040
1908	Nov. 9, 1907	-	8,760	1935	June 21, 1935	-	8,170
1909	May 19, 1909	-	9,420				
1910	Apr. 9, 1910	-	6,840	1936	Mar. 21, 1936	-	12,400
				1937	May 17, 1937	-	9,600
1911	May 3, 1911	-	4,370	1938	Apr. 22, 1938	-	9,600
1912	June 4, 1912	-	6,020	1939	May 11, 1939	-	8,030
1913	Apr. 29, 30, May 1,2,1913	-	6,700	1940	May 4, 1940	-	10,000
1914	May 11, 1914	-	7,080	1941	Apr. 17, 1941	-	6,730
1915	Nov. 19, 1914	-	1,880	1942	June 19, 1942	-	12,700
				1943	June 18, 1943	-	15,700
1916	June 13, 1916	-	6,340	1944	May 6, 1944	6.50	8,400
1917	June 21, 1917	-	12,500	1945	May 20, 1945	7.14	9,760
1918	Dec. 4, 1917	-	2,990				
1919	May 26, 1919	-	7,160	1946	May 18, 1946	5.45	6,230
1920	May 26, 1920	-	5,120	1947	June 4, 1947	7.85	11,400
				1948	May 24, 1948	4.59	4,660
1921	Mar. 29, 1921	-	4,220	1949	Apr. 23, 1949	4.41	4,590
1922	June 22, 1922	-	6,850	1950	Apr. 22, 1950	4.67	4,860
1923	May 2, 1923	-	9,710				
1924	Sept.12, 1924	-	5,120	1951	May 5, 1951	5.46	6,220
1925	Nov. 24, 1924	-	3,350	1952	June 4, 1952	6.69	8,780
				1953	Mar. 31, 1953	5.62	6,540
1926	Nov. 18, 1925	-	9,400	1954	Sept.15, 1954	7.65	10,900
1927	Apr. 24, 1927	-	3,950	1955	May 9, 1955	7.08	9,630
1928	May 26,27,1928	-	13,000				
1929	May 10, 1929	-	15,300	1956	May 14, 1956	5.04	5,460
1930	June 12, 1930	-	7,460	1957	Aug. 20, 1957	2.79	2,010
				1958	Apr. 26, 1958	6.09	7,520
1931	Apr. 15, 1931	-	2,770	1959	June 19, 1959	6.06	7,460
1932	May 5, 1932	-	7,760	1960	May 14, 1960	6.90	9,230

a Annual maximum daily discharges are shown prior to 1944.

538. Androscoggin River at Berlin, N.H.

Location.--Lat 44°28'25", long 71°10'15", at Riverside plant of Brown Paper Co. Berlin, Coos County, and three-quarters of a mile upstream from Dead River.

Drainage area.--1,350 sq mi.

Gage.--Nonrecording. At different site and datum prior to Nov. 21, 1921. Datum of gage is 1,010 ft above mean sea level (levels by Jackson and Moreland survey).

Stage-discharge relation.--Daily discharge determined by computation of flow over dam and through wheels and gates.

Remarks.--Flow regulated by Mooselookmeguntic, Upper and Lower Richardson, Aziscohos and Umbagog Lakes (combined usable capacity, 18,373,000,000 cu ft). Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 28, 1913	-	12,100	1921	Mar. 28, 1921	-	8,000
1914	May 10, 1914	-	14,300	1922	Apr. 18, 1922	-	9,300
1915	July 9, 1915	-	4,300	1923	Apr. 30, 1923	-	20,000
				1924	May 14, 1924	-	6,900
1916	June 11,12,1916	-	9,500	1925	Mar. 29, 1925	-	6,000
1917	June 18, 1917	-	20,000				
1918	Oct. 31, 1917	-	6,300	1926	May 4, 1926	-	11,000
1919	May 22,23,1919	-	10,000	1927	Apr. 23, 1927	-	6,550
1920	Apr. 24, 1920	-	5,800	1928	May 25,26,1928	-	13,000

540. Androscoggin River near Gorham, N.H.

Location.--Lat 44°26'30", long 71°11'15", on right bank at Pulsifer Rips, 2 miles downstream from Dead River and 4 miles upstream from Gorham, Coos County.

Drainage area.--1,363 sq mi.

Gage.--Recording. Datum of gage is 832.88 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.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by powerplants above station and by Kenrebago, Mooselookmeguntic, Rangeley, Upper and Lower Richardson, Aziscohos, and Umbagog Lakes (total capacity, 20,433,000,000 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)
1929	May 4, 1929	8.38	13,900	1945	Mar. 30, 1945	8.34	12,700
1930	May 27, 1930	7.26	10,100				
				1946	Mar. 30, 1946	6.70	7,790
1931	June 10, 1931	6.19	6,820	1947	June 4, 1947	8.91	14,200
1932	May 4, 1932	6.94	8,820	1948	Apr. 2, 1948	6.54	7,180
1933	May 4, 1933	8.39	13,900	1949	Apr. 16, 1949	6.54	7,280
1934	Apr. 20, 1934	8.20	13,200	1950	Apr. 21, 1950	7.52	9,800
1935	May 1, 1935	7.67	11,500				
				1951	Apr. 12, 1951	7.59	9,980
1936	Mar. 22, 1936	9.99	19,900	1952	June 5, 1952	7.79	10,500
1937	May 16, 1937	8.89	15,500	1953	Mar. 27, 1953	9.93	17,900
1938	Apr. 21, 1938	7.87	11,900	1954	Apr. 22, 1954	9.16	15,100
1939	May 10, 1939	8.53	14,400	1955	May 9, 1955	7.97	11,000
1940	May 4, 1940	8.85	15,500				
				1956	May 15, 1956	6.93	8,250
1941	Apr. 17, 1941	7.24	9,940	1957	Apr. 22, 1957	5.16	4,340
1942	June 18, 1942	8.55	14,800	1958	Apr. 23, 1958	8.80	13,800
1943	June 19, 1943	8.79	14,500	1959	June 19, 1959	7.18	8,900
1944	May 7, 1944	8.15	12,400	1960	May 16, 1960	8.03	11,200

545. Androscoggin River at Rumford, Maine

Location.--Lat 44°32'45", long 70°32'35", at upper powerplant of Rumford Falls Power Co., Rumford, Oxford County, 0.8 mile upstream from Swift River.

Drainage area.--2,067 sq mi.

Gage.--Recording in pond above dam and nonrecording in tailrace of upper powerplant. Datum of headwater gage is 1,735 ft above mean sea level, datum of 1929. Altitude of lower gage is 505 ft (from river-profile map). Gages in pond and tailrace of middle plant 2,300 ft downstream at different datum prior to Aug. 1, 1937.

Stage-discharge relation.--Powerplant record.

Remarks.--Peak discharges affected by storage in several lakes in headwaters. Discharge figures listed are daily means except those otherwise footnoted. Base for partial-duration series, 14,000 cfs.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1892	June 29, 1892	-	19,900	1905	July 31, 1905	-	17,500
	July 5, 1892	-	17,500				
				1906	May 28, 1906	-	15,400
1893	Nov. 17, 1892	-	24,500				
	Nov. 19, 1892	-	16,300	1907	May 1, 1907	-	23,800
	May 5, 1893	-	25,500				
	May 15, 1893	-	28,500	1908	Oct. 29, 1907	-	14,000
	May 18, 1893	-	38,100		Nov. 3, 1907	-	23,000
					Nov. 7, 1907	-	22,800
1894	Apr. 21, 1894	-	22,200		Dec. 11, 1907	-	14,900
	Apr. 28, 1894	-	16,900		May 1, 1908	-	18,700
	May 3, 1894	-	14,200				
	May 30, 1894	-	19,200	1909	Apr. 15, 1909	-	23,600
					Apr. 20, 1909	-	20,000
1895	Apr. 9, 1895	-	15,000		May 11, 1909	-	14,600
	Apr. 15, 1895	10.75	55,200		May 17, 1909	-	16,100
	Apr. 22, 1895	-	16,500				
	May 13, 1895	-	17,100	1910	Jan. 23, 1910	-	14,200
					Apr. 27, 1910	-	14,300
1896	Nov. 27, 1895	-	15,600				
	Jan. 1, 1896	-	21,500	1911	May 2, 1911	-	15,000
	Mar. 2, 1896	-	39,000				
	Apr. 17, 1896	-	27,400	1912	Apr. 17, 1912	-	17,000
	Apr. 21, 1896	-	25,300				
				1913	Mar. 22, 1913	-	15,900
1897	Apr. 26, 1897	-	19,000		Mar. 26, 1913	-	19,100
	May 1, 1897	-	16,400		Apr. 1, 1913	-	14,700
	May 4, 1897	-	19,300				
	May 14, 1897	-	19,200	1914	Nov. 10, 1913	-	22,000
	June 11, 1897	-	14,800		Apr. 21, 1914	-	23,900
	July 15, 1897	-	22,900		May 10, 1914	-	16,100
1898	Apr. 25, 1898	-	16,700	1915	July 9, 1915	-	17,100
	May 13, 1898	-	15,600				
				1916	Apr. 24, 1916	-	14,900
1899	Apr. 27, 1899	-	23,300		May 18, 1916	-	19,500
	May 2, 1899	-	24,100		June 10, 1916	-	15,900
1900	Apr. 20, 1900	-	22,000	1917	June 12, 1917	-	21,700
	May 1, 1900	-	16,200		June 18, 1917	-	30,300
	May 4, 1900	-	17,100				
	May 20, 1900	-	24,500	1918	Oct. 31, 1917	-	15,200
1901	Apr. 9, 1901	-	17,100	1919	May 23, 1919	-	14,600
	Apr. 22, 1901	-	32,700				
	May 12, 1901	-	16,500	1920	Apr. 14, 1920	-	18,600
	May 20, 1901	-	16,800				
				1921	Mar. 22, 1921	-	16,800
1902	Dec. 15, 1901	-	27,800				
	Mar. 3, 1902	-	17,200	1922	Apr. 12, 1922	-	21,900
	Mar. 30, 1902	-	18,500		Apr. 19, 1922	-	18,100
	May 1, 1902	-	14,600		June 19, 1922	-	16,000
	May 28, 1902	-	19,500		June 23, 1922	-	17,200
					June 30, 1922	-	16,000
1903	Mar. 21, 1903	-	19,000				
	Mar. 25, 1903	-	19,800	1923	Apr.22-23,1923	-	18,500
	June 13, 1903	-	26,800		Apr. 30, 1923	-	33,800
1904	Apr. 30, 1904	-	18,200	1924	May 1, 1924	-	19,900
	May 10, 1904	-	14,400		May 13, 1924	-	17,200
	May 17, 1904	-	14,900		Sept.11, 1924	-	26,200

Maximum daily mean discharges of Androscoggin River at Rumford, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Nov. 24, 1924	-	23,400
	Feb. 13, 1925	-	14,200
	Mar. 29, 1925	-	21,400
1926	May 4, 1926	-	20,400
1927	Apr. 23, 1927	-	11,600
1928	Nov. 5, 1927	-	39,100
	Apr. 8, 1928	-	21,600
	May 25, 1928	-	19,000
1929	Apr. 9, 1929	-	14,300
	Apr. 29, 1929	-	14,700
	May 4, 1929	-	22,000
1930	Apr. 8, 1930	-	20,600
	May 27, 1930	-	14,600
1931	May 24, 1931	-	14,100
	June 10, 1931	-	20,200
1932	Apr. 13, 1932	-	18,700
	Sept.17, 1932	-	24,000
1933	Nov. 20, 1932	-	14,100
	Apr. 19, 1933	-	24,500
	May 4, 1933	-	22,200
1934	Apr. 13, 1934	-	23,900
	Apr. 20, 1934	-	21,500
	Apr. 26, 1934	-	18,500
	May 4, 1934	-	14,300
1935	Apr. 29, 1935	-	19,000
1936	Mar. 13, 1936	-	a31,400
	Mar. 19, 1936	-	a68,700
	Apr. 7, 1936	-	17,900
	May 4, 1936	-	18,800
1937	Apr. 30, 1937	-	21,400
	May 8, 1937	-	26,700
	May 16, 1937	-	26,400
	May 21, 1937	-	23,500
1938	Oct. 21, 1937	-	15,600
	Nov. 14, 1937	-	15,100
	Jan. 26, 1938	-	15,500
	Apr. 21, 1938	-	18,400
	Sept.22, 1938	-	25,500
1939	Dec. 7, 1938	-	16,600
	Apr. 23, 1939	-	18,100
	May 10, 1939	-	23,100
1940	May 4, 1940	-	32,200
	May 29, 1940	-	15,000
1941	Apr. 16, 1941	-	14,500
1942	Apr. 16, 1942	-	14,400
1942	Apr. 26, 1942	-	22,200
	June 15, 1942	-	26,600
1943	Apr. 26, 1943	-	15,300
	May 13, 1943	-	22,300
	June 20, 1943	-	17,100
1944	Oct. 17, 1943	-	14,400
	Nov. 10, 1943	-	20,300
	May 6, 1944	-	23,700
	June 25, 1944	-	14,900
1945	Mar. 30, 1945	-	26,100
	May 14, 1945	-	19,200
1946	Mar. 30, 1946	-	16,000
1947	Feb. 5, 1947	-	b14,400
	Apr. 13, 1947	-	20,300
	May 7, 1947	-	21,800
	June 4, 1947	-	22,400
1948	Apr. 2, 1948	-	15,500
1949	Apr. 16, 1949	-	12,200
1950	Apr. 21, 1950	-	33,400
1951	Nov. 27, 1950	-	27,800
	Dec. 5, 1950	-	18,300
	Dec. 9, 1950	-	18,800
	Apr. 4, 1951	-	23,400
	Apr. 11, 1951	-	21,600
	Apr. 27, 1951	-	16,300
1952	Nov. 4, 1951	-	15,900
	Apr. 21, 1952	-	21,200
	May 13, 1952	-	17,600
	June 2, 1952	-	26,000
1953	Mar. 27, 1953	-	52,800
	Mar. 31, 1953	-	32,700
1954	Nov. 26, 1953	-	14,600
	Apr. 23, 1954	-	28,900
	May 10, 1954	-	28,600
	Sept.12, 1954	-	27,400
1955	Oct. 16, 1954	-	19,200
	Apr. 16, 1955	-	21,400
	May 9, 1955	-	15,300
1956	Apr. 30, 1956	-	15,400
1957	Apr. 21, 1957	-	13,100
1958	Apr. 23, 1958	-	32,500
1959	June 19, 1959	-	15,700
1960	Oct. 25, 1959	-	41,700

a Revised by Rumford Falls Power Co.
b Maximum hourly discharge.

550. Swift River near Roxbury, Maine

Location.--Lat 44°38'33", long 70°35'15", on left bank 2½ miles downstream from Roxbury, Oxford County, and 6 miles upstream from mouth.

Drainage area.--Area, 95.8 sq mi. Area of lakes, reservoirs, and ponds, 0.19 sq mi. Length of main stream, 18.2 miles. Average slope above gage, 80.7 ft per mile. Average tributary slope, 454 ft per mile. Average land slope, 1,044 ft per mile. Stream density, 1.57 miles per square mile. Mean altitude of basin, 1,760 ft.

Gage.--Recording. Datum of gage is 615.67 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--Not subject to overflow.

Remarks.--Peak discharge not materially affected by artificial storage. Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Apr. 7, 1930	7.52	4,570
	May 3, 1930	6.15	2,740
1931	May 24, 1931	6.85	3,580
	June 9, 1931	6.00	2,560
1932	Apr. 12, 1932	6.48	3,190
	Sept.17, 1932	12.58	13,000
1933	Nov. 2, 1932	5.98	2,560
	Nov. 20, 1932	7.17	4,130
	Apr. 18, 1933	6.00	2,560
	May 2, 1933	6.51	3,190
1934	Apr. 12, 1934	6.67	3,450
	Apr. 17, 1934	6.40	3,060
	Apr. 20, 1934	6.55	3,260
1935	Apr. 28, 1935	6.83	3,590
1936	Mar. 12, 1936	11.02	10,100
	Mar. 19, 1936	11.20	10,500
	Mar. 22, 1936	7.51	4,550
1937	Oct. 17, 1936	6.96	4,240
	Dec. 20, 1936	7.25	4,680
	Apr. 29, 1937	6.67	3,800
	May 7, 1937	8.47	5,070
	May 15, 1937	5.95	2,780
	May 20, 1937	6.67	3,800
1938	Oct. 21, 1937	8.99	7,680
	Jan. 26, 1938	6.15	3,050
	Apr. 20, 1938	6.10	2,980
	Sept.21, 1938	6.85	4,080
1939	Dec. 6, 1938	6.42	3,430
	May 7, 1939	6.53	3,580
1940	May 3, 1940	7.59	4,840
	May 28, 1940	5.90	2,870
1941	Apr. 15, 1941	5.45	2,380
1942	Apr. 25, 1942	6.59	3,700
	June 15, 1942	12.42	14,500
	June 17, 1942	6.36	3,120
1943	May 7, 1943	6.10	3,060
	May 12, 1943	6.75	4,010
	May 26, 1943	6.04	3,000
	June 16, 1943	10.26	10,200
1944	Oct. 17, 1943	8.48	6,780
	Nov. 9, 1943	10.10	9,800
	May 4, 1944	7.30	4,750
1945	Mar. 29, 1945	7.27	4,750
	Apr. 3, 1945	6.09	3,100
1946	Oct. 7, 1945	6.50	3,620
	Mar. 29, 1946	5.95	2,920
1946	Sept.30, 1946	6.80	4,020
1947	Apr. 12, 1947	6.30	3,360
	May 4, 1947	6.80	4,020
	May 6, 1947	6.66	3,830
	May 13, 1947	6.78	3,990
	June 3, 1947	6.84	4,080
1948	Apr. 1, 1948	6.58	3,750
1949	May 3, 1949	5.01	1,900
1950	Apr. 21, 1950	10.48	10,800
1951	Nov. 26, 1950	10.76	11,400
	Dec. 5, 1950	5.77	2,710
	Apr. 3, 1951	8.07	5,970
	Apr. 9, 1951	5.60	2,510
	Apr. 26, 1951	5.64	2,560
1952	Nov. 3, 1951	8.88	7,410
	Apr. 20, 1952	6.30	3,360
	May 11, 1952	7.51	5,090
	June 2, 1952	9.21	8,060
1953	Mar. 27, 1953	10.25	10,200
	Mar. 30, 1953	7.80	5,460
1954	Nov. 26, 1953	8.43	6,550
	Dec. 7, 1953	6.29	3,240
	Apr. 18, 1954	5.82	2,680
	Apr. 22, 1954	7.26	4,590
	May 9, 1954	7.92	5,660
	Aug. 31, 1954	5.98	2,870
	Sept.11, 1954	10.14	9,970
1955	Oct. 16, 1954	8.26	6,250
	Apr. 15, 1955	5.96	2,840
	May 5, 1955	6.31	3,260
1956	Jan. 10, 1956	6.86	-
	Jan. 10, 1956	6.09	3,000
1957	Jan. 23, 1957	a6.60	-
	Apr. 21, 1957	6.12	3,030
1958	Dec. 21, 1957	-	7,200
	Dec. 27, 1957	6.43	3,420
	Apr. 23, 1958	6.97	4,160
	May 12, 1958	5.62	2,460
1959	June 15, 1959	5.60	2,440
1960	Oct. 24, 1959	12.87	16,800
	Nov. 25, 1959	6.47	3,470
	Nov. 28, 1959	7.09	4,340
	Apr. 5, 1960	5.60	2,440
	Apr. 18, 1960	6.02	2,910
	May 10, 1960	7.61	5,150
	May 13, 1960	6.19	3,120
	May 25, 1960	5.71	2,560
	Sept.12, 1960	8.22	6,180

a Backwater from ice.

555. Nezinscot River at Turner Center, Maine

Location.--Lat 44°16'10", long 70°13'50", on left bank 500 ft upstream from upper highway bridge at Turner Center, Androscoggin County, and 3 miles upstream from mouth.

Drainage area.--Area, 171 sq mi. Area of lakes, reservoirs, and ponds, 1.62 sq mi. Length of main stream, 26.4 miles. Average slope above gage, 7.61 ft per mile.

Gage.--Recording. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Frequent shifts in the relation occur.

Bankfull stage.--8 ft.

Historical data.--Flood of March 1936 reached a stage of 21 ft, from floodmarks, affected by backwater from ice (discharge, 10,000 cfs, by flow-over-dam measurement plus inflow).

Remarks.--Peak discharge not materially affected by artificial or natural storage. 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)
1942	June 18, 1942	5.82	3,290	1952	Nov. 8, 1951	5.00	2,390
					Apr. 7, 1952	5.87	3,560
1943	May 27, 1943	4.31	1,660		May 13, 1952	5.00	2,390
1944	Oct. 18, 1943	4.69	2,130	1953	Mar. 27, 1953	11.18	13,900
	Nov. 10, 1943	5.28	3,050		Mar. 31, 1953	6.20	4,070
	Apr. 12, 1944	4.69	1,950		Apr. 18, 1953	4.72	2,060
	Apr. 26, 1944	4.47	1,720				
				1954	Apr. 19, 1954	6.26	4,170
1945	Dec. 1, 1944	4.74	2,000		May 10, 1954	5.75	3,380
	Mar. 30, 1945	5.22	2,550		Sept.12, 1954	7.45	6,260
	Apr. 5, 1945	4.75	2,020				
	May 14, 1945	5.16	2,500	1955	Oct. 17, 1954	4.43	1,750
	May 19, 1945	4.68	1,940		Nov. 4, 1954	4.61	1,940
					Dec. 19, 1954	5.25	2,720
1946	Oct. 8, 1945	4.40	1,650		Apr. 8, 1955	4.44	1,760
	Mar. 16, 1946	4.48	1,750				
				1956	Jan. 13, 1956	4.88	2,250
1947	Oct. 1, 1946	4.88	2,180		Apr. 18, 1956	5.12	2,550
	Feb. 6, 1947	5.21	-		Apr. 30, 1956	4.39	1,710
	Apr. 13, 1947	4.64	2,100				
	May 5, 1947	4.40	1,810	1957	Nov. 23, 1956	3.08	668
1948	Mar. 28, 1948	4.36	1,760	1958	Dec. 22, 1957	4.98	2,370
	May 19, 1948	5.27	2,970		Apr. 24, 1958	5.47	3,000
1949	Jan. 1, 1949	5.45	3,300	1959	Apr. 4, 1959	6.42	4,430
	Mar. 29, 1949	4.75	2,280				
				1960	Oct. 26, 1959	4.87	2,230
1950	Apr. 21, 1950	6.04	3,810		Nov. 26, 1959	4.75	2,100
					Nov. 29, 1959	4.50	1,820
1951	Nov. 27, 1950	5.66	3,250		Apr. 6, 1960	6.21	4,090
	Dec. 10, 1950	5.30	2,780		Apr. 14, 1960	4.60	1,930
	Mar. 21, 1951	4.40	1,720		May 10, 1960	4.98	2,370
	Apr. 4, 1951	7.70	6,920		May 14, 1960	5.84	3,510
	Apr. 10, 1951	4.67	2,010		May 25, 1960	4.53	1,850
1952	Nov. 4, 1951	5.27	2,740				

570. Little Androscoggin River near South Paris, Maine

Location.--Lat 44°17'05", long 70°32'10", on right bank just upstream from Biscoe Falls and 4½ miles upstream from South Paris, Oxford County.

Drainage area.--Area, 76.2 sq mi. Length of main stream, 15.3 miles. Average slope above gage, 50.6 ft per mile. Average tributary slope, 258 ft per mile. Average land slope, 818 ft per mile. Stream density, 2.34 miles per square mile. Mean altitude of basin, 935 ft.

Gage.--Nonrecording on opposite bank September 1913 to April 1924; recording since October 1931 at same datum. Datum of gage is 394.48 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs. Shifts in the relation have occurred owing to progressive disintegration of an old dam control.

Remarks.--Peak discharge not materially affected by artificial storage. 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)
1914	Apr. 21, 1914	8.95	2,720	1937	May 20, 1937	7.43	1,870
1915	Apr. 12, 1915	7.37	1,060	1938	Oct. 24, 1937	6.27	1,140
	May 1, 1915	7.65	1,320		Nov. 14, 1937	6.72	1,340
	July 9, 1915	9.31	3,150		Nov. 29, 1937	7.87	2,220
					Dec. 7, 1937	6.76	1,370
1916	Apr. 3, 1916	7.32	1,010		Jan. 25, 1938	9.00	3,420
	Apr. 24, 1916	7.83	1,500		Apr. 16, 1938	6.07	1,030
	May 18, 1916	8.77	2,500				
	June 10, 1916	7.45	1,130	1939	Dec. 6, 1938	6.45	1,200
					Apr. 24, 1939	7.52	1,910
1917	Apr. 7, 1917	7.83	1,500		Apr. 29, 1939	6.22	1,090
	June 12, 1917	8.47	2,150				
	June 17, 1917	8.30	1,970	1940	Apr. 13, 1940	7.77	2,180
					May 3, 1940	6.89	1,470
1918	Apr. 3, 1918	7.63	1,300				
	June 17, 1918	8.30	1,970	1941	Feb. 8, 1941	5.12	714
	Sept.26, 1918	8.40	2,070				
				1942	June 15, 1942	9.98	3,480
1919	Mar. 24, 1919	7.37	1,060		June 17, 1942	9.12	2,700
	Mar. 29, 1919	7.63	1,300				
	May 23, 1919	7.60	1,280	1943	May 27, 1943	6.41	1,010
1920	Apr. 6, 1920	8.40	2,070	1944	Oct. 17, 1943	7.08	1,360
	Apr. 14, 1920	10.00	3,980		Nov. 9, 1943	8.96	2,620
	Apr. 22, 1920	7.86	1,530				
				1945	Mar. 30, 1945	7.38	1,530
1921	Dec. 15, 1920	9.18	3,000		Apr. 5, 1945	6.78	1,210
					May 14, 1945	7.18	1,410
1922	Apr. 12, 1922	8.50	2,400		May 19, 1945	6.48	1,060
1923	Apr. 29, 1923	9.10	3,000	1946	Oct. 8, 1945	6.85	1,240
					Aug. 27, 1946	6.90	1,260
1932	Apr. 1, 1932	5.79	1,030				
	Apr. 8, 1932	5.90	1,070	1947	Oct. 1, 1946	8.25	2,040
	Apr. 12, 1932	8.10	1,940		Feb. 5, 1947	6.40	1,010
	Sept.17, 1932	8.98	2,380		Apr. 13, 1947	7.23	1,440
					May 5, 1947	6.71	1,150
1933	Apr. 5, 1933	5.71	1,140				
	Apr. 8, 1933	6.54	1,520	1948	Mar. 28, 1948	6.73	1,180
	Apr. 18, 1933	9.15	3,150		Apr. 2, 1948	6.70	1,150
					May 18, 1948	7.30	1,470
1934	Apr. 13, 1934	9.46	3,340				
	Apr. 17, 1934	6.42	1,470	1949	Jan. 1, 1949	7.75	1,740
	Apr. 20, 1934	5.80	1,180		Mar. 29, 1949	6.63	1,120
1935	Apr. 20, 1935	5.96	910	1950	Apr. 21, 1950	9.42	2,960
1936	Nov. 29, 1935	6.25	1,030	1951	Nov. 26, 1950	9.24	2,810
	Mar. 13, 1936	10.80	5,720		Dec. 9, 1950	7.30	1,470
	Mar. 19, 1936	11.72	6,980		Apr. 1, 1951	7.62	1,660
	Mar. 22, 1936	8.92	3,310		Apr. 3, 1951	10.20	3,660
	Mar. 28, 1936	6.19	1,120				
	Apr. 7, 1936	7.80	2,180	1952	Nov. 4, 1951	8.11	1,980
					Nov. 8, 1951	7.19	1,400
1937	Dec. 21, 1936	7.25	1,710		Apr. 6, 1952	7.31	1,600
	Feb. 15, 1937	7.34	1,790		May 12, 1952	7.00	1,410
	Apr. 15, 1937	6.02	1,040		June 2, 1952	8.09	2,120
	Apr. 29, 1937	6.86	1,430				
	May 8, 1937	6.47	1,220	1953	Mar. 25, 1953	9.06	3,350
	May 15, 1937	6.97	1,500		Mar. 27, 1953	12.41	8,000

Peak stages and discharges of Little Androscoggin River near South Paris Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 30, 1953	7.80	2,220	1958	Dec. 21, 1957	7.49	2,090
					Apr. 23, 1958	7.20	1,860
1954	Apr. 18, 1954	8.37	2,710		Apr. 30, 1958	6.23	1,220
	May 9, 1954	7.98	2,360				
	Sept.12, 1954	8.93	3,220	1959	Apr. 3, 1959	7.44	2,200
1955	Nov. 4, 1954	6.01	1,040	1960	Oct. 25, 1959	7.26	2,040
	Dec. 19, 1954	7.41	1,950		Nov. 25, 1959	6.66	1,590
	Apr. 16, 1955	5.95	1,000		Nov. 29, 1959	6.59	1,530
					Apr. 5, 1960	7.35	2,110
1956	Jan. 13, 1956	5.98	1,020		Apr. 16, 1960	6.00	1,140
	Apr. 17, 1956	6.30	1,220		May 10, 1960	6.02	1,150
					May 14, 1960	6.56	1,510
1957	Nov. 22, 1956	4.55	436				

585. Little Androscoggin River near Auburn, Maine

Location.--Lat 44°03'50", long 70°16'25", on right bank just upstream from highway bridge at Littlefields, 3 miles southwest of Auburn, Androscoggin County, and 3.6 miles upstream from mouth.

Drainage area.--328 sq mi.

Gage.-- Recording. Altitude of gage is 215 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs and extended above on basis of flow-over-dam measurement at 16,800 cfs.

Bankfull stage.--13 ft.

Remarks.--Peak discharges affected by natural and artificial storage. Base for partial-duration series, 2,000 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 20, 1936	-	a16,800	1949	Mar. 30, 1949	5.86	2,570
					Apr. 7, 1949	5.43	2,190
1941	Feb. 9, 1941	b4.74	1,340				
				1950	Apr. 6, 1950	5.58	2,320
1942	Mar. 9, 1942	b5.70	2,110		Apr. 22, 1950	7.90	4,540
	June 19, 1942	9.18	5,800				
				1951	Nov. 28, 1950	6.54	3,200
1943	Dec. 4, 1942	5.98	2,580		Dec. 11, 1950	6.33	3,010
	May 13, 1943	5.23	1,990		Apr. 3, 1951	8.72	5,390
	May 28, 1943	5.25	2,010				
				1952	Nov. 5, 1951	6.35	3,020
1944	Oct. 19, 1943	5.21	1,980		Nov. 9, 1951	6.37	3,040
	Nov. 11, 1943	6.52	3,050		Apr. 8, 1952	8.09	4,980
	Apr. 13, 1944	6.20	2,780		May 14, 1952	5.78	2,470
	Apr. 21, 1944	5.44	2,160		June 3, 1952	5.72	2,420
	Apr. 26, 1944	5.65	2,320				
				1953	Mar. 16, 1953	-	c2,620
1945	Nov. 30, 1944	5.89	2,510		Mar. 28, 1953	14.76	16,500
	Mar. 22, 1945	5.43	2,150		Apr. 18, 1953	-	c3,060
	Mar. 31, 1945	6.89	3,540				
	Apr. 5, 1945	6.44	3,110	1954	Mar. 5, 1954	-	c2,240
	May 16, 1945	6.80	3,440		Apr. 19, 1954	8.34	5,300
	May 20, 1945	6.38	3,050		May 11, 1954	-	c4,610
					Sept.13, 1954	-	c4,940
1946	Nov. 23, 1945	5.23	2,010				
	Mar. 17, 1946	6.17	2,850	1955	Nov. 5, 1954	-	c2,210
	Mar. 23, 1946	5.44	2,200		Dec. 20, 1954	6.23	2,900
	Aug. 29, 1946	5.24	2,020		Apr. 8, 1955	-	c2,310
1947	Oct. 2, 1946	5.85	2,560	1956	Jan. 13, 1956	-	c2,670
	Feb. 7, 1947	5.22	2,000		Apr. 18, 1956	6.83	3,510
	Mar. 26, 1947	5.27	2,040		May 1, 1956	-	c2,290
	Apr. 14, 1947	5.97	2,670				
	May 6, 1947	5.78	2,500	1957	Mar. 24, 1957	3.80	1,000
				1958	Apr. 24, 1958	6.77	3,460
1948	Mar. 24, 1948	5.35	2,120	1959	Apr. 5, 1959	8.10	4,990
	May 19, 1948	6.45	3,070	1960	Apr. 7, 1960	8.65	5,700
1949	Jan. 2, 1949	6.80	3,440				

a At mouth, 3.6 miles downstream; maximum known. b Backwater from ice.
c Daily mean discharge.

590. Androscoggin River near Auburn, Maine

Location.--Lat 44°04'15", long 70°12'35", on right bank 1½ miles downstream from Little Androscoggin River and 2 miles downstream from north bridge between Auburn and Lewiston, Androscoggin County.

Drainage area.--3,257 sq mi.

Gage.--Recording. Datum of gage is 109.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 73,000 cfs and extended above by logarithmic plotting on basis of slope-area measurement at 135,000 cfs and computation of flow over dam.

Bankfull stage.--19.0 ft.

Remarks.--Flow regulated by powerplants above station and by Rangeley-Umbagog series of lakes, Kennebago, Aziscohos, Pennesseewassee, Thompson, and Auburn Lakes, and Gulf Island Pond (total capacity, 28,100,000,000 cu ft). Base for partial-duration series, 20,000 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 10, 1929	9.42	25,300	1941	Apr. 17, 1941	8.33	20,100
	Apr. 19, 1929	8.58	21,000				
	May 4, 1929	11.98	40,100	1942	Apr. 16, 1942	9.07	24,000
					Apr. 26, 1942	10.56	31,700
1930	Apr. 8, 1930	12.14	38,900		June 15, 1942	12.68	41,500
					June 18, 1942	12.34	39,800
1931	Apr. 13, 1931	8.66	21,600				
	June 11, 1931	-	29,000	1943	Apr. 27, 1943	9.01	23,500
					May 13, 1943	10.54	31,200
1932	Apr. 13, 1932	11.24	35,400		May 27, 1943	9.04	23,500
	Sept.18, 1932	11.26	36,000				
				1944	Oct. 18, 1943	10.34	30,200
1933	Nov. 20, 1932	9.23	24,200		Nov. 10, 1943	12.10	38,900
	Apr. 8, 1933	9.46	25,800		Apr. 12, 1944	8.40	20,500
	Apr. 19, 1933	13.62	45,400		Apr. 26, 1944	8.50	21,000
	May 5, 1933	9.92	28,000		May 2, 1944	9.53	26,100
					May 5, 1944	10.18	29,700
1934	Apr. 13, 1934	13.54	45,000		June 26, 1944	9.41	25,600
	Apr. 26, 1934	9.98	28,600				
	May 5, 1934	8.50	20,600	1945	Mar. 19, 1945	8.36	20,500
	Sept.18, 1934	8.97	23,100		Mar. 31, 1945	12.15	39,300
					May 15, 1945	10.84	32,700
1935	Apr. 17, 1935	8.32	20,100				
	Apr. 29, 1935	9.93	28,200	1946	Oct. 8, 1945	8.89	23,000
	June 12, 1935	8.55	21,500		Mar. 16, 1946	9.30	25,100
	June 21, 1935	8.41	20,500		Mar. 23, 1946	8.98	23,500
					Mar. 30, 1946	10.15	29,700
1936	Mar. 14, 1936	19.31	65,800				
	Mar. 20, 1936	27.57	135,000	1947	Oct. 1, 1946	9.82	27,700
	May 5, 1936	9.30	25,100		Feb. 6, 1947	9.19	24,500
					Apr. 13, 1947	11.24	34,700
1937	Oct. 18, 1936	8.45	20,500		May 10, 1947	11.18	34,700
	Dec. 22, 1936	10.07	29,200		June 4, 1947	10.24	29,700
	Apr. 17, 1937	8.81	22,500				
	Apr. 30, 1937	11.65	36,600	1948	Mar. 24, 1948	8.79	22,400
	May 8, 1937	12.50	40,700		Mar. 29, 1948	8.64	21,700
	May 16, 1937	12.30	39,800		Apr. 2, 1948	10.00	28,700
	May 21, 1937	12.24	39,300		May 18, 1948	10.20	29,700
1938	Oct. 21, 1937	9.15	24,500	1949	Jan. 1, 1949	11.22	34,800
	Oct. 24, 1937	8.30	20,100		Mar. 29, 1949	8.86	22,800
	Nov. 15, 1937	10.98	33,700				
	Nov. 30, 1937	9.89	28,200	1950	Apr. 6, 1950	8.48	21,100
	Jan. 26, 1938	11.60	36,600		Apr. 22, 1950	14.81	50,800
	Mar. 26, 1938	9.00	23,500				
	Apr. 17, 1938	9.68	27,100	1951	Nov. 27, 1950	13.62	45,500
	Sept.23, 1938	10.51	31,200		Dec. 6, 1950	9.70	27,100
					Dec. 10, 1950	10.89	33,200
1939	Dec. 7, 1938	10.90	33,200		Feb. 9, 1951	9.12	24,100
	Dec. 11, 1938	9.30	25,100		Apr. 4, 1951	15.26	52,900
	Apr. 24, 1939	12.02	38,400		Apr. 27, 1951	9.42	25,700
	May 10, 1939	10.61	31,700				
				1952	Nov. 4, 1951	11.65	36,800
1940	Apr. 14, 1940	10.39	30,700		Nov. 9, 1951	9.80	27,700
	May 4, 1940	13.76	46,300		Dec. 7, 1951	9.15	24,200
	May 29, 1940	8.38	20,500		Apr. 7, 1952	10.39	30,600
	June 2, 1940	8.32	20,100		Apr. 21, 1952	11.22	34,800

Peak stages and discharges of Androscoggin River near Auburn, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 13, 1952	11.17	34,600	1955	Nov. 5, 1954	-	21,800
	June 2, 1952	11.80	37,500		Dec. 20, 1954	-	21,500
					Apr. 16, 1955	10.85	33,000
1953	Mar. 28, 1953	22.84	95,800				
				1956	Jan. 11, 1956	-	23,200
1954	Nov. 27, 1953	-	21,300		May 1, 1956	9.51	26,200
	Apr. 24, 1954	-	39,000				
	May 10, 1954	-	41,700	1957	Apr. 22, 1957	8.09	19,400
	Sept.12, 1954	14.53	49,600	1958	Apr. 24, 1958	13.89	46,700
				1959	Apr. 4, 1959	10.47	31,000
1955	Oct. 17, 1954	-	30,200	1960	Oct. 26, 1959	14.94	51,500

ROYAL RIVER BASIN

600. Royal River at Yarmouth, Maine

Location.--Lat 43°47'55", long 70°10'45", on right bank 150 ft upstream from lower highway bridge, in Yarmouth, Cumberland County.

Drainage area.--142 sq mi.

Gage.--Recording. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,400 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)
1950	Mar. 30, 1950	3.78	2,030	1954	Feb. 22, 1954	3.52	1,720
	Apr. 5, 1950	3.54	1,740		Mar. 4, 1954	3.63	1,850
	Apr. 21, 1950	3.50	1,700		Mar. 20, 1954	3.79	2,040
					Apr. 18, 1954	4.96	3,680
1951	Nov. 27, 1950	3.90	2,170		May 10, 1954	4.62	3,150
	Dec. 9, 1950	3.78	2,030		Sept.12, 1954	7.12	7,960
	Feb. 8, 1951	3.53	1,730				
	Mar. 15, 1951	4.52	3,000	1955	Nov. 4, 1954	3.43	1,620
	Mar. 21, 1951	4.20	2,550		Dec. 15, 1954	3.97	2,250
	Apr. 1, 1951	5.41	4,400		Dec. 19, 1954	3.62	1,830
	Apr. 4, 1951	5.25	4,140				
				1956	Jan. 13, 1956	4.28	2,660
1952	Nov. 4, 1951	4.95	3,660		Apr. 8, 1956	3.48	1,680
	Nov. 8, 1951	5.05	3,820		Apr. 17, 1956	4.37	2,790
	Jan. 23, 1952	3.70	1,930				
	Apr. 3, 1952	4.04	2,340	1957	Mar. 10, 1957	a3.17	-
	Apr. 6, 1952	5.16	4,000		Mar. 10, 1957	2.98	1,120
1953	Jan. 25, 1953	3.99	2,280	1958	Jan. 23, 1958	3.66	1,880
	Feb. 16, 1953	4.75	3,350		Jan. 27, 1958	4.61	3,140
	Mar. 14, 1953	4.86	3,520		Apr. 7, 1958	3.62	1,830
	Mar. 16, 1953	4.87	3,530				
	Mar. 25, 1953	5.10	3,900	1959	Nov. 29, 1958	3.52	1,720
	Mar. 27, 1953	5.57	4,650		Apr. 4, 1959	5.55	4,640
	Mar. 30, 1953	4.00	2,290				
	Apr. 14, 1953	3.91	2,180	1960	Nov. 25, 1959	3.45	1,640
	Apr. 17, 1953	4.35	2,780		Apr. 6, 1960	5.62	4,770
					May 10, 1960	3.96	2,240
1954	Nov. 26, 1953	3.74	1,980		May 14, 1960	4.95	3,660
	Dec. 7, 1953	3.43	1,620		May 25, 1960	3.49	1,690

a Backwater from ice.

640. Presumpscot River at outlet of Sebago Lake, Maine

Location.--Lat 43°49'05", long 70°27'00", at dam of hydroelectric plant at Eel Weir Falls, 1 mile downstream from lake outlet, Cumberland County.

Drainage area.--436 sq mi.

Gage.--Nonrecording. Altitude of gage is approximately mean sea level (from topographic map).

Stage-discharge relation.--Daily discharge computed by Allen meter records for each of three pairs of water wheels and from records of openings of two regulating gates at Eel Weir Hydroelectric Plant.

Remarks.--Flow completely regulated by lakes above station. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1887	Mar.18,19,1887	-	1,003	1925	Apr. 15, 1925	-	1,630
1888	(a)	-	1,667				
1889	Mar.21-27,1889	-	1,414	1926	Jan. 25, 1926	-	981
1890	(a)	-	1,336	1927	Jan. 3, 1927	-	788
				1928	May 24, 1928	-	2,370
1891	(a)	-	1,670	1929	May 7, 1929	-	2,020
1892	Oct.12-17,1891	-	966	1930	Sept. 9, 1930	-	826
1893	(a)	-	900				
1894	Dec. 11, 1893	-	867	1931	June 17, 1931	-	1,160
1895	(a)	-	783	1932	Nov. 11, 1931	-	835
				1933	Apr. 30, 1933	-	2,310
1896	(a)	-	1,167	1934	May 10, 1934	-	1,270
1897	Aug. 2-7,1897	-	1,433	1935	July 17, 1935	-	924
1898	(a)	-	2,000				
1899	Oct. 3-8,1898	-	1,000	1936	Apr. 3, 1936	-	3,790
1900	(a)	-	1,833	1937	May 21, 1937	-	2,790
				1938	May 17, 1938	-	1,570
1901	June 3-8,1901	-	933	1939	May 11, 1939	-	1,880
1902	Apr. 7, 1902	-	7,000	1940	June 1, 1940	-	1,840
1903	Oct. 27, 1902	-	817				
1904	Aug. 30, 1904	-	805	1941	Dec. 1, 1940	-	1,020
1905	Nov. 15, 1904	-	765	1942	July 22, 1942	-	809
				1943	Sept.12, 1943	-	899
1906	July 23, 1906	-	836	1944	Dec. 22, 1943	-	993
1907	Oct. 1-6,1906	-	766	1945	June 27, 1945	-	2,790
1908	Feb. 7, 1908	-	893				
1909	Oct.19,20,1908	-	817	1946	Jan. 20, 1946	-	1,200
1910	Nov. 3, 1909	-	723	1947	June 15, 1947	-	1,130
				1948	July 4, 1948	-	905
1911	Oct. 24, 1910	-	615	1949	June 22, 1949	-	827
1912	(a)	-	667	1950	July 22, 1950	-	682
1913	Feb. 6,7,1913	-	823				
1914	Nov. 3, 1913	-	842	1951	Apr.26,27,1951	-	3,160
1915	Oct. 13, 1914	-	802	1952	June 5, 1952	-	3,620
				1953	Apr.18-22,1953	-	3,420
1916	June 22,23,1916	-	2,440	1954	Sept.23, 1954	-	2,730
1917	June 24, 1917	-	2,730	1955	Oct. 16, 1954	-	1,590
1918	Feb. 7, 1918	-	919				
1919	Apr. 18, 1919	-	2,440	1956	May 8, 1956	-	930
1920	May 1, 1920	-	2,870	1957	Oct. 28, 1956	-	806
				1958	May 5, 1958	-	2,490
1921	Apr. 25, 1921	-	2,370	1959	Oct. 19, 1958	-	906
1922	June 24, 1922	-	3,210	1960	May 25, 1960	-	3,420
1923	Oct. 23, 1922	-	991				
1924	May 13, 1924	-	2,090				

a Many days.

645. Saco River near Conway, N.H.
(Published as "at Center Conway" prior to 1912)

Location.--Lat 43°59'25", long 71°05'30", at Odell Falls, 1¾ miles downstream from Swift River and Conway, Carroll County.

Drainage area.--Area, 386 sq mi. Area of lakes, reservoirs, and ponds, 1.28 sq mi. Length of main stream, 38.0 sq mi. Average slope above gage, 50.3 ft per mile.

Gage.--Nonrecording at site three-quarters of a mile downstream at different datum prior to July 1921; recording at present site and datum since February 1929. Datum of gage is 418.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement at 43,900 cfs.

Bankfull stage.--10 ft.

Historical data.--A reference mark for the flood of 1826 on a brass tablet on a 6-foot Elm tree at Fryeburg, Maine, indicates a stage of the Saco River at Fryeburg 9.6 ft higher in August 1826 than in March 1936.

Remarks.--Base for partial-duration series, 8,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Apr. 30, 1904	11.75	11,400	1941	Apr. 16, 1941	7.45	7,100
1905	July 31, 1905	13.20	15,300	1942	Apr. 26, 1942	8.01	8,760
1906	Apr. 16, 1906	10.30	8,200	1943	May 12, 1943	8.40	9,950
1907	May 1, 1907	11.80	11,500	1944	Nov. 9, 1943	11.60	21,000
					May 6, 1944	8.80	11,200
1908	Nov. 3, 1907	17.30	29,100		May 8, 1944	8.52	10,300
					June 25, 1944	9.40	13,200
1909	Apr. 14, 1909	13.75	16,800				
				1945	Jan. 2, 1945	8.60	10,600
1929	Apr. 29, 1929	8.66	10,700		Mar. 30, 1945	9.17	12,500
	May 3, 1929	12.97	26,700		Apr. 5, 1945	8.65	10,600
1930	Apr. 7, 1930	10.05	15,800	1946	Aug. 3, 1946	9.06	12,200
	June 10, 1930	8.27	9,460		Sept.30, 1946	8.32	9,650
1931	June 9, 1931	10.12	15,400	1947	Apr. 12, 1947	8.60	10,600
					May 5, 1947	8.01	8,760
1932	Apr. 12, 1932	9.12	11,900				
	Sept.17, 1932	10.35	16,400	1948	Apr. 2, 1948	9.31	12,800
1933	Oct. 7, 1932	8.79	10,900	1949	Dec. 31, 1948	8.82	11,300
	Nov. 20, 1932	8.80	10,900		Jan. 6, 1949	8.17	9,260
	Apr. 18, 1933	9.11	11,900				
	May 4, 1933	8.67	10,600	1950	Apr. 21, 1950	11.21	19,600
1934	Apr. 13, 1934	10.25	15,900	1951	Nov. 26, 1950	13.84	30,100
	Sept.18, 1934	8.41	9,590		Dec. 5, 1950	9.80	14,500
					Dec. 9, 1950	8.32	9,710
1935	Dec. 2, 1934	8.14	8,640		Apr. 4, 1951	9.60	13,800
					Apr. 11, 1951	8.54	10,400
1936	Mar. 12, 1936	14.33	22,300				
	Mar. 19, 1936	16.45	40,600	1952	Nov. 4, 1951	10.66	17,500
	Mar. 21, 1936	11.61	21,200		Dec. 6, 1951	8.02	8,820
	Apr. 6, 1936	8.65	10,300		Apr. 20, 1952	9.08	12,100
					Apr. 23, 1952	8.69	10,900
1937	Oct. 18, 1936	9.10	12,200		May 12, 1952	10.25	16,000
	Dec. 20, 1936	8.33	9,650		June 2, 1952	12.01	22,700
	May 7, 1937	11.00	18,800				
	May 15, 1937	9.21	12,500	1953	Dec. 12, 1952	9.57	13,700
	May 20, 1937	8.40	9,950		Mar. 25, 1953	9.40	13,200
					Mar. 27, 1953	17.20	43,900
1938	Oct. 21, 1937	9.99	15,200		Mar. 30, 1953	8.98	11,700
	Nov. 14, 1937	9.08	12,200				
	Nov. 29, 1937	9.05	11,800	1954	Nov. 26, 1953	9.25	12,600
	Jan. 25, 1938	9.65	13,800		Apr. 18, 1954	9.28	12,500
	Apr. 16, 1938	8.35	9,950		Apr. 23, 1954	9.02	11,600
	Sept.21, 1938	11.54	20,800		May 9, 1954	12.55	24,900
					Sept. 1, 1954	9.46	13,100
1939	Dec. 6, 1938	8.78	11,200		Sept.12, 1954	10.90	18,400
	May 7, 1939	8.20	9,350				
				1955	Oct. 16, 1954	9.96	14,800
1940	May 13, 1940	11.30	20,000		Aug. 14, 1955	8.45	9,790
	May 18, 1940	9.04	11,800				

Peak stages and discharges of Saco River near Conway, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Jan. 10, 1956	8.57	10,100	1959	Apr. 20, 1959	6.71	5,390
1957	Feb. 27, 1957	a8.96	-	1960	Oct. 24, 1959	16.39	40,600
	Apr. 21, 1957	7.20	6,430		Nov. 25, 1959	8.75	11,000
					Nov. 28, 1959	-	16,500
1958	Dec. 21, 1957	11.17	19,500		Apr. 5, 1960	8.59	10,600
	Dec. 27, 1957	9.14	12,000		Apr. 19, 1960	8.22	9,410
	Apr. 23, 1958	9.11	11,800		May 10, 1960	8.01	8,790
	Apr. 30, 1958	8.10	8,780		May 14, 1960	8.33	9,740
					Sept.13, 1960	9.37	13,100
1959	Apr. 3, 1959	a7.52	-				

a Backwater from ice.

650. Ossipee River at Effingham Falls, N.H.

Location.--Lat 43°47'40", long 71°03'40", on left bank 0.3 mile upstream from highway bridge at Effingham Falls, Carroll County, 0.35 mile downstream from outlet of Ossipee Lake, and 4 miles northwest of Effingham.

Drainage area.--Area, 330 sq mi. Area of lakes, reservoirs, and ponds, 12.7 sq mi. Length of main stream, 32.4 miles. Average slope above gage, 29.4 ft per mile.

Gage.--Recording. Altitude of gage is 390 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in relation occur.

Remarks.--Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 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)
1943	Apr. 29, 1943	6.92	2,640	1951	Apr. 5, 1951	8.82	4,800
	May 1, 1943	6.92	2,640	1952	Apr. 21, 1952	8.46	4,360
	May 5, 1943	6.92	2,640		Apr. 22, 1952	8.46	4,360
1944	Apr. 27, 1944	6.87	2,610	1953	Mar. 28, 1953	11.64	11,700
1945	Mar. 31, 1945	8.28	3,900	1954	May 12, 1954	9.58	6,700
	Apr. 1, 1945	8.28	3,900	1955	Apr. 17, 1955	6.78	2,690
1946	Mar. 30, 1946	6.56	2,390	1956	May 2, 1956	-	3,550
1947	Apr. 14, 1947	7.36	3,040	1957	Apr. 10, 1957	4.63	1,160
1948	May 21, 1948	7.25	2,940	1958	Apr. 24, 1958	8.81	5,350
1949	Jan. 8, 1949	7.17	2,880	1959	Apr. 10, 1959	7.47	3,460
1950	Apr. 22, 1950	8.25	3,870	1960	Apr. 7, 1960	8.98	5,640

655. Ossipee River at Cornish, Maine

Location.--Lat 43°48'25", long 70°47'55", on left bank just downstream from highway bridge in Cornish, York County, 1¼ miles upstream from mouth.

Drainage area.--Area, 453 sq mi. Area of lakes, reservoirs, and ponds, 15.9 sq mi. Length of main stream, 48.6 miles. Average slope above gage, 14.9 ft per mile.

Gage.--Nonrecording prior to Aug. 21, 1929; recording thereafter. At datum 1.00 ft higher prior to Oct. 1, 1942. Datum of present gage is 276.1 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs and extended above by logarithmic plotting.

Bankfull stage.--10 ft.

Remarks.--Flow partly regulated by powerplants at Kezar Falls and by Ossipee and Silver Lakes, Pine River, Bickford and Colcord Ponds (combined capacity, 1,600,000,000 cu ft). Only annual peaks are shown.

Peak stages and discharges of Ossipee River at Cornish, Maine

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	June 18, 1917	8.51	6,820	1939	Apr. 25, 1939	7.74	5,400
1918	Apr. 4, 1918	5.28	2,740	1940	May 5, 1940	8.43	5,700
1919	Mar. 29, 1919	7.25	4,710				
1920	Apr. 24, 1920	7.77	4,930	1941	Apr. 18, 1941	4.42	1,920
				1942	Apr. 10, 1942	5.71	2,900
1921	Dec. 15, 1920	7.40	4,560	1943	May 13, 1943	6.00	3,170
1922	Apr.13,14,1922	8.54	5,590	1944	Apr. 25, 1944	6.10	3,260
1923	Apr. 30, 1923	9.77	6,910	1945	Apr. 5, 1945	7.66	5,130
1924	Apr. 23, 1924	7.35	4,460				
1925	Mar. 29, 1925	9.12	6,140	1946	Mar. 20, 1946	5.59	2,900
				1947	Apr.14,15,1947	6.30	3,390
1926	Apr. 26, 1926	7.74	4,830	1948	May 19, 1948	6.31	3,390
1927	Mar. 21, 1927	5.47	2,740	1949	Jan. 6, 1949	6.34	3,430
1928	Apr. 9, 1928	7.13	4,250	1950	Apr. 22, 1950	7.33	4,510
1929	May 5, 1929	6.65	3,810				
1930	Apr. 9, 1930	6.05	3,370	1951	Apr. 3, 1951	8.65	6,620
				1952	Apr. 22, 1952	7.68	5,270
1931	June 12, 1931	6.47	3,840	1953	Mar. 29, 1953	13.92	13,800
1932	Apr. 12, 1932	7.55	4,900	1954	May 11, 1954	9.74	7,940
1933	Apr. 19, 1933	9.42	7,440	1955	Apr. 20, 1955	5.90	3,000
1934	Apr. 13, 1934	7.89	5,470				
1935	Apr. 16, 1935	5.63	2,960	1956	Jan. 14, 1956	7.35	4,620
				1957	Apr. 11, 1957	a4.21	1,370
1936	Mar. 21, 1936	16.32	17,200	1958	Apr. 23, 1958	8.54	6,260
1937	May 15, 1937	7.01	4,400	1959	Apr. 9, 1959	6.98	4,250
1938	Dec. 7, 1937	5.80	3,150	1960	Apr. 6, 1960	9.08	7,010

a Occurred Feb. 5, 1957; backwater from ice.

660. Saco River at Cornish, Maine

Location.--Lat 43°48'30", long 70°46'55", 300 ft upstream from highway bridge at Cornish, York County, and half a mile downstream from Ossipee River.

Drainage area.--Area, 1,298 sq mi. Area of lakes, reservoirs, and ponds, 34.3 sq mi. Length of main stream, 85.3 miles. Average slope above gage, 9.06 ft per mile.

Gage.--Nonrecording at site 300 ft downstream at datum 1.17 ft lower prior to Oct. 30, 1919; recording thereafter. Datum of gage is 263.48 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs and extended above on basis of contracted-opening measurement at 45,000 cfs. Shifts in the relation occur.

Bankfull stage.--16 ft.

Remarks.--Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds (combined capacity, 3,400,000,000 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)
1917	June 18, 1917	9.50	12,600	1935	May 2,3, 1935	8.48	9,570
1918	Apr. 7, 1918	5.70	7,800				
1919	Mar. 31, 1919	7.98	13,500	1936	Mar.21,22,1936	21.90	45,000
1920	Apr. 25, 1920	10.25	14,100	1937	May 10, 1937	11.10	16,900
				1938	Apr. 23, 1938	9.26	11,900
1921	Mar. 28, 1921	9.5	12,600	1939	Apr. 26, 1939	10.15	14,100
1922	Apr. 14, 1922	12.2	18,000	1940	May 6, 1940	13.00	21,500
1923	May 2, 1923	14.72	23,000				
1924	May 4, 1924	9.63	12,900	1941	Apr. 20, 1941	6.82	6,290
1925	Apr. 1, 1925	11.16	15,900	1942	Apr. 29, 1942	8.80	10,200
				1943	May 15, 1943	9.21	11,900
1926	May 6, 1926	9.49	12,600	1944	May 8, 1944	9.31	12,100
1927	Mar. 23, 1927	7.06	7,800	1945	Apr. 5, 1945	10.78	15,800
1928	Apr. 11, 1928	10.0	13,600				
1929	May 6, 1929	11.4	10,800	1946	Mar. 19, 1946	8.17	9,460
1930	Apr. 11, 1930	8.35	9,550	1947	May 9, 1947	9.34	11,400
				1948	May 22, 1948	8.20	9,870
1931	June 13, 1931	9.23	11,700	1949	Jan. 4, 1949	9.23	12,600
1932	Apr. 15, 1932	10.22	13,800	1950	Apr. 24, 1950	10.77	17,100
1933	Apr. 21, 1933	12.90	19,500				
1934	Apr. 17, 1934	10.35	14,200	1951	Apr. 6, 1951	11.19	17,100

Peak stages and discharges of Saco River at Cornish, Maine--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Apr. 23, 1952	11.09	16,900	1957	Apr. 24, 1957	b6.52	4,550
1953	Mar. 29, 1953	20.51	42,400	1958	Apr. 25, 1958	12.38	20,200
1954	May 12, 1954	13.36	22,800	1959	Apr. 12, 1959	9.01	11,700
1955	Apr.19-20,1955	8.65	10,900	1960	Apr. 8, 1960	11.08	16,800
1956	Jan. 16, 1956	a14.17	11,600				

a Occurred Jan. 13, 1956; backwater from ice.
b Occurred Jan. 25, 1957; backwater from ice.

665. Little Ossipee River near South Limington, Maine

Location.--Lat 43°41'15", long 70°40'05", just upstream from highway bridge, 2 miles east of South Limington, York County, and 4 miles upstream from mouth.

Drainage area.--Area, 161 sq mi. Area of lakes, reservoirs, and ponds, 4.32 sq mi. Length of main stream, 30.8 miles. Average slope above gage, 12.0 ft per mile.

Gage.--Recording. Altitude of gage is 260 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Bankfull stage.--8 ft.

Historical data.--Maximum discharge known, 8,530 cfs Mar. 19, 1936, at Ledgemere powerplant 4 miles upstream.

Remarks.--Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 cu ft). Base for partial-duration series, 1,000 cfs. Only annual peaks are shown prior to 1941 and after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 19, 1936	-	8,530	1951	Apr. 4, 1951	5.47	2,940
1941	Feb. 10, 1941	3.67	1,020	1952	Nov. 4, 1951	4.40	1,620
					Nov. 8, 1951	4.34	1,560
1942	Mar. 23, 1942	3.95	1,290		Apr. 7, 1952	5.87	3,740
	June 16, 1942	3.81	1,140		Apr. 15, 1952	4.70	2,070
					May 13, 1952	4.02	1,330
1943	Dec. 3, 1942	3.82	1,140		June 3, 1952	3.97	1,280
	Apr. 15, 1943	3.80	1,140				
	May 14, 1943	3.83	1,140	1953	Dec. 13, 1952	4.40	1,730
					Mar. 17, 1953	5.69	3,460
1944	Apr. 13, 1944	3.99	1,270		Mar. 28, 1953	6.51	4,820
	Sept.16, 1944	3.97	1,270		Apr. 15, 1953	4.19	1,500
					Apr. 18, 1953	4.51	1,850
1945	Mar. 29, 1945	4.10	1,350		May 3, 1953	3.72	1,040
	Apr. 6, 1945	4.00	1,270				
	May 14, 1945	4.20	1,440	1954	Mar. 5, 1954	3.87	1,180
	June 22, 1945	4.12	1,350		Apr. 19, 1954	5.56	3,270
	June 27, 1945	4.02	1,270		May 10, 1954	6.78	5,300
					May 23, 1954	4.19	1,500
1946	Mar. 16, 1946	3.94	1,220		Sept. 1, 1954	4.05	1,360
	Aug. 4, 1946	3.80	1,100		Sept.12, 1954	6.52	4,840
1947	Oct. 2, 1946	3.75	1,050	1955	Nov. 4, 1954	4.55	1,900
	May 5, 1947	3.77	1,060		Dec. 19, 1954	-	a1,030
1948	May 19, 1948	4.20	1,440	1956	Jan. 11, 1956	5.00	2,400
					Apr. 18, 1956	-	a2,240
1949	Jan. 1, 1949	4.83	2,100		May 1, 1956	-	a1,240
1950	Apr. 6, 1950	4.35	1,570	1957	Mar. 1, 1957	3.20	628
	Apr. 22, 1950	4.03	1,280	1958	Apr. 8, 1958	4.87	2,230
				1959	Apr. 5, 1959	5.09	2,530
1951	Mar. 21, 1951	4.45	1,670	1960	Apr. 6, 1960	5.83	3,600

a Daily mean discharge.

670. Saco River at West Buxton, Maine

Location.--Lat 43°40'00", long 70°36'05", at hydroelectric plant of Central Maine Power Co. at West Buxton, York County, and 6 miles downstream from Little Ossipee River.

Drainage area.--1,572 sq mi.

Gage.--Nonrecording. Altitude of gage is 68 ft (from topographic map).

Stage-discharge relation.--Daily discharge computed from records of flow over dam, through waste gates, and through wheels of powerplant; determined by hourly gage readings.

Historical data.--The flood of March 1936 (gage height, 168.2 ft), was the greatest flood ever known in the lower Saco River.

Remarks.--Flow partly regulated by powerplant above station and by Watchie, Balch, and Little Ossipee Ponds, and ponds and lakes above Cornish (combined capacity, 3,800,000,000 cu ft). Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	May 4, 1908	-	13,500	1926	May 6,7, 1926	-	13,300
1909	Apr. 18, 1909	-	20,800	1927	Mar. 23, 1927	-	9,490
1910	Apr. 27, 1910	-	13,100	1928	Apr. 12, 1928	-	13,600
				1929	May 6, 1929	-	10,600
1911	May 4, 1911	-	11,020	1930	Apr. 11, 1930	-	8,200
1912	Apr. 20, 1912	-	13,000				
1913	Mar. 29, 1913	-	15,800	1931	June 12,13,1931	-	10,400
1914	Apr. 23, 1914	-	16,000	1932	Apr. 14, 1932	-	11,000
1915	Feb. 27, 1915	-	9,290	1933	Apr. 21, 1933	-	25,600
				1934	Apr. 16, 1934	-	18,600
1916	Apr. 27, 1916	-	14,100	1935	May 3, 1935	-	9,660
1920	Apr. 24, 1920	-	17,400	1936	Mar. 22, 1936	-	a58,200
				1937	May 10, 1937	-	12,800
1921	Apr. 26, 1921	-	15,600	1938	Dec. 8, 1937	-	10,400
1922	Apr. 14, 1922	-	19,800	1939	Apr. 27, 1939	-	16,000
1923	May 2, 1923	-	27,800	1940	May 6, 1940	-	25,600
1924	May 5, 1924	-	14,400				
1925	Apr. 1, 1925	-	19,100				

a Momentary maximum.

675. Saco River at Salmon Falls, Maine

Location.--Lat 43°35'50", long 70°33'00", on left bank at Salmon Falls, York County, 500 ft upstream from highway bridge.

Drainage area.--1,595 sq mi.

Gage.--Recording. Datum of gage is 109.5 ft above mean sea level, datum of 1929.

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

Bankfull stage.--Not subject to overflow.

Remarks.--Flow partly regulated by powerplants above station and by Balch and Little Ossipee Ponds, and ponds and lakes above station at Cornish (combined capacity, 3,800,000,000 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)
1936	Mar. 22, 1936	6.75	a59,000	1943	May 16, 1943	13.08	13,700
				1944	May 7, 1944	13.32	14,000
1939	Apr. 26, 1939	15.48	18,100	1945	Apr. 6, 1945	15.78	18,700
1940	May 6, 1940	18.40	23,300				
				1946	Mar. 19, 1946	12.81	13,200
1941	Apr. 20, 1941	9.04	7,500	1947	May 9, 1947	13.23	13,900
1942	Apr. 29, 1942	11.30	10,900	1948	May 18, 1948	13.26	14,000

a Maximum known.

695. Mousam River near West Kennebunk, Maine

Location.--Lat 43°25'05", long 70°39'35", 100 ft upstream from highway bridge, 1½ miles downstream from Middle Branch, and 4 miles west of West Kennebunk, York County.

Drainage area.--105 sq mi.

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

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

Bankfull stage.--6 ft.

Remarks.--Flow regulated by reservoirs and powerplants 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	Apr. 13, 1940	5.05	2,090	1951	Apr. 3, 1951	4.25	1,580
				1952	Apr. 6, 1952	5.04	2,350
1941	Feb. 8, 1941	3.45	1,010	1953	Mar. 27, 1953	4.92	2,190
1942	Mar. 10, 1942	4.14	1,480	1954	Sept.12, 1954	5.69	2,830
1943	Dec. 2, 1942	4.03	1,400	1955	Dec. 15, 1954	3.75	1,330
1944	Apr. 25, 1944	3.20	855				
1945	Dec. 1, 1944	3.64	1,140	1956	Jan. 10, 1956	3.91	1,440
				1957	Dec. 1, 1956	3.19	1,000
1946	Nov. 23, 1945	3.27	952	1958	Jan. 27, 1958	3.76	1,480
1947	Mar. 16, 1947	3.00	815	1959	Apr. 3, 1959	3.79	1,500
1948	Mar. 23, 1948	3.68	1,220	1960	Apr. 6, 1960	4.33	1,930
1949	Jan. 1, 1949	3.64	1,180				
1950	Apr. 6, 1950	2.95	789				

PISCATAQUA RIVER BASIN

725. Salmon Falls River near South Lebanon, Maine
(Published as "near Lebanon" prior to 1935)

Location.--Lat 43°19'40", long 70°55'40", at Stair Falls, 1½ miles south of South Lebanon, York County, and 2½ miles upstream from Little River.

Drainage area.--147 sq mi.

Gage.--Recording. Datum of gage is 179.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of flow-over-dam measurement at 5,490 cfs.

Bankfull stage.--8 ft.

Remarks.--Flow partly regulated by powerplants and lakes and ponds 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)
1929	Mar. 23, 1929	4.50	1,130	1945	June 22, 1945	7.11	2,320
1930	Mar. 27, 1930	5.84	1,780				
				1946	Dec. 8, 1945	3.75	1,100
1931	June 10, 1931	4.90	1,400	1947	May 4, 1947	3.80	1,130
1932	Apr. 13, 1932	5.80	1,750	1948	May 19, 1948	4.24	1,320
1933	Apr. 19, 1933	10.04	4,090	1949	Jan. 7, 1949	4.64	1,400
1934	Apr. 13, 1934	5.45	1,590	1950	Apr. 6, 1950	4.47	1,350
1935	Jan. 11, 1935	-	a1,200				
				1951	Apr. 4, 1951	7.51	2,340
1936	Mar. 19, 1936	12.31	5,490	1952	Apr. 7, 1952	7.97	2,440
1937	Feb. 23, 1937	9.81	3,930	1953	Mar. 27, 1953	10.00	3,690
1938	Nov. 29, 1937	7.50	2,620	1954	May 9, 1954	11.45	4,940
1939	Apr. 20, 1939	5.63	1,760	1955	Dec. 15, 1954	5.37	1,560
1940	Apr. 13, 1940	8.18	3,100				
				1956	Jan. 10, 1956	7.00	2,270
1941	Feb. 5, 1941	3.66	1,080	1957	Jan. 23, 1957	3.56	971
1942	Mar. 9, 1942	5.19	1,580	1958	Apr. 7, 1958	5.97	1,840
1943	Dec. 2, 1942	4.60	1,390	1959	Apr. 6, 1959	5.86	1,790
1944	Apr. 14, 1944	3.63	1,060	1960	Apr. 6, 1960	9.90	3,000

a Estimated; backwater from ice.

730. Oyster River near Durham, N.H.

Location.--Lat 43°08'55", long 70°58'00", on left bank 200 ft upstream from bridge on U.S. Highway 4, 2½ miles west of Durham, Strafford County, and 7 miles upstream from mouth.

Drainage area.--Area, 12.1 sq mi. Area of lakes, reservoirs, and ponds, 0.16 sq mi. Length of main stream, 7.9 miles. Average slope above gage, 21.5 ft per mile.

Gage.--Recording. Altitude of gage is 70 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 220 cfs and by flow-over-dam measurement at gage height 7.45 ft. Large change in relation since March 1938.

Remarks.--Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 10, 1935	4.60	345	1951	Dec. 9, 1950	2.225	176
	Mar. 17, 1935	3.11	225		Feb. 8, 1951	2.71	261
					Feb. 18, 1951	a2.29	187
1936	Jan. 16, 1936	5.87	443		Mar. 14, 1951	2.525	226
	Mar. 12, 1936	a7.06	-		Mar. 20, 1951	2.29	187
	Mar. 19, 1936	7.45	548		Mar. 31, 1951	2.265	183
	Mar. 22, 1936	4.81	361		Apr. 3, 1951	2.35	197
1937	Dec. 20, 1936	3.42	249	1952	Nov. 3, 1951	2.66	251
	Feb. 22, 1937	4.93	369		Nov. 7, 1951	3.19	365
	Mar. 16, 1937	3.75	281		Apr. 2, 1952	2.245	179
					Apr. 6, 1952	3.29	389
1938	Nov. 29, 1937	3.38	247		May 12, 1952	2.695	259
	Dec. 7, 1937	5.60	422				
	Jan. 25, 1938	3.43	251	1953	Feb. 15, 1953	2.525	226
	July 29, 1938	2.78	273		Mar. 13, 1953	3.645	450
					Mar. 16, 1953	3.84	498
1939	Apr. 7, 1939	2.21	162		Mar. 27, 1953	3.305	376
					Mar. 30, 1953	2.26	183
1940	Jan. 15, 1940	2.27	172		Apr. 14, 1953	2.565	233
	Mar. 31, 1940	a3.19	-		Apr. 17, 1953	2.185	170
	Apr. 9, 1940	2.33	182				
	Apr. 13, 1940	3.06	334	1954	Mar. 20, 1954	2.29	187
	June 1, 1940	2.48	211		Apr. 18, 1954	2.60	240
					May 9, 1954	4.86	778
1941	Feb. 8, 1941	a3.18	250		May 16, 1954	2.60	240
					Sept.11, 1954	5.47	862
1942	Mar. 9, 1942	a3.50	380				
	Mar. 22, 1942	2.75	266	1955	Dec. 15, 1954	3.29	374
					Feb. 12, 1955	2.64	247
1943	Dec. 2, 1942	3.17	355		Mar. 1, 1955	2.385	203
1944	Mar. 24, 1944	2.23	165	1956	Jan. 9, 1956	3.24	351
					Apr. 17, 1956	2.86	288
1945	Nov. 30, 1944	2.43	202				
	May 16, 1945	2.51	217	1957	Feb. 27, 1957	1.63	91
1946	Mar. 9, 1946	a2.56	215	1958	Jan. 27, 1958	a3.86	400
					Apr. 7, 1958	2.57	235
1947	Mar. 15, 1947	2.24	168				
				1959	Apr. 3, 1959	2.71	260
1948	Mar. 22, 1948	a3.05	300				
				1960	Apr. 2, 1960	2.36	199
1949	Apr. 19, 1949	2.02	144		Apr. 5, 1960	3.525	423
1950	Mar. 23, 1950	3.27	384				

a Backwater from ice.

735. Lamprey River near Newmarket, N.H.

Location.--Lat 43°06'05", long 70°57'20", on right bank 200 ft upstream from Packers Falls, 2 miles northwest of Newmarket, Rockingham County, and 4.6 miles upstream from mouth.

Drainage area.--Area, 183 sq mi. Area of lakes, reservoirs, and ponds, 3.04 sq mi. Length of main stream, 38.7 miles. Average slope above gage, 12.1 ft per mile.

Gage.--Recording. Altitude of gage is 40 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended above by flow-over-dam measurement at gage height 14.69 ft. Minor changes in relation occur.

Remarks.--Flow regulated by Pawtuckaway and Mendums Ponds (combined capacity, about 600,000,000 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)
1935	Jan. 11, 1935	6.75	1,820	1948	Mar. 23, 1948	8.92	2,800
				1949	Jan. 8, 1949	4.46	884
1936	Mar. 20, 1936	14.88	5,490		Apr. 19, 1949	4.46	884
1937	Feb. 24, 1937	6.98	1,940	1950	Mar. 30, 1950	6.56	1,720
1938	July 31, 1938	10.55	3,530				
1939	Apr. 20, 1939	6.91	1,890	1951	Apr. 5, 1951	6.71	1,700
1940	Apr. 14, 1940	8.26	2,520	1952	Apr. 7, 1952	8.87	2,780
				1953	Mar. 16, 1953	9.61	3,120
1941	Feb. 11, 1941	a5.11	b1,080	1954	May 11, 1954	11.43	4,070
1942	Mar. 11, 1942	c7.05	b1,700	1955	Dec. 16, 1954	7.05	1,880
1943	Dec. 4, 1942	6.34	1,620				
1944	Mar. 29, 1944	5.50	1,300	1956	Apr. 18, 1956	9.18	2,960
1945	Mar. 23, 1945	7.03	1,950	1957	Mar. 1, 1957	4.07	676
				1958	Jan. 27, 1958	8.87	2,790
1946	Mar. 11, 1946	6.19	1,570	1959	Apr. 5, 1959	9.83	3,300
1947	Mar. 17, 1947	5.41	1,280	1960	Apr. 6, 1960	11.46	4,470

a Backwater from ice.
b Estimated.
c Occurred Mar. 12, 1942; backwater from ice.

MERRIMACK RIVER BASIN

745. East Branch Pemigewasset River near Lincoln, N.H.

Location.--Lat 44°03'40", long 71°37'00", on right bank 1 1/8 miles downstream from Hancock Branch and 2¾ miles northeast of Lincoln, Grafton County.

Drainage area.--Area, 104 sq mi. Length of main stream, 14.7 miles. Average slope above gage, 109 ft per mile. Average tributary slope, 498 ft per mile. Average land slope, 1,598 ft per mile. Stream density, 1.45 miles per square mile. Mean altitude of basin, 2,804 ft.

Gage.--Recording. Altitude of gage is 1,020 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter and indirect measurements. Large changes in relation occur.

Remarks.--Base for partial-duration series, 3,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 3, 1929	7.47	9,800	1935	Dec. 1, 1934	5.30	3,680
1930	Apr. 7, 1930	5.63	4,080	1936	Mar. 19, 1936	9.80	17,000
1931	July 22, 1931	5.35	3,540		May 1936	6.12	4,160
				1937	Oct. 17, 1936	6.90	6,640
1932	Sept.17, 1932	6.31	5,580		May 7, 1937	7.14	7,470
					May 15, 1937	6.42	4,980
1933	Oct. 7, 1932	6.11	5,840				
	Nov. 19, 1933	5.69	4,840	1938	Oct. 20, 1937	7.75	9,510
	May 3, 1933	5.68	4,840		Nov. 14, 1937	6.25	4,490
					Apr. 15, 1938	6.10	4,010
1934	Apr. 24, 1934	5.91	5,320		Sept.21, 1938	10.30	16,300

Peak stages and discharges of East Branch Pemigewasset River near Lincoln, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 6, 1938	7.53	6,300	1947	May 6, 1947	7.12	4,730
	Apr. 19, 1939	a8.05	7,350		June 3, 1947	7.01	4,450
	May 7, 1939	6.83	4,370		July 23, 1947	6.94	4,260
1940	May 3, 1940	8.36	9,100	1948	April 1948	7.80	6,950
	May 17, 1940	7.53	6,300	1949	Nov. 10, 1948	6.85	4,200
1941	Nov. 12, 1940	6.82	4,240		Dec. 30, 1948	7.11	4,870
					Jan. 6, 1949	7.33	5,460
1942	Mar. 9, 1942	a10.51	-		May 3, 1949	7.08	4,790
	June 15, 1942	6.53	3,620		May 7, 1949	6.97	4,500
				1950	Apr. 20, 1950	7.89	7,270
1943	May 12, 1943	6.77	4,120	1951	Nov. 26, 1950	9.89	14,700
	May 17, 1943	7.13	5,160		Dec. 4, 1950	8.71	10,100
1944	Nov. 9, 1943	8.75	10,300				
	May 5, 1944	7.24	5,150	1952	Nov. 3, 1951	7.94	7,440
	May 8, 1944	7.35	5,450		May 12, 1952	6.82	4,120
					June 1, 1952	8.85	10,600
1945	Mar. 29, 1945	6.95	4,380				
				1953	Mar. 24, 1953	6.68	4,290
1946	Oct. 2, 1945	7.92	7,150		Mar. 27, 1953	-	b7,000
	Aug. 3, 1946	6.98	4,460				
	Sept.30, 1946	6.85	4,370	1960	Oct. 25, 1959	-	24,200

a Backwater from ice. b Daily mean discharge.

750. Pemigewasset River at Woodstock, N.H.

Location.--Lat 43°58'35", long 71°40'50", on right bank 0.2 mile east of Woodstock, Grafton County, and 0.7 mile upstream from Eastman Brook.

Drainage area.--Area, 193 sq mi. Length of main stream, 23.5 miles. Average slope above gage, 80.7 ft per mile. Average tributary slope, 426 ft per mile. Average land slope, 1,478 ft per mile. Stream density, 1.50 miles per square mile. Mean altitude of basin, 2,492 ft.

Gage.--Recording. Altitude of gage is 615 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,300 cfs and extended above by logarithmic plotting. Small changes in relation occur.

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)
1940	May 3, 1940	10.25	15,500	1951	Dec. 5, 1950	10.63	15,700
	May 17, 1940	9.01	10,300				
				1952	Nov. 3, 1951	9.83	12,600
1941	Nov. 12, 1940	8.50	8,470		June 1, 1952	11.19	18,400
1942	June 15, 1942	8.98	9,610	1953	Dec. 11, 1952	8.82	9,120
					Mar. 24, 1953	8.73	8,840
1943	May 17, 1943	7.99	6,800		Mar. 27, 1953	11.65	20,800
1944	Nov. 9, 1943	11.03	17,600	1954	Nov. 25, 1953	8.15	7,190
	May 5, 1944	8.27	7,510		Apr. 22, 1954	8.35	7,730
	May 8, 1944	8.51	8,190		May 9, 1954	10.09	13,600
					Aug. 31, 1954	10.67	15,900
1945	Mar. 29, 1945	8.34	7,700		Sept.11, 1954	11.40	19,500
1946	Oct. 2, 1945	9.86	12,700	1955	Apr. 15, 1955	7.67	6,000
	Sept.30, 1946	8.17	7,240				
				1956	July 14, 1956	8.22	7,370
1947	May 6, 1947	8.55	8,300				
	June 3, 1947	8.82	9,120	1957	Apr. 21, 1957	7.33	5,240
	July 23, 1947	9.03	9,800				
				1958	Dec. 21, 1957	12.43	24,600
1948	Apr. 1, 1948	10.05	13,400		Apr. 23, 1958	8.29	7,380
1949	Dec. 30, 1948	8.65	8,600	1959	Apr. 3, 1959	a8.27	6,700
	Jan. 6, 1949	8.60	8,450				
	May 3, 1949	8.18	7,270	1960	Oct. 24, 1959	16.13	47,000
					Nov. 25, 1959	8.72	8,740
1950	Apr. 20, 1950	10.23	14,100		Nov. 28, 1959	10.71	16,000
					Mar. 31, 1960	8.63	8,440
1951	Nov. 26, 1950	12.05	22,800		May 16, 1960	8.28	7,350

a Backwater from ice.

755. Baker River at Wentworth, N.H.

Location.--Lat 43°52'05", long 71°54'35", on left bank 50 ft downstream from highway bridge in Wentworth, Grafton County, and 0.2 mile upstream from Pond Brook.

Drainage area.--Area, 58.8 sq mi. Area of lakes, reservoirs, and ponds, 0.04 sq mi. Length of main stream, 14.9 miles. Average slope above gage, 187 ft per mile. Average tributary slope, 482 ft per mile. Average land slope, 1,004 ft per mile. Stream density, 1.84 miles per square mile. Mean altitude of basin, 1,744 ft.

Gage.--Recording. Altitude of gage is 580 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above. Large changes in relation occur.

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)
1941	Nov. 12, 1940	8.33	1,820	1948	Mar. 28, 1948	5.91	1,900
					Apr. 1, 1948	6.36	3,660
1942	Apr. 8, 1942	8.23	1,720				
	June 14, 1942	14.82	12,000	1949	Dec. 31, 1948	5.98	2,110
					Mar. 28, 1949	5.94	1,990
1943	Nov. 1, 1942	6.28	1,840				
	Aug. 5, 1943	6.67	2,590	1950	Apr. 5, 1950	5.96	1,610
					Apr. 20, 1950	7.56	5,320
1944	Nov. 9, 1943	6.96	3,240				
				1951	Nov. 26, 1950	7.09	4,140
1945	Mar. 29, 1945	6.12	1,570		Dec. 5, 1950	7.19	3,070
					Apr. 3, 1951	7.18	3,060
1946	Oct. 2, 1945	6.48	2,200				
	Dec. 7, 1945	6.42	2,090	1952	Nov. 3, 1951	6.57	2,100
					Apr. 6, 1952	6.48	1,970
1947	June 3, 1947	6.25	3,120		Apr. 14, 1952	6.35	1,800
1948	Mar. 22, 1948	5.87	1,800				

760. Baker River near Rumney, N.H.

Location.--Lat 43°47'45", long 71°50'45", on right bank 0.3 mile upstream from Halls Brook and 1¾ miles southwest of Rumney, Grafton County.

Drainage area.--Area, 143 sq mi. Length of main stream, 22.4 miles. Average slope above gage, 107 ft per mile. Average tributary slope, 326 ft per mile. Average land slope, 878 ft per mile. Stream density, 1.62 miles per square mile. Mean altitude of basin, 1,584 ft.

Gage.--Recording. Altitude of gage is 495 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs and extended above on basis of slope-area measurements at gage heights 13.03, 14.49, and 15.50 ft. Small changes in relation occur.

Historical data.--Flood of Nov. 3, 1927, reached a stage of 17.4 ft, from flood-marks (discharge, 25,900 cfs, from rating curve extended above 3,800 cfs as described above).

Remarks.--Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Nov. 3, 1927	17.4	a25,900	1934	Apr. 12, 1934	12.28	14,200
1929	May 3, 1929	7.52	4,650	1935	Jan. 10, 1935	11.13	3,600
1930	Apr. 7, 1930	9.32	8,000	1936	Mar. 12, 1936	12.95	15,800
					Mar18,19, 1936	14.49	19,100
1931	July 22, 1931	7.31	4,320				
				1937	May 15, 1937	6.96	3,780
1932	Apr. 12, 1932	9.84	9,000				
				1938	Nov. 14, 1937	7.27	4,320
1933	Oct. 7, 1932	7.34	4,320		Sept.21, 1938	13.03	15,900
	Nov. 20, 1932	7.77	5,170				
	Apr. 18, 1933	7.74	4,990	1939	Dec. 6, 1938	7.92	5,350

a Annual maximum.

Peak stages and discharges of Baker River near Rumney, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 3, 1940	7.56	4,820	1952	Apr. 14, 1952	7.18	4,150
					June 2, 1952	10.74	10,800
1941	July 13, 1941	6.20	2,770				
				1953	Dec. 12, 1952	10.16	9,540
1942	June 15, 1942	15.50	21,400		Mar. 25, 1953	8.70	6,630
					Mar. 27, 1953	12.81	15,400
1943	Aug. 5, 1943	7.07	3,660				
				1954	Apr. 18, 1954	7.85	5,160
1944	Nov. 9, 1943	8.38	5,880		May 9, 1954	7.39	4,460
					Sept.11, 1954	10.22	9,660
1945	Mar. 29, 1945	6.60	3,100				
				1955	Apr. 15, 1955	6.54	3,310
1946	Dec. 7, 1945	7.73	4,960				
				1956	Apr. 30, 1956	7.00	3,900
1947	Apr. 12, 1947	7.66	4,630		May 27, 1956	7.90	5,240
	June 3, 1947	7.39	4,220		July 14, 1956	7.01	3,910
1948	April 1948	7.60	4,530	1957	Nov. 22, 1956	5.20	1,820
1949	Dec. 31, 1948	7.27	4,300	1958	Dec. 21, 1957	10.03	9,260
					Apr. 22, 1958	7.57	4,720
1950	Apr. 20, 1950	9.61	8,400				
				1959	Apr. 3, 1959	6.33	3,060
1951	Nov. 26, 1950	9.39	7,960				
	Dec. 5, 1950	7.31	4,340	1960	Oct. 24, 1959	14.00	18,000
	Apr. 3, 1951	9.00	7,200		Nov. 28, 1959	9.87	8,930
					Mar. 31, 1960	6.90	3,770
1952	Nov. 3, 1951	7.05	3,970		Apr. 5, 1960	7.24	4,240
	Apr. 6, 1952	7.36	4,410		Apr. 15, 1960	6.96	3,850

765. Pemigewasset River at Plymouth, N.H.

Location.--Lat 43°45'35", long 71°41'10", on right bank 150 ft downstream from bridge at Plymouth, Grafton County, and a third of a mile downstream from Baker River.

Drainage area.--Area, 622 sq mi. Length of main stream, 40.5 miles. Average slope above gage, 42 ft per mile. Average tributary slope, 223 ft per mile. Average land slope, 1,161 ft per mile. Stream density, 1.62 miles per square mile. Mean altitude of basin, 1,853 ft.

Gage.--Nonrecording prior to Oct. 1, 1926; recording thereafter. At datum 1.11 ft lower prior to July 1, 1907. Datum of gage is 457.07 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs and extended above on basis of flow-over-dam measurement at gage heights 23.0, 27.4, and 29.0 ft. Small changes in relation occur.

Remarks.--Base for partial-duration series, 12,600 cfs. Only annual peaks are shown prior to 1928.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 17, 1904	10.70	15,000	1922	Apr. 12, 1922	14.90	24,600
1905	Mar. 29, 1905	12.30	18,500	1923	Apr. 29, 1923	18.60	34,600
				1924	Sept.10, 1924	13.95	22,300
1906	Apr. 16, 1906	12.90	19,800	1925	Mar. 29, 1925	15.95	27,300
1907	May 1, 1907	11.10	15,900				
1908	Dec. 10, 1907	14.00	22,400	1926	May 4, 1926	12.00	17,800
1909	Apr. 14, 1909	15.20	25,400	1927	Nov. 17, 1926	9.00	11,500
1910	Mar. 26, 1910	9.70	12,900				
				1928	Nov. 4, 1927	27.4	60,000
1911	Apr. 15, 1911	11.80	17,400		Apr. 8, 1928	12.30	18,500
1912	Apr. 23, 1912	10.80	15,200				
1913	Mar. 28, 1913	16.00	27,400	1929	Apr. 9, 1929	9.99	13,500
1914	Apr. 20, 1914	17.50	31,500		Apr. 29, 1929	9.83	13,100
1915	Feb. 25, 1915	-	a20,000		May 3, 1929	14.21	22,900
1916	May 18, 1916	11.60	17,000	1930	Apr. 8, 1930	13.14	20,400
1917	June 18, 1917	12.60	19,200				
1918	Oct. 31, 1917	13.10	20,300	1931	June 9, 1931	10.45	14,500
1919	Mar. 29, 1919	-	a22,000				
1920	Apr. 14, 1920	14.10	22,600	1932	Apr. 13, 1932	12.10	18,200
1921	Oct. 1, 1920	12.85	19,700	1933	Oct. 7, 1932	11.42	16,700

a Backwater from ice.

Peak stages and discharges of Pemigewasset River at Plymouth, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Nov. 20, 1932	11.20	16,200	1949	Dec. 31, 1948	12.95	22,600
	Apr. 18, 1933	12.77	19,900		Jan. 6, 1949	10.15	15,100
					Mar. 28, 1949	9.17	12,800
1934	Apr. 13, 1934	13.88	22,600				
	Apr. 18, 1934	9.65	12,800	1950	Apr. 21, 1950	15.56	28,000
	Apr. 20, 1934	10.75	15,400				
	Apr. 25, 1934	10.60	14,900	1951	Nov. 26, 1950	15.05	28,300
					Dec. 5, 1950	11.87	19,600
1935	Jan. 10, 1935	a15.20	17,000		Apr. 4, 1951	12.57	20,500
1936	Mar. 19, 1936	29.0	65,400	1952	Nov. 3, 1951	12.31	20,200
	Apr. 7, 1936	10.19	14,000		Apr. 6, 1952	9.92	14,400
					Apr. 20, 1952	10.52	15,800
1937	Oct. 18, 1936	9.82	13,100		June 2, 1952	15.06	27,400
	May 15, 1937	11.11	15,900				
				1953	Dec. 12, 1952	-	24,600
1938	Oct. 21, 1937	12.25	18,400		Mar. 25, 1953	-	21,400
	Nov. 14, 1937	10.10	13,800		Mar. 27, 1953	21.20	44,700
	Mar. 24, 1938	11.10	12,700				
	Apr. 16, 1938	10.20	14,000	1954	Apr. 18, 1954	-	18,500
	Sept.21, 1938	23.62	50,900		Apr. 21, 1954	-	14,300
					May 9, 1954	-	22,800
1939	Dec. 6, 1938	13.75	21,900		Aug. 31, 1954	-	15,100
	Apr. 20, 1939	11.23	16,100		Sept.12, 1954	15.43	29,100
1940	May 3, 1940	15.15	25,400	1955	Apr. 16, 1955	9.98	14,500
	May 17, 1940	9.53	12,600		Apr. 19, 1955	-	13,000
1941	Nov. 12, 1940	7.84	9,580	1956	Jan. 10, 1956	11.54	-
					Jan. 10, 1956	-	13,400
1942	June 15, 1942	13.72	25,500		Apr. 30, 1956	-	14,800
					May 28, 1956	-	15,900
1943	May 13, 1943	9.13	12,600		July 14, 1956	-	13,700
1944	Nov. 9, 1943	15.68	29,300	1957	Jan. 23, 1957	a11.29	-
					Apr. 21, 1957	-	7,450
1945	Mar. 30, 1945	10.71	16,100				
	Apr. 5, 1945	9.38	13,300	1958	Dec. 21, 1957	17.15	33,600
					Dec. 27, 1957	-	13,400
1946	Oct. 2, 1945	10.93	17,000		Apr. 23, 1958	-	16,000
	Dec.7,8, 1945	10.89	16,300				
				1959	Apr. 3, 1959	12.81	21,800
1947	Oct. 1, 1946	9.20	12,900				
	Apr. 12, 1947	11.39	17,700	1960	Oct. 25, 1959	22.68	52,700
	June 3, 1947	10.71	16,900		Nov. 25, 1959	9.81	14,400
	July 23, 1947	9.21	12,800		Nov. 28, 1959	14.05	24,200
					Mar. 31, 1960	11.70	18,400
1948	Mar. 28, 1948	9.52	13,600		Apr. 5, 1960	12.17	19,100
	Apr. 2, 1948	13.55	23,400		Apr. 19, 1960	9.30	13,200

a Backwater from ice.

770. Squam River at Ashland, N.H.

Location.--Lat 43°42'15", long 71°37'50", on right bank 200 ft upstream from bridge on U.S. Highway 3 and a third of a mile north of Ashland, Grafton County.

Drainage area.--57.6 sq mi.

Gage.--Recording. Altitude of gage is 545 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in relation occur.

Remarks.--Flow completely regulated by Squam and Little Squam Lakes. 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	June 7-14,1940	10.88	170	1950	Jan. 7, 1950	10.63	114
				1951	Apr. 11, 1951	11.93	498
1941	Nov. 17, 1940	11.22	269	1952	June 3, 1952	11.64	414
1942	Oct. 4, 1941	10.85	176	1953	May 18, 1953	11.88	489
1943	Dec. 28, 1942	10.73	141	1954	May 10, 1954	11.78	450
1944	May 27, 1944	10.91	180	1955	Jan.14-17, 1955	10.84	159
1945	June 26, 1945	10.90	182				
				1956	Apr.17-18,1956	10.72	131
1946	June 8-10,1946	11.40	322	1957	June 1, 1957	10.87	166
1947	May 5-7, 1947	11.32	304	1958	Mar.24-30,1959	11.00	199
1948	Sept. 6, 1948	11.21	267	1959	Mar. 18, 1959	a10.78	86
1949	May 7, 1949	10.96	190	1960	Apr. 15, 1960	11.82	466

a Occurred Mar. 23, 1959; backwater from ice.

780. Smith River near Bristol, N.H.

Location.--Lat 43°34'00", long 71°44'50", on right bank in Hill, Merrimack County, 1.5 miles upstream from mouth, and 1¾ miles southwest of Bristol, Grafton County.

Drainage area.--Area, 85.8 sq mi. Length of main stream, 21.5 miles. Average slope above gage, 22.6 ft per mile. Average tributary slope, 242 ft per mile. Average land slope, 764 ft per mile. Stream density, 2.05 miles per square mile. Mean altitude of basin, 1,258 ft.

Gage.--Nonrecording at site 1½ miles downstream at different datum prior to Nov. 25, 1933; recording thereafter. Datum of gage is 449.80 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs and extended above on basis of contracted-opening measurement at 8,100 cfs. Large change in relation since March 1936.

Remarks.--Base for partial-duration series, 1,150 cfs. Only annual peaks are shown prior to 1934.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	Mar. 28, 1919	4.9	2,320	1944	Nov. 9, 1943	6.51	1,790
1920	Apr. 14, 1920	4.4	1,820		June 25, 1944	6.05	1,460
1921	Dec. 14, 1920	3.6	1,090	1945	Mar. 22, 1945	5.87	1,330
1922	Apr. 12, 1922	4.7	2,120		Mar. 29, 1945	5.85	1,320
1923	Apr. 6, 1923	4.8	2,220				
1924	Apr. 19, 1924	4.0	1,440	1946	Dec. 7, 1945	6.49	1,770
1925	Mar. 29, 1925	5.1	2,560		Mar. 16, 1946	-	1,200
1926	Apr. 25, 1926	4.6	2,020	1947	Apr. 13, 1947	6.76	1,640
1927	Mar. 15, 1927	4.5	1,920				
1928	Nov. 4, 1927	7.02	5,800	1948	Mar. 22, 1948	7.30	1,960
1929	Mar. 17, 1929	-	1,750				
1930	Mar. 9, 1930	4.0	1,440	1949	Jan. 1, 1949	5.70	1,080
1931	May 23, 1931	3.8	1,260	1950	Apr. 20, 1950	6.62	1,570
1932	Apr. 12, 1932	4.6	2,020				
1933	Apr. 18, 1933	4.8	2,220	1951	Mar. 31, 1951	7.10	1,830
					Apr. 3, 1951	8.91	2,840
1934	Apr. 3, 1934	5.88	1,380		Apr. 11, 1951	5.92	1,200
	Apr. 12, 1934	10.37	3,500				
				1952	Apr. 6, 1952	7.15	1,860
1935	Jan. 10, 1935	5.70	1,240		June 1, 1952	7.64	2,130
1936	Mar. 13, 1936	9.50	3,020	1953	Dec. 12, 1952	6.81	1,670
	May 19, 1936	16.09	8,100		Mar. 27, 1953	10.44	3,750
1937	Apr. 16, 1937	6.08	1,500	1954	Apr. 18, 1954	6.19	1,530
	May 15, 1937	6.52	1,720		May 11, 1954	6.55	1,750
					Sept.11, 1954	5.90	1,360
1938	Nov. 14, 1937	6.48	1,800				
	Nov. 29, 1937	5.56	1,150	1955	Apr. 11, 1955	5.30	1,020
	Mar. 24, 1938	5.77	1,280				
	Sept.22, 1938	10.77	5,070	1956	Apr. 30, 1956	6.41	1,670
1939	Apr. 20, 1939	7.35	2,500	1957	Jan. 24, 1957	4.50	610
1940	Apr. 19, 1940	5.67	1,180	1958	Dec. 21, 1957	5.87	1,280
	May 3, 1940	6.89	2,100		Apr. 19, 1958	6.67	1,680
1941	Feb. 8, 1941	a5.19	790	1959	Apr. 4, 1959	6.51	1,600
1942	Apr. 8, 1942	6.10	1,500	1960	Oct. 24, 1959	8.16	2,630
	June 15, 1942	7.16	2,340		Apr. 5, 1960	7.59	2,280
					Apr. 15, 1960	6.37	1,560
1943	Apr. 28, 1943	5.59	1,150				

a Backwater from ice.

805. Lake Winnipesaukee Outlet at Lakeport, N.H.

Location.--Lat 43°32'55", long 71°27'55", 100 ft upstream from highway bridge across Paugus Bay at Lakeport, Belknap County.

Drainage area.--363 sq mi.

Gage.--Nonrecording gage and continuous recording meter in measuring flume prior to Oct. 1, 1936; powerplant records obtained by the International Paper Co. Oct. 1, 1936, to May 23, 1944; recording gage and Keeler deflection meter thereafter. Datum of gage is 500.55 ft above mean sea level, datum of 1929.

Remarks.--Flow completely regulated. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Apr. 23, May 7, 1934	-	1,100	1947	June 16,18,1947	-	1,430
				1948	May 27,28,1948	-	1,350
1935	Feb. 27, Mar. 4, 1935	-	1,420	1949	Feb. 10, 1949	-	980
				1950	Apr. 25, 1950	-	1,140
1936	Mar. 31, 1936	-	2,890	1951	Apr. 10,12,13, 1951	-	1,780
1937	May 20, 1937	-	2,240				
1938	Feb. 28, 1938	-	1,190	1952	June 12, 1952	-	1,770
1939	May 5, 1939	-	1,230	1953	May 1, 1953	-	2,500
1940	May 5, 1940	-	1,850	1954	June 2,8,1954	-	2,520
				1955	Jan. 10, 1955	-	1,860
1941	Feb. 10, 1941	-	931				
1942	June 21, 1942	-	591	1956	June 5, 1956	-	1,690
1943	May 21,22,1943	-	1,320	1957	Feb. 1, 1957	-	1,550
1944	June 26, 1944	-	1,430	1958	Feb. 4, 1958	-	1,990
1945	May 27, 1945	-	2,010	1959	Mar. 23, 1959	-	1,030
				1960	Dec. 16, 1959	-	2,020
1946	Feb. 13, 1946	-	1,530				

810. Winnipesaukee River at Tilton, N.H.

Location.--Lat 43°26'30", long 71°35'15", on right bank at Tilton, Belknap County, 0.3 mile upstream from Packer Brook.

Drainage area.--471 sq mi.

Gage.--Recording. Datum of gage is 441.87 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above on basis of flow-over-dam measurement at 3,810 cfs.

Remarks.--Flow regulated by powerplants and by Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes 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)
1937	May 17, 1937	7.27	3,120	1949	Jan. 7, 1949	5.40	1,200
1938	Sept. 21, 1938	7.90	3,810	1950	Apr. 28,29,1950	5.72	1,510
1939	Dec. 7, 1938	6.52	2,420				
1940	May 5, 1940	6.99	2,510	1951	Apr. 3,4, 1951	7.43	3,080
				1952	Apr. 6, 1952	6.92	2,600
1941	Feb. 15, 1941	5.64	1,380	1953	Mar. 27, 1953	7.93	3,720
1942	Mar. 9, 1942	5.60	1,220	1954	May 11, 1954	7.91	3,700
1943	May 18,19,1943	6.33	1,760	1955	Jan. 14, 1955	6.04	1,930
1944	Sept. 15, 1944	6.31	1,730				
1945	May 19, 1945	7.14	2,530	1956	June 5-6, 1956	5.93	1,940
				1957	Jan. 15, 1957	a5.68	1,690
1946	Feb. 16, 1946	6.23	1,770	1958	May 1, 1958	6.78	2,700
1947	June 15, 1947	6.53	2,010	1959	Apr. 4, 1959	6.18	2,160
1948	May 26, 1948	6.54	2,020	1960	Apr. 5, 1960	7.37	3,390

a Backwater from ice.

815. Merrimack River at Franklin Junction, N.H.

Location.--Lat 43°25'25", long 71°39'10", on right bank at Franklin Junction, Merrimack County, 1 mile downstream from confluence of Pemigewasset and Winnipesaukee Rivers.

Drainage area.--1,507 sq mi.

Gage.--Nonrecording at bridge 350 ft downstream at same datum prior to Sept. 13, 1923; recording thereafter. Datum of gage is 250.4 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs and extended above on basis of slope-area and flow-over-dam measurements at 59,200 cfs, and velocity-area study.

Remarks.--Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Little Squam, Newfound, Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes. 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	May 1, 1904	14.5	21,200	1933	Apr. 19, 1933	19.99	30,700
1905	Mar. 30, 1905	13.9	19,900	1934	Apr. 13, 1934	19.45	29,400
				1935	Jan. 11, 1935	16.88	24,000
1906	Apr. 16, 1906	17.2	27,100				
1907	May 1, 1907	12.8	17,500	1936	Mar. 19, 1936	39.4	83,000
1908	Nov. 3, 1907	15.0	22,300	1937	May 15, 1937	16.25	22,500
1909	Apr. 15, 1909	18.5	30,000	1938	Sept.22, 1938	29.5	59,200
				1939	Dec. 7, 1938	17.60	26,800
1911	May 2, 1911	11.3	14,200	1940	May 3, 1940	19.44	31,400
1912	Apr. 8, 1912	13.8	19,700				
1913	Mar. 28, 1913	18.3	29,600	1941	Nov. 15, 1940	10.87	11,700
1914	Apr. 21, 1914	19.5	32,300	1942	June 16, 1942	13.82	18,000
1915	Feb. 26, 1915	18.8	30,700	1943	May 13, 1943	12.90	16,000
				1944	Nov. 9, 1943	13.34	17,000
1916	May 18, 1916	15.2	22,700	1945	Mar. 30, 1945	13.55	17,400
1917	June 18, 1917	16.0	24,500				
1918	Oct. 31, 1917	13.0	18,000	1946	Dec. 8, 1945	14.60	18,000
1919	May 23, 1919	16.8	26,300	1947	Apr. 13, 1947	14.27	16,800
1920	Apr. 14, 1920	17.5	27,800	1948	Apr. 2, 1948	14.05	17,600
				1949	Jan. 1, 1949	13.99	17,500
1921	Dec. 15, 1920	15.0	22,300	1950	Apr. 21, 1950	15.30	20,200
1922	Apr. 12, 1922	19.0	31,100				
1923	Apr. 30, 1923	24.0	43,700	1951	Apr. 4, 1951	16.34	22,400
1924	Sept.11, 1924	14.5	19,300	1952	June 3, 1952	15.40	21,300
1925	Feb. 13, 1925	22.8	37,400	1953	Mar. 26, 1953	16.20	22,100
				1954	May 11, 1954	15.18	20,000
1926	Apr. 26, 1926	15.12	20,600	1955	Apr. 16, 1955	12.63	15,000
1927	Nov. 17, 1926	11.02	12,200				
1928	Nov. 5, 1927	30.85	63,000	1956	Apr. 30, 1956	13.21	16,400
1929	May 4, 1929	17.67	27,300	1957	Apr. 22, 1957	9.03	8,120
1930	Apr. 8, 1930	16.14	23,300	1958	Apr. 24, 1958	14.80	19,400
				1959	Apr. 5, 1959	12.71	15,500
1931	June 10, 1931	14.24	18,900	1960	Apr. 5, 1960	16.02	21,800
1932	Apr. 13, 1932	17.73	27,300				

820. Contoocook River at Peterboro, N.H.

Location.--Lat 42°51'45", long 71°57'35", on left bank 1,100 ft downstream from milldam, 1 mile south of Peterboro, Hillsboro County, and 1½ miles upstream from Nubanusit Brook.

Drainage area.--Area, 68.1 sq mi. Area of lakes, reservoirs, and ponds, 1.91 sq mi. Length of main stream, 14.0 miles. Average slope above gage, 33.9 ft per mile.

Gage.--Recording. Altitude of gage is 740 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended above by logarithmic plotting. Small changes in relation occur.

Historical data.--Flood in September 1938 reached a stage of about 15 ft, from information by local residents.

Remarks.--Flow regulated by mill and reservoirs above station. Base for partial-duration series, 700 cfs.

Peak stages and discharges of Contoocook River at Peterboro, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	September 1938	15	-	1954	Sept.11, 1954	5.32	1,780
1946	Mar. 9, 1946	4.45	1,090	1955	Nov. 3, 1954	4.64	1,290
	May 28, 1946	3.72	734		Dec. 15, 1954	3.64	710
1947	Apr. 7, 1947	3.72	750	1956	Oct. 15, 1955	5.20	1,680
					Nov. 5, 1955	4.17	1,000
1948	Mar. 22, 1948	5.22	1,700		Jan. 10, 1956	5.66	2,050
	Mar. 28, 1948	3.83	805		Apr. 16, 1956	4.10	960
	May 18, 1948	3.70	740		Apr. 22, 1956	3.68	730
					Apr. 29, 1956	5.39	1,830
1949	Jan. 6, 1949	4.30	1,080				
				1957	Jan. 23, 1957	a5.25	-
1950	Apr. 5, 1950	3.70	740		Jan. 24, 1957	-	600
1951	Nov. 26, 1950	6.35	2,640	1958	Dec. 21, 1957	3.86	820
	Feb. 7, 1951	3.97	882		Apr. 18, 1958	4.56	1,240
	Mar. 31, 1951	5.05	1,580		Apr. 30, 1958	4.03	918
	Apr. 30, 1951	5.10	1,610				
				1959	Jan. 22, 1959	a5.55	-
1952	Nov. 3, 1951	4.39	1,130		Apr. 3, 1959	4.87	1,450
	Apr. 5, 1952	4.46	1,180				
				1960	Oct. 24, 1959	4.87	1,450
1953	Feb. 21, 1953	3.70	740		Nov. 28, 1959	4.06	936
	Mar. 13, 1953	4.42	1,150		Dec. 13, 1959	3.92	852
	Mar. 16, 1953	5.00	1,540		Mar. 31, 1960	4.03	918
	Mar. 27, 1953	4.23	1,040		Apr. 5, 1960	5.47	1,900
	Mar. 30, 1953	4.01	906		Apr. 15, 1960	4.00	900
					June 15, 1960	4.41	1,150
1954	Apr. 18, 1954	4.12	972		Sept.12, 1960	5.93	2,260
	May 16, 1954	4.01	906				
	Aug. 31, 1954	5.00	1,540				

a Backwater from ice.

830. Nubanusit Brook near Peterboro, N.H.

Location.--Lat 42°53'10", long 71°58'25", on left bank $1\frac{1}{4}$ miles downstream from Edward MacDowell Reservoir, 1.3 miles northwest of Peterboro, Hillsboro County, and $1\frac{1}{2}$ miles upstream from mouth.

Drainage area.--Area, 46.9 sq mi. Area of lakes, reservoirs, and ponds, 2.70 sq mi. Length of main stream, 16.6 miles. Average slope above gage, 37.3 ft per mile.

Gage.--Nonrecording at site 550 ft downstream at different datum prior to Oct. 1, 1931; recording at present site and datum since July 10, 1945. Altitude of gage is 790 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 380 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Flow regulated by mills and by Nubanusit Lake and other reservoirs above station since beginning of record and by Edward MacDowell Reservoir since March 1950. 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)
1921	Mar. 10, 1921	5.4	1,050	1948	Mar. 23, 1948	5.43	992
1922	June 22, 1922	5.08	832	1949	Jan. 7, 1949	3.74	450
1923	Apr. 6, 1923	5.2	880	1950	Apr. 6, 1950	3.84	475
1924	Apr. 8, 1924	5.30	990				
1925	Mar. 31, 1925	4.60	550	1951	Apr. 11, 1951	4.07	556
				1952	Nov. 5, 1951	4.03	544
1926	Apr. 26, 1926	4.70	600	1953	Mar. 16, 1953	4.09	562
1927	Mar. 17, 1927	4.94	734	1954	Apr. 20, 1954	3.84	487
1928	Nov. 4, 1927	5.40	1,010	1955	Apr. 27, 1955	3.71	452
1929	Mar. 17, 1929	4.80	655				
1930	Feb. 22, 1930	-	a300	1956	May 7, 1956	4.34	637
				1957	Jan. 28, 1957	3.08	303
1931	Apr. 11, 1931	5.59	1,130	1958	Apr. 29, 1958	4.42	661
				1959	Apr. 8, 1959	4.33	634
1946	Mar. 9, 1946	4.39	657	1960	Apr. 12, 1960	4.54	699
1947	Apr.7,8, 1947	3.93	509				

a Estimated.

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835. Contoocook River near Elmwood, N.H.

Location.--Lat 42°57'20", 71°56'10", near center of span on upstream side of covered highway bridge 1,000 ft downstream from Kimball Brook and 1¼ miles south of Elmwood, Hillsboro County.

Drainage area.--168 sq mi.

Gage.--Nonrecording. Altitude of gage is 675 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter and indirect measurements. Large change in relation since April 1924.

Remarks.--Some regulation by mills and by Nubanusit Lake and other 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)
1918	Apr. 2, 1918	-	a2,300	1922	June 22, 1922	9.4	2,660
1919	Mar. 23, 1919	9.9	2,890	1923	Apr. 6, 1923	10.5	3,220
1920	Mar. 28, 1920	-	a3,400	1924	Apr. 8, 1924	11.5	4,720
1921	Mar. 10, 1921	12.2	4,240				

840. North Branch Contoocook River near Antrim, N.H.

Location.--Lat 43°04'55", long 71°58'40", on right bank at North Branch, 4 miles northwest of Antrim, Hillsboro County, and 6 miles upstream from mouth.

Drainage area.--Area, 54.8 sq mi. Length of main stream, 23.4 miles. Average slope above gage, 24.4 ft per mile. Average tributary slope, 208 ft per mile. Average land slope, 610 ft per mile. Stream density, 2.32 miles per square mile. Mean altitude of basin, 1,542 ft.

Gage.--Nonrecording prior to Jan. 8, 1941; recording thereafter. Datum of gage is 882.38 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above on basis of slope-area measurements at gage heights 8.4 and 9.3 ft. Minor changes in relation occur.

Remarks.--Flow regulated by Highland Lake and several ponds 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)
1925	Feb. 14, 1925	5.40	1,170	1943	Mar. 29, 1943	3.64	496
				1944	June 26, 1944	5.32	1,130
1926	Apr. 26, 1926	5.74	1,340	1945	Mar. 22, 1945	4.62	860
1927	Mar. 20, 1927	4.10	615				
1928	Nov. 5, 1927	6.40	1,750	1946	Mar. 9, 1946	-	a550
1929	Apr. 27, 1929	4.38	717	1947	Apr. 13, 1947	4.94	960
1930	Mar. 26, 1930	3.35	386	1948	Mar. 23, 1948	5.55	1,280
				1949	Jan. 7, 1949	3.89	542
1931	Apr. 12, 1931	5.02	1,060	1950	Apr. 6, 1950	4.66	832
1932	Apr. 12, 1932	4.72	908				
1933	Apr. 19, 1933	6.67	1,950	1951	Nov. 27, 1950	6.01	1,510
1934	Apr. 13, 1934	6.39	1,740	1952	Apr. 7, 1952	5.07	1,020
1935	Jan. 11, 1935	4.90	940	1953	Mar. 28, 1953	5.36	1,150
				1954	Apr. 20, 1954	3.99	576
1936	Mar. 19, 1936	9.30	5,000	1955	Aug. 15, 1955	4.05	598
1937	May 16, 1937	4.85	970				
1938	Sept.22, 1938	8.40	3,640	1956	May 1, 1956	5.86	1,420
1939	Apr. 22, 1939	5.00	985	1957	Jan. 24, 1957	3.84	527
1940	May 4, 1940	5.70	1,320	1958	Apr. 23, 1958	5.86	1,420
				1959	Apr. 6, 1959	4.50	765
1941	Feb. 11, 1941	-	a440	1960	Oct. 25, 1959	6.44	1,790
1942	Apr. 9, 1942	4.28	740				

a Estimated.

845. Beards Brook near Hillsboro, N.H.

Location.--Lat 43°06'50", long 71°55'35", on right bank 300 ft upstream from bridge on State Highway 9, 500 ft upstream from mouth, and 1½ miles west of Hillsboro, Hillsboro County.

Drainage area.--Area, 55.4 sq mi. Area of lakes, reservoirs, and ponds, 1.06 sq mi. Length of main stream, 12.2 miles. Average slope above gage, 78.3 ft per mile.

Gage.--Recording. Altitude of gage is 595 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 910 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 10, 1946	4.39	954	1953	Mar. 27, 1953	5.88	1,650
1947	Apr. 12, 1947	4.93	1,140	1954	Apr. 18, 1954	5.09	1,220
1948	Mar. 22, 1948	6.27	1,880	1955	Nov. 4, 1954	4.42	894
1949	Jan. 1, 1949	4.45	908	1956	Jan. 10, 1956	-	1,300
					Apr. 30, 1956	5.63	1,500
1950	Apr. 5, 1950	4.83	1,100				
	Apr. 21, 1950	4.55	955	1957	Jan. 23, 1957	a5.58	-
					Jan. 23, 1957	3.75	600
1951	Nov. 26, 1950	6.59	2,070				
	Mar. 31, 1951	6.04	1,740	1958	Dec. 21, 1957	4.61	985
	Apr. 3, 1951	6.26	1,880		Jan. 23, 1958	a5.23	-
	Apr. 11, 1951	4.79	1,080		Apr. 18, 1958	4.99	1,180
1952	Nov. 4, 1951	5.01	1,180	1959	Apr. 3, 1959	-	1,100
	Apr. 6, 1952	5.90	1,660				
	June 2, 1952	4.80	1,080	1960	Oct. 25, 1959	6.53	2,190
					Apr. 1, 1960	-	1,000
1953	Mar. 14, 1953	4.88	1,120		Apr. 5, 1960	6.46	2,150
	Mar. 16, 1953	5.14	1,560		Apr. 16, 1960	4.64	1,100
	Mar. 25, 1953	5.08	1,220		Sept.13, 1960	5.24	1,300

a Backwater from ice.

850. Contoocook River near Henniker, N.H.

Location.--Lat 43°09'10", long 71°51'25", on right bank 1.6 miles downstream from Sand Brook and 2.2 miles southwest of Henniker, Merrimack County.

Drainage area.--Area, 368 sq mi. Area of lakes, reservoirs, and ponds, 11.8 sq mi. Length of main stream, 44.0 miles. Average slope above gage, 13.6 ft per mile.

Gage.--Nonrecording prior to Dec. 18, 1939; recording thereafter. Altitude of gage is 475 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter and indirect measurements. Minor shifts in relation occur.

Historical data.--Flood of Sept. 21, 1938, reached a stage of 21.3 ft, from floodmarks (discharge, 22,200 cfs, by flow-over-dam measurement 0.8 mile above station).

Remarks.--Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir since March 1950, Highland Lake, Jackman Reservoir, and other 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)
1938	Sept.21, 1938	21.3	22,200	1945	Mar. 22, 1945	10.83	5,040
1940	Apr. 13, 1940	12.72	8,020	1946	Mar. 10, 1946	10.19	4,080
				1947	Apr. 8, 1947	10.15	3,930
1941	Feb. 10, 1941	8.60	1,910	1948	Mar. 23, 1948	12.29	7,590
1942	Mar. 11, 1942	9.92	3,670	1949	Jan. 7, 1949	9.65	3,160
1943	Mar. 27, 1943	9.23	2,780	1950	Apr. 5, 1950	10.02	3,720
1944	June 26, 1944	13.13	9,460				

Peak stages and discharges of Contoocook River near Henniker, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 4, 1951	11.80	6,740	1956	May 1, 1956	12.05	7,180
1952	Apr. 6, 1952	11.52	6,240	1957	Jan. 24, 1957	9.56	3,030
1953	Mar. 27, 1953	11.52	6,240	1958	Apr. 23, 1958	10.92	5,200
1954	Apr. 19, 1954	9.94	3,600	1959	Apr. 4, 1959	a11.88	5,750
1955	Nov. 5, 1954	9.60	3,090	1960	Apr. 6, 1960	13.12	9,440

a Occurred Jan. 24, 1959; backwater from ice.

860. Warner River at Davisville, N.H.

Location.--Lat 43°15'05", long 71°43'50", on left bank 60 ft downstream from highway bridge in Davisville, Merrimack County, 2¼ miles northwest of Contoocook, and 2.4 miles upstream from mouth.

Drainage area.--Area, 146 sq mi. Length of main stream, 23.7 miles. Average slope above gage, 31.8 ft per mile. Average tributary slope, 163 ft per mile. Average land slope, 652 ft per mile. Stream density, 1.54 miles per square mile. Mean altitude of basin, 965 ft.

Gage.--Nonrecording prior to Dec. 22, 1939; recording thereafter. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above by logarithmic plotting. Small changes in relation occur.

Historical data.--Flood in September 1938 reached a stage of 12.8 ft, from information by local residents.

Remarks.--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)
1938	September 1938	12.8	-	1951	Dec. 9, 1950	6.91	1,410
					Mar. 31, 1951	8.54	2,780
1940	Apr. 13, 1940	8.64	2,810		Apr. 3, 1951	9.39	3,670
	Apr. 20, 1940	7.79	2,060		Apr. 12, 1951	8.02	2,310
	May 5, 1940	7.63	1,920				
	June 1, 1940	7.55	1,840	1952	Nov. 4, 1951	7.44	1,810
					Nov. 8, 1951	6.64	1,220
1941	Feb. 8, 1941	6.53	1,090		Apr. 6, 1952	8.96	3,200
					June 2, 1952	7.57	1,920
1942	Mar. 10, 1942	6.74	1,220				
	Mar. 23, 1942	7.05	1,440	1953	Dec. 13, 1952	6.83	1,350
	June 15, 1942	6.73	1,220		Mar. 14, 1953	7.28	1,690
					Mar. 16, 1953	8.34	2,700
1943	Mar. 28, 1943	6.89	1,330		Mar. 27, 1953	9.88	4,510
					Apr. 17, 1953	6.62	1,200
1944	Nov. 10, 1943	6.99	1,400				
	Apr. 13, 1944	7.03	1,430	1954	Mar. 4, 1954	6.68	1,220
	Apr. 25, 1944	6.93	1,350		Apr. 18, 1954	7.51	1,900
	June 25, 1944	9.64	3,950		May 5, 1954	6.65	1,200
					May 11, 1954	7.61	1,990
1945	Mar. 22, 1945	7.75	2,020		May 17, 1954	6.93	1,410
	Mar. 28, 1945	7.23	1,580				
	Apr. 6, 1945	6.71	1,200	1955	Dec. 19, 1954	6.54	1,120
	Apr. 26-27, 1945	6.75	1,220				
	May 14, 1945	7.09	1,470	1956	Nov. 6, 1955	6.66	1,200
	May 19, 1945	6.91	1,340		Jan. 13, 1956	7.12	1,560
	June 21, 1945	7.00	1,400		Apr. 18, 1956	7.25	1,670
					Apr. 30, 1956	8.00	2,360
1946	Dec. 8, 1945	7.58	1,860				
	Mar. 10, 1946	a7.17	-	1957	Apr. 7, 1957	5.63	604
	Mar. 15, 1946	7.06	1,450				
				1958	Dec. 21, 1957	7.07	1,520
1947	Apr. 8, 1947	6.99	1,400		Apr. 7, 1958	6.91	1,390
	Apr. 13, 1947	7.35	1,680		Apr. 19, 1958	7.70	2,070
					Apr. 30, 1958	7.17	1,600
1948	Mar. 23, 1948	8.58	2,790				
				1959	Apr. 4, 1959	8.10	2,460
1949	Jan. 6-7, 1949	6.69	1,250				
				1960	Oct. 25, 1959	7.18	1,610
1950	Mar. 30, 1950	7.11	1,560		Nov. 29, 1959	6.74	1,260
	Apr. 6, 1950	7.58	1,960		Apr. 5, 1960	9.78	4,380
	Apr. 21, 1950	7.11	1,560		Apr. 16, 1960	7.47	1,860
					Sept. 13, 1960	6.87	1,360
1951	Nov. 27, 1950	7.21	1,630				

a Backwater from ice.

870. Blackwater River near Webster, N.H.

Location.--Lat 43°17'50", long 71°41'40", on left bank 0.2 mile west of Dingit Corner, 2½ miles southeast of Webster, Merrimack County, and 6½ miles upstream from mouth.

Drainage area.--Area, 129 sq mi. Length of main stream, 32.5 miles. Average slope above gage, 24.5 ft per mile. Average tributary slope, 178 ft per mile. Average land slope, 674 ft per mile. Stream density, 1.65 miles per square mile. Mean altitude of basin, 1,101 ft.

Gage.--Nonrecording at site 5 miles downstream at different datum prior to Oct. 1, 1934; recording at present site and datum thereafter. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs and extended above on basis of slope-area and critical-depth measurements at 11,000 cfs. Minor changes in relation occur.

Remarks.--High flow regulated by Blackwater Reservoir since 1941. 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	Mar. 30, 1919	14.5	2,480	1943	Apr. 30, 1943	6.20	1,580
1920	Mar. 28, 1920	16.0	2,850	1944	Apr. 28, 1944	6.24	1,610
				1945	Apr. 1, 1945	6.53	1,830
1927	Mar. 18, 1927	11.6	1,790				
1928	Nov. 6, 1927	15.4	2,700	1946	Mar. 18, 1946	5.96	1,390
1929	Mar. 25, 1929	11.1	1,680	1947	Apr. 14, 1947	5.95	1,400
1930	Mar. 11, 1930	9.5	1,360	1948	Mar. 25-26,1948	5.73	1,250
				1949	Jan. 2-3,1949	a5.60	1,140
1931	Apr. 13, 1931	10.5	1,560	1950	Apr. 7,23,1950	5.89	1,340
1932	Apr. 14, 1932	12.9	2,080				
1933	Apr. 20, 1933	16.4	2,950	1951	Apr. 16, 1951	7.18	2,390
1934	Apr. 14, 1934	16.4	2,950	1952	Apr. 10, 1952	7.18	2,390
1935	Jan. 12, 1935	-	1,850	1953	Apr.4-5, 1953	7.10	2,320
				1954	May 14, 1954	6.85	2,100
1936	Mar. 19, 1936	11.78	11,000	1955	Aug. 16, 1955	5.86	1,320
1937	May 16, 1937	7.23	2,410				
1938	Sept.22, 1938	10.47	6,880	1956	May 4, 1956	6.89	2,130
1939	Apr. 21, 1939	7.01	2,230	1957	Jan. 25, 1957	4.30	480
1940	May 4, 1940	6.96	2,180	1958	Apr. 25, 1958	-	2,150
				1959	Apr. 6, 1959	7.05	2,220
1941	Feb. 10, 1941	5.39	1,040	1960	Apr. 9, 1960	7.06	2,220
1942	June 18, 1942	6.66	1,930				

a Backwater from ice.

880. Contoocook River at Penacook, N.H.

Location.--Lat 43°17'10", long 71°36'00", on right bank at Penacook, Merrimack County, half a mile upstream from mouth.

Drainage area.--Area, 766 sq mi. Length of main stream, 70.5 miles. Average slope above gage, 10.5 ft per mile. Average tributary slope, 90.2 ft per mile. Average land slope, 575 ft per mile. Stream density, 1.89 miles per square mile. Mean altitude of basin, 1,038 ft.

Gage.--Recording. Datum of gage is 273.09 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor shifts in relation occur.

Remarks.--Flow regulated by mills and by Nubanusit Lake, Edward MacDowell Reservoir since March 1950, Highland Lake, Jackman Reservoir, Blackwater Reservoir since 1941, and other reservoirs above station. Only annual peaks are shown.

Peak stages and discharges Contoocook River at Penacook, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 24, 1929	5.70	8,330	1945	Mar. 22, 1945	6.00	8,840
1930	Mar. 27, 1930	4.87	5,600				
				1946	Mar. 11, 1946	b5.43	6,500
1931	Apr. 13, 1931	5.82	8,750	1947	Apr. 9, 1947	5.33	6,240
1932	Apr. 13, 1932	6.38	11,400	1948	Mar. 23, 1948	7.39	13,500
1933	Apr. 20, 1933	7.86	17,600	1949	Jan. 8, 1949	4.79	5,260
1934	Apr. 14, 1934	7.66	16,600	1950	Apr. 6, 1950	5.47	7,150
1935	Jan. 11, 1935	5.47	7,540				
				1951	Apr. 4, 1951	6.78	11,800
1936	Mar. 20, 1936	14.26	46,800	1952	Apr. 6, 1952	6.57	10,900
1937	May 16, 1937	6.29	10,500	1953	Mar. 28, 1953	6.65	11,300
1938	Sept.23, 1938	13.34	42,400	1954	Apr. 19, 1954	5.38	6,880
1939	Apr. 22, 1939	6.41	10,900	1955	Apr.27-28, 1955	4.69	5,000
1940	Apr. 14, 1940	7.13	13,100				
				1956	May 1, 1956	c7.14	10,200
1941	Feb. 10, 1941	a5.03	3,600	1957	Jan. 25, 1957	b5.29	4,000
1942	Mar. 24, 1942	4.84	5,420	1958	Apr. 23, 1958	5.90	8,500
1943	Mar. 28, 1943	4.87	5,420	1959	Apr. 5, 1959	b7.26	10,300
1944	June 26, 1944	7.35	14,200	1960	Apr. 6, 1960	7.87	15,300

a Occurred Jan. 16, 1941; backwater from ice.
b Backwater from ice.
c Occurred Jan. 11, 1956; backwater from ice.

885. Merrimack River at Garvins Falls, N.H.

Location.--Lat 43°09'55", long 71°30'35", at dam of Manchester Traction, Light and Power Co. at Garvins Falls, Born County, 3.5 miles below Concord, Concord County.

Drainage area.--2,427 sq mi.

Gage.--Nonrecording. Altitude of gage is 115 ft (from topographic map).

Remarks.--Discharge determined by computation of flow over dam and through turbines and wasteways. Records furnished by Manchester Traction, Light and Power Co. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	March 1905	-	32,800	1911	Apr. 16, 1911	-	18,900
				1912	Apr. 9, 1912	-	23,200
1906	Apr. 17, 1906	-	29,600	1913	Mar. 28, 1913	-	28,000
1907	Mar. 31, 1907	-	20,400	1914	Apr. 22, 1914	-	32,500
1908	Nov. 8, 1907	-	25,500	1915	July 9, 1915	-	31,300
1909	Apr. 16, 1909	-	32,900				
1910	Apr. 1, 1910	-	14,200				

890. Soucook River near Concord, N.H.

Location.--Lat 43°14'22", long 71°27'44", on left bank 500 ft upstream from U.S. Highway 4, 0.9 mile upstream from Cemetery Brook, and 4.4 miles northeast of State Capitol at Concord, Merrimack County.

Drainage area.--76.8 sq mi.

Gage.--Recording. Altitude of gage is 290 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)
1952	Nov. 4, 1951	10.58	1,380	1953	Mar. 16, 1953	11.69	1,900
	Nov. 8, 1951	8.67	701		Mar. 27, 1953	11.66	1,880
	Apr. 6, 1952	12.35	2,380		Mar. 31, 1953	9.37	950
	Apr. 15, 1952	8.62	711		Apr. 14, 1953	8.80	765
	June 2, 1952	9.02	831				
				1954	Apr. 18, 1954	10.11	1,250
1953	Mar. 14, 1953	11.13	1,620		May 10, 1954	12.27	2,330

Peak stages and discharges of Soucook River near Concord, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 17, 1954	9.94	1,190	1958	Dec. 11, 1957	9.42	846
	May 22, 1954	8.79	752		Dec. 22, 1957	9.21	783
	Sept.12, 1954	8.82	762		Apr. 7, 1958	10.17	1,070
1955	Dec. 19, 1954	8.42	641		Apr. 30, 1958	9.08	744
1956	Apr. 17, 1956	10.50	1,410	1959	Apr. 3, 1959	11.77	1,900
	Apr. 30, 1956	9.12	867		Apr. 3, 1959	a12.03	-
1957	Mar. 16, 1957	7.42	398	1960	Apr. 6, 1960	13.34	2,880

a Backwater from ice.

895. Suncook River at North Chichester, N.H.

Location.--Lat 43°15'25", long 71°22'10", on left bank at North Chichester, Merrimack County, 3.1 miles upstream from Little Suncook River.

Drainage area.--Area, 157 sq mi. Length of main stream, 26.1 miles. Average tributary slope, 109 ft per mile. Average land slope, 511 ft per mile. Stream density, 1.93 miles per square mile. Mean altitude of basin 820 ft.

Gage.--Recording. Datum of gage is 329.35 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,800 cfs and extended above on basis of slope-area and contracted-opening measurements at 12,900 cfs. Large change in relation since September 1937.

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)
1919	Mar. 29, 1919	7.9	1,800	1934	Apr. 1, 1934	11.47	4,160
1920	Mar. 14, 1920	-	(a)		Apr. 13, 1934	10.67	3,240
	Mar.27,28, 1920	9.1	2,350	1935	Jan. 10, 1935	b10.38	2,200
	Apr. 29, 1920	-	(a)	1936	Mar. 19, 1936	15.27	12,900
1922	Dec. 18, 1921	7.46	1,620	1937	Dec.20,21,1936	8.66	1,950
	Mar. 21, 1922	b8.96	-		Feb. 23, 1937	11.80	4,670
	Mar. 29, 1922	8.41	2,030	1938	Nov. 14, 1937	9.46	2,420
	Apr. 10, 1922	8.30	1,980		Nov. 29, 1937	9.53	2,460
	May 6, 1922	8.42	2,040		Dec. 7, 1937	8.51	1,850
	June 22, 1922	8.63	2,130		Jan. 26, 1938	9.00	2,130
1923	Apr. 7, 1923	13.0	6,580		Sept.21, 1938	8.96	2,110
	Apr. 30, 1923	9.99	2,860	1939	Dec. 6, 1938	8.39	1,800
1924	Nov. 25, 1923	-	(a)		Apr. 20, 1939	8.95	2,130
	Apr. 7, 1924	11.25	3,940	1940	Apr. 13, 1940	11.35	4,090
	Apr. 20, 1924	8.25	1,940		Apr.21,22,1940	-	(a)
1925	Feb. 13, 1925	9.44	2,520		May 5, 1940	8.81	1,920
	Mar. 20, 1925	7.36	1,550	1941	Feb. 9, 1941	(b)	1,160
	Mar. 30, 1925	9.97	2,780	1942	Mar. 10, 1942	b11.03	2,200
1926	Apr. 10, 1926	7.95	1,810		Mar. 23, 1942	7.87	1,550
	Apr. 26, 1926	8.20	1,920	1943	Dec. 2, 1942	7.41	1,420
1927	Mar. 18, 1927	9.65	2,620	1944	Sept.15, 1944	7.72	1,470
1929	Mar. 16, 1929	9.14	2,350	1945	Mar. 22, 1945	8.88	1,960
	Mar. 23, 1929	8.30	1,970	1946	Mar. 10, 1946	b9.32	2,100
1930	Mar. 26, 1930	8.44	2,020	1947	Apr. 7, 1947	6.97	1,200
1931	Mar. 29, 1931	7.26	1,530	1948	Mar. 22, 1948	b11.99	3,900
1932	Apr. 1, 1932	8.91	2,260	1949	Jan. 6, 1949	7.29	1,300
	Apr. 13, 1932	9.17	2,430				
	Sept.17, 1932	7.52	1,600				
1933	Apr. 8, 1933	9.12	2,210				
	Apr. 19, 1933	11.3	3,930				

a No record; probably above 1,500 cfs.
b Backwater from ice.

Peak stages and discharges of Suncook River at North Chichester, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 6, 1950	7.66	1,430	1954	Sept.12, 1954	9.74	2,500
1951	Apr. 1, 1951	9.09	2,070	1955	Nov. 4, 1954	8.05	1,590
	Apr. 4, 1951	9.71	2,480				
				1956	Jan. 10, 1956	b12.98	-
1952	Nov. 4, 1951	10.36	3,000		Jan. 13, 1956	8.85	1,940
	Nov. 8, 1951	8.12	1,620		Apr. 17, 1956	9.89	2,610
	Apr. 6, 1952	10.68	3,300		Apr. 30, 1956	8.97	2,000
	Apr. 15, 1952	8.02	1,580				
				1957	Jan. 24, 1957	-	950
1953	Dec. 13, 1952	9.51	2,340				
	Mar. 14, 1953	10.28	2,930	1958	Dec. 11, 1957	7.91	1,530
	Mar. 16, 1953	11.23	3,890		Jan. 27, 1958	b9.51	-
	Mar. 27, 1953	12.55	5,760		Apr. 7, 1958	8.82	1,930
	Apr. 17, 1953	7.82	1,500				
				1959	Apr. 3, 1959	11.01	3,480
1954	Apr. 18, 1954	9.25	2,170				
	May 10, 1954	11.88	4,720	1960	Apr. 1, 1960	9.62	2,300
	May 16, 1954	8.81	1,920		Apr. 5, 1960	12.40	5,200

b Backwater from ice.

905. Merrimack River at Manchester, N.H.

Location.--Lat 43°00'10", long 71°28'10", at Amoskeag Dam at Manchester, Hillsboro County, 2 miles upstream from Piscataquog River and 9½ miles downstream from Suncook River.

Drainage area.--2,854 sq mi.

Remarks.--Discharge computed from flow over dam and through wheels and gates by cooperating parties. Flow regulated by reservoirs upstream. Records prior to October 1937 furnished by Amoskeag Manufacturing Co.; thereafter by Public Service Co. of New Hampshire. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Mar. 30, 1925	-	42,000	1938	Sept.23, 1938	-	84,700
				1939	Apr. 21, 1939	-	37,100
1926	Apr. 26, 1926	-	33,700	1940	May 5, 1940	-	40,800
1927	Mar. 17, 1927	-	21,500				
1928	Nov. 5, 1927	-	56,000	1941	Nov. 16, 1940	-	13,700
1929	May 5, 1929	-	27,700	1942	Apr. 9, 1942	-	20,600
1930	Apr. 8, 1930	-	24,000	1943	May 14, 1943	-	21,000
				1944	June 26, 1944	-	31,700
1931	Apr. 12, 1931	-	23,300	1945	Mar. 22, 1945	-	25,900
1932	Apr. 13, 1932	-	45,300				
1933	Apr. 19, 1933	-	56,800	1946	Dec. 9, 1945	-	30,000
1934	Apr. 14, 1934	-	42,800	1947	Apr. 13, 1947	-	27,000
1935	Jan. 11, 1935	-	29,200	1948	Mar. 24, 1948	-	35,000
				1949	Jan. 8, 1949	-	22,700
1936	Mar. 20, 1936	-	132,000	1950	Apr. 22, 1950	-	32,000
1937	May 16, 1937	-	33,300				

910. South Branch Piscataquog River near Goffstown, N.H.

Location.--Lat 43°00'50", long 71°38'30", on right bank 20 ft upstream from highway bridge, 1.4 miles upstream from mouth, and 2.2 miles west of Goffstown, Hillsboro County.

Drainage area.--Area, 104 sq mi. Area of lakes, reservoirs, and ponds, 0.69 sq mi. Length of main stream, 19.7 miles. Average slope above gage, 30.6 ft per mile.

Gage.--Recording. Altitude of gage is 310 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Small changes in relation occur.

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

Peak stages and discharges of South Branch Piscataquog River near Goffstown, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Feb. 8, 1941	a9.82	b1,600	1952	June 2, 1952	7.15	1,760
1942	Mar. 9, 1942	a9.95	-	1953	Mar. 14, 1953	8.05	2,550
	Mar. 22, 1942	6.80	1,460		Mar. 16, 1953	8.60	3,110
	June 15, 1942	9.00	3,550		Mar. 25, 1963	6.40	1,200
					Mar. 27, 1953	7.39	1,950
1943	Mar. 28, 1943	6.11	1,060		Mar. 30, 1953	7.21	1,810
					Apr. 14, 1953	6.49	1,260
1944	Apr. 25, 1944	6.23	1,090		Apr. 17, 1953	6.28	1,120
	June 25, 1944	9.47	4,100				
	Sept.15, 1944	7.15	1,740	1954	Mar. 4, 1954	6.17	1,050
					Apr. 18, 1954	7.18	1,780
1945	Mar. 22, 1945	7.23	1,800		May 9, 1954	6.68	1,400
	Apr. 26, 1945	6.71	1,420		May 16, 1954	7.48	2,030
	May 16, 1945	6.38	1,190		May 22, 1954	6.75	1,440
	May 19, 1945	6.72	1,420		Aug. 31, 1954	7.46	2,010
					Sept.12, 1954	8.57	3,080
1946	Dec. 8, 1945	-	(c)				
	Mar. 9, 1946	a8.87	b1,700	1955	Nov. 4, 1954	7.06	1,690
	Mar. 15, 1946	6.44	1,230		Dec. 15, 1954	-	1,800
					Dec. 19, 1954	-	1,300
1947	Apr. 7, 1947	6.16	1,050				
				1956	Oct. 17, 1955	6.71	1,420
1948	Nov. 12, 1947	6.23	1,090		Oct. 31, 1955	6.21	1,080
	Mar. 20, 1948	11.18	-		Nov. 5, 1955	7.26	1,850
	Mar. 22, 1948	8.15	2,650		Jan. 9, 1956	a10.69	-
	May 18, 1948	6.60	1,340		Jan. 10, 1956	-	2,750
					Apr. 17, 1956	7.13	1,740
1949	Jan. 6, 1949	6.03	968		Apr. 30, 1956	7.81	2,330
1950	Mar. 30, 1950	6.62	1,350	1957	Jan. 23, 1957	a7.78	-
	Apr. 5, 1950	6.16	1,050		Jan. 24, 1957	6.06	986
1951	Nov. 26, 1950	7.82	2,340	1958	Dec. 21, 1957	6.41	1,210
	Dec. 9, 1950	6.56	1,310		Jan. 27, 1958	6.59	1,330
	Feb. 8, 1951	a8.55	-		Jan. 27, 1958	a8.85	-
	Feb.18 or 19, 1951	a8.14	-		Apr. 7, 1958	7.68	2,210
					Apr. 17, 1958	6.46	1,240
	Mar. 20, 1951	6.68	1,400		Apr. 30, 1958	6.85	1,520
	Mar. 31, 1951	7.68	2,210				
	Apr. 3, 1951	7.94	2,450	1959	Apr. 3, 1959	8.39	2,890
1952	Nov. 3, 1951	7.46	2,010	1960	Oct. 25, 1959	6.62	1,350
	Nov. 8, 1951	6.33	1,150		Apr. 1, 1960	7.02	1,660
	Apr. 6, 1952	8.72	3,240		Apr. 5, 1960	9.23	3,820
	Apr. 14, 1952	6.34	1,160		Apr. 13, 1960	6.14	1,030
	Apr. 29, 1952	6.47	1,250		June 16, 1960	6.13	1,030
	May 12, 1952	6.37	1,180		Sept.13, 1960	8.47	2,970

a Backwater from ice.
b Estimated.
c No record; probably greater than 1,000 cfs.

915. Piscataquog River near Goffstown, N.H.

Location.--Lat 43°01'00", long 71°33'00", on left bank 300 ft upstream from highway bridge, 0.2 mile upstream from Harry Brook, 0.4 mile southwest of Grasmere, and 2.5 miles east of Goffstown, Hillsboro County.

Drainage area.--Area, 202 sq mi. Area of lakes, reservoirs, and ponds, 2.01 sq mi. Length of main stream, 24.9 miles. Average slope above gage, 26.6 ft per mile.

Gage.--Nonrecording prior to Dec. 22, 1939; recording thereafter. Altitude of gage is 185 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,400 cfs and extended above on basis of flow-over-dam measurements at discharges of 19,900 and 21,900 cfs. Relation stable.

Historical data.--Maximum discharge known, 21,900 cfs Sept. 21, 1938 (gage height, 17.52 ft, from floodmarks).

Remarks.--Flow regulated by powerplant above station. Only annual peaks are shown.

Peak stages and discharges of Piscataquog River near Goffstown, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 19, 1936	16.03	19,900	1949	Jan.6,7, 1949	6.42	1,480
				1950	Mar. 30, 1950	7.50	2,430
1938	Sept.21, 1938	17.52	21,900				
				1951	Apr. 4, 1951	9.01	4,120
1940	Apr. 13, 1940	9.6	4,920	1952	Apr. 6, 1952	9.89	5,340
				1953	Mar. 16, 1953	9.78	5,170
1941	Feb. 8, 1941	6.80	1,780	1954	Sept.12, 1954	9.13	4,280
1942	June 15, 1942	10.79	6,760	1955	Dec. 15, 1954	7.42	2,350
1943	Mar. 28, 1943	6.93	1,920				
1944	June 25, 1944	10.66	6,530	1956	Apr. 30, 1956	8.75	3,800
1945	Mar. 22, 1945	8.21	3,170	1957	Jan. 24, 1957	6.15	1,210
				1958	Apr. 7, 1958	8.53	3,540
1946	Mar. 10, 1946	7.87	2,800	1959	Apr. 3, 1959	9.56	4,860
1947	Apr. 7, 1947	7.09	2,040	1960	Apr. 5, 1960	10.85	6,840
1948	Mar. 22, 1948	9.41	4,650				

920. Merrimack River near Goffs Falls, below Manchester, N.H.

Location.--Lat 42°56'55", long 71°27'45", on right bank 0.8 mile downstream from Bowman Brook, 1.3 miles north of Goffs Falls, Hillsboro County, and 2.3 miles downstream from Piscataquog River.

Drainage area.--3,092 sq mi.

Gage.--Recording. Altitude of gage is 105 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 48,000 cfs and extended above on basis of flow-over-dam measurements at 102,500 and 150,000 cfs.

Historical data.--Maximum discharge known, 150,000 cfs Mar. 20, 1936 (gage height, 35.19 ft, from floodmarks), from rating curve extended above 48,000 cfs by method explained above.

Remarks.--Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. Base for partial-duration series, 22,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 20, 1936	35.19	150,000	1946	Dec. 9, 1945	10.51	30,400
					Mar. 11, 1946	9.13	23,000
1937	Dec. 21, 1936	9.49	24,000		Mar. 17, 1946	9.64	25,700
	Feb. 23, 1937	9.90	25,900				
	May 16, 1937	11.52	33,700	1947	Apr. 14, 1947	10.14	27,700
1938	Nov. 15, 1937	9.50	24,000	1948	Mar. 23, 1948	12.15	38,200
	Nov. 30, 1937	9.80	25,400		Mar. 29, 1948	9.40	24,000
	Mar. 25, 1938	9.52	24,000		Apr. 3, 1948	9.31	23,600
	Sept.23, 1938	25.87	102,500				
				1949	Jan. 2, 1949	9.01	22,000
1939	Dec. 7, 1938	11.45	33,100				
	Dec. 11, 1938	9.99	26,400	1950	Apr. 6, 1950	9.64	25,200
	Apr. 21, 1939	12.07	36,500		Apr. 22, 1950	10.42	29,200
1940	Apr. 14, 1940	13.20	41,800	1951	Nov. 28, 1950	10.16	27,800
	Apr. 21, 1940	9.86	25,900		Apr.4,5, 1951	13.45	44,600
	May 5, 1940	12.96	40,800		Apr. 12, 1951	9.85	26,200
	June 2, 1940	9.45	23,500				
				1952	Nov. 5, 1951	10.54	29,800
1941	Nov. 16, 1940	7.58	15,200		Apr. 7, 1952	13.30	43,900
					June 3, 1952	10.48	29,500
1942	June 16, 1942	9.27	24,200				
				1953	Dec. 13, 1952	9.98	26,900
1943	May 14, 1943	9.18	23,600		Mar. 17, 1953	11.83	36,500
					Mar. 28, 1953	13.90	46,900
1944	Nov. 10, 1943	8.90	22,100				
	June 26, 1944	11.39	35,000	1954	Apr. 19, 1954	10.59	29,700
					May 11, 1954	12.46	38,600
1945	Mar. 22, 1945	10.49	30,300		May 17, 1954	9.78	25,800
	Mar. 31, 1945	9.98	27,700		Sept.13, 1954	9.89	26,300
	Apr. 6, 1945	9.32	24,300				
	May 16, 1945	9.30	24,200	1955	Apr. 17, 1955	8.62	20,200
	May 20, 1945	9.55	25,500				

Peak stages and discharges of Merrimack River near Goffs Falls below Manchester, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Apr. 18, 1956	10.44	29,000	1959	Apr. 5, 1959	12.01	36,500
	May 1, 1956	11.55	34,300				
				1960	Oct. 26, 1959	10.07	27,200
1957	Jan. 25, 1957	7.12	13,100		Nov. 30, 1959	10.75	28,000
					Apr. 2, 1960	12.21	35,000
1958	Dec. 22, 1957	9.71	25,400		Apr. 6, 1960	17.42	59,000
	Apr. 7, 1958	9.08	22,400		Apr. 17, 1960	11.25	28,000
	Apr. 24, 1958	10.78	30,600				
	May 1, 1958	9.74	25,600				

930. Sucker Brook at Auburn, N.H.
(Published as "Clark Brook" prior to 1959)

Location.--Lat 43°00'20", long 71°20'55", on left bank at Auburn, Rockingham County, 0.4 mile upstream from Massabesic Lake.

Drainage area.--27.8 sq mi.

Gage.--Recording. Datum of gage is 252.60 ft above mean sea level (city of Manchester bench mark).

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

Remarks.--Flow regulated by Tower Hill Pond (capacity, 182,000,000 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)
1938	July 30, 1938	1.94	290	1950	Apr.21,22,1950	1.55	162
1939	Apr. 20, 1939	2.03	310				
1940	Apr. 13, 1940	2.14	355	1951	Apr. 4, 1951	1.92	277
				1952	Apr. 7, 1952	2.16	364
1941	Feb. 9, 1941	1.49	140	1953	Mar. 16, 1953	2.37	494
1942	Mar. 10, 1942	1.73	227	1954	Sept.12, 1954	2.55	602
1943	Dec. 3, 1942	1.74	217	1955	Dec. 19, 1954	1.68	189
1944	Apr. 17, 1944	1.64	187				
1945	May 19, 1945	1.82	242	1956	Apr.17,18,1956	2.18	390
				1957	Oct. 24, 1956	1.33	102
1946	Mar. 9, 1946	1.61	178	1958	Apr. 8, 1958	1.94	291
1947	Mar.16,17,1947	1.50	150	1959	Apr. 3, 1959	2.20	430
1948	Mar. 23, 1948	1.83	246	1960	Apr. 6, 1960	2.43	561
1949	Apr. 20, 1949	1.40	125				

940. Souhegan River at Merrimack, N.H.

Location.--Lat 42°51'25", long 71°30'30", on left bank at head of Atherton Falls, at Merrimack, Hillsboro County, 1½ miles upstream from mouth.

Drainage area.--Area, 171 sq mi. Length of main stream, 34.2 miles. Average slope above gage, 31.2 ft per mile. Average tributary slope, 127 ft per mile. Average land slope, 497 ft per mile. Stream density, 2.04 miles per square mile. Mean altitude of basin, 813 ft.

Gage.--Nonrecording prior to Oct. 15, 1913; recording thereafter. At site 300 ft downstream at datum 0.38 ft lower prior to Apr. 12, 1911. Datum of present gage is 160.58 ft above mean sea level, unadjusted (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 7,300 cfs extended above on basis of velocity-area studies and flow-over-dam measurement at gage height 12.78 ft. Small changes in relation occur.

Remarks.--Base for partial-duration series, 2,250 cfs.

Peak stages and discharges of Souhegan River at Merrimack, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 1, 1910	8.4	4,550
1911	Mar. 28, 1911	6.65	2,810
1912	Mar. 30, 1912	6.8	2,550
1913	Mar. 28, 1913	7.47	3,250
1914	Mar. 3, 1914	7.84	3,680
	Mar. 28, 1914	-	(a)
	Apr. 28, 1914	6.78	2,530
1915	Feb. 26, 1915	-	(a)
	July 9, 1915	7.52	3,300
	Aug. 5, 1915	9.6	6,000
1916	Feb. 27, 1916	8.68	4,740
	Apr. 2, 1916	6.79	2,540
	May 18, 1916	7.74	3,560
1917	Mar. 28, 1917	7.51	3,290
1918	Mar. 26, 1918	5.92	1,830
1919	Mar. 29, 1919	7.43	3,200
1920	Mar. 14, 1920	6.92	2,670
	Mar. 28, 1920	8.04	3,920
1921	Dec. 6, 1920	7.15	2,900
	Dec. 15, 1920	9.18	5,410
	Mar. 10, 1921	6.93	2,680
	May 1, 1921	7.54	3,320
1922	May 6, 1922	8.09	3,980
	June 22, 1922	6.93	2,680
1923	Mar. 24, 1923	6.56	2,330
	Apr. 6, 1923	7.65	3,450
1924	Nov. 25, 1923	6.85	2,600
	Apr. 8, 1924	11.82	9,260
	May 13, 1924	-	(a)
1925	Mar. 30, 1925	6.23	2,050
1926	Dec. 5, 1925	6.93	2,590
1927	Mar. 15, 1927	7.12	2,870
1928	Nov. 5, 1927	9.73	6,180
1929	Apr. 22, 1929	6.51	2,290
1930	Mar. 9, 1930	6.78	2,530
1931	Mar. 30, 1931	6.42	2,360
	Apr. 11, 1931	6.92	2,670
	June 10, 1931	7.68	3,490
1932	Apr. 1, 1932	7.71	3,520
	Apr. 13, 1932	7.44	3,210
1933	Nov. 11, 1932	7.25	3,000
	Apr. 5, 1933	6.71	2,470
	Apr. 8, 1933	7.24	2,990
	Apr. 18, 1933	7.44	3,210
1934	Apr. 1, 1934	7.37	3,140
	Apr. 13, 1934	10.66	7,500
1935	Jan. 10, 1935	7.41	3,260
1936	Mar. 13, 1936	10.6	7,340
	Mar. 19, 1936	16.2	16,900
1937	Dec. 21, 1936	7.68	3,450
1938	Nov. 14, 1937	9.92	6,450
1938	Nov. 29, 1937	9.01	5,170
	Jan. 26, 1938	7.18	2,930
	July 30, 1938	6.86	2,610
	Sept. 21, 1938	12.78	10,800
1939	Apr. 20, 1939	6.52	2,280
1940	Apr. 10, 1940	6.96	2,750
	Apr. 13, 1940	8.34	4,250
	May 5, 1940	6.54	2,280
	June 1, 1940	7.55	3,390
1941	Feb. 9, 1941	6.55	2,370
1942	Mar. 10, 1942	8.05	3,880
	Mar. 23, 1942	6.90	2,680
	June 15, 1942	7.14	2,880
1943	Dec. 3, 1942	5.79	1,730
1944	June 25, 1944	10.88	7,830
1945	Mar. 22, 1945	6.67	2,430
1946	Mar. 10, 1946	7.00	2,750
1947	Apr. 7, 1947	5.77	1,680
1948	Mar. 23, 1948	8.10	3,990
1949	Jan. 7, 1949	-	b2,100
1950	Mar. 30, 1950	6.39	2,180
1951	Nov. 27, 1950	7.43	3,200
	Feb. 8, 1951	6.81	2,560
	Feb. 19, 1951	7.28	3,040
	Mar. 31, 1951	-	(a)
	Apr. 4, 1951	-	(a)
1952	Nov. 4, 1951	7.45	3,220
	Apr. 6, 1951	8.34	4,300
	Apr. 29, 1952	6.64	2,410
	June 2, 1952	6.96	2,710
1953	Jan. 25, 1953	6.57	2,340
	Mar. 14, 1953	-	3,630
	Mar. 16, 1953	-	4,650
	Mar. 27, 1953	-	(a)
	Mar. 31, 1953	6.73	2,490
1954	Apr. 18, 1954	6.71	2,380
	May 17, 1954	7.42	3,070
	May 22, 1954	6.88	2,530
	Sept. 1, 1954	6.87	2,520
	Sept. 12, 1954	8.62	4,410
1955	Nov. 4, 1954	6.90	2,550
	Dec. 15, 1954	7.06	2,710
1956	Oct. 16, 1955	10.30	6,760
	Nov. 5, 1955	7.45	3,100
	Jan. 10, 1956	10.00	6,300
	Apr. 18, 1956	-	c2,600
	Apr. 30, 1956	7.56	3,210
1957	Jan. 24, 1957	6.00	1,830
1958	Jan. 28, 1958	6.96	2,610
	Apr. 7, 1958	7.32	2,970
1959	Apr. 3, 1959	8.36	4,180
1960	Oct. 25, 1959	7.07	2,800
	Apr. 1, 1960	-	3,200
	Apr. 6, 1960	-	6,000
	Sept. 13, 1960	-	2,900

a No record; probably greater than 2,250 cfs.
b Estimated.
c Daily mean discharge.

945. North Nashua River near Leominster, Mass.

Location.--Lat 42°30'06", long 71°43'23", on right bank 1 1/3 miles upstream from Wekepeke Brook, 2½ miles southeast of Leominster, Worcester County, and 6.1 miles upstream from confluence with South Branch Nashua River.

Drainage area.--Area, 107 sq mi. Area of lakes, reservoirs, and ponds, 3.53 sq mi. Length of main stream, 22.7 miles. Average slope above gage, 40.7 ft per mile. Average tributary slope, 115 ft per mile. Average land slope, 416 ft per mile. Stream density, 1.59 miles per square mile. Mean altitude of basin, 868 ft.

Gage.--Recording. Datum of gage 270.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter and indirect measurements. Large changes in relation occur.

Remarks.--Flow regulated by mills above station. Discharge includes flow diverted from 2.1 sq mi in Squannacook River basin to North Nashua River basin for municipal supply of Fitchburg. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Jan. 16, 1936	12.42	1,030
	Mar. 12, 1936	18.70	5,500
	Mar. 18, 1936	20.53	18,300
1937	Dec. 11, 1936	9.97	1,130
	Dec. 20, 1936	12.15	2,570
	Jan. 25, 1937	9.83	1,100
	Apr. 23, 1937	10.29	1,260
1938	Nov. 14, 1937	11.19	2,800
	Nov. 29, 1937	11.50	3,050
	Dec. 7, 1937	6.84	1,040
	Jan. 25, 1938	11.95	3,460
	July 19, 1938	7.63	1,240
	July 30, 1938	10.98	2,630
	Aug. 2, 1938	8.75	1,580
	Sept.21, 1938	14.57	10,300
1939	Dec. 6, 1938	7.40	1,180
	Apr. 7, 1939	7.24	1,120
	Apr. 12, 1939	7.09	1,100
	Apr. 20, 1939	7.08	1,100
1940	Mar. 31, 1940	8.86	1,790
	Apr. 9, 1940	8.15	1,440
	Apr. 13, 1940	9.74	2,380
	Apr. 21, 1940	7.35	1,180
	May 5, 1940	9.03	1,850
	June 1, 1940	8.91	1,790
1941	Feb. 8, 1941	6.99	1,080
1942	Mar. 9, 1942	10.26	2,960
	Mar. 17, 1942	8.54	1,740
	Mar. 22, 1942	9.36	2,380
	June 15, 1942	-	(a)
	June 20, 1942	7.92	1,140
1943	Dec. 2, 1942	7.47	1,240
1944	Mar. 24, 1944	6.75	957
	Apr. 25, 1944	6.83	1,060
	June 25, 1944	12.20	8,100
	Sept.15, 1944	8.20	1,760
1945	Mar. 22, 1945	6.67	1,010
1946	Mar. 9, 1946	8.00	1,600
	May 28, 1946	7.63	1,360
1947	Mar. 15, 1947	6.91	1,080
1948	Nov. 12, 1947	7.44	1,260
	Mar. 17, 1948	7.73	1,420
	Mar. 20, 1948	8.24	1,800
	May 18, 1948	7.13	1,140
1949	Jan. 6, 1949	b7.68	1,120
1950	Mar. 23, 1950	6.88	1,070
1951	Nov. 26, 1950	8.27	4,080
	Feb. 2, 1951	5.44	1,070
	Feb. 8, 1951	8.45	4,390
	Feb. 18, 1951	7.15	2,580
	Feb. 22, 1951	5.69	1,230
	Mar. 20, 1951	5.56	1,150
	Mar. 31, 1951	6.39	1,800
	Apr. 3, 1951	6.64	2,030
1952	Nov. 3, 1951	6.75	2,140
	Nov. 7, 1951	5.45	1,160
	Jan. 27, 1952	5.71	1,320
	Apr. 6, 1952	5.26	1,050
	Apr. 28, 1952	6.05	1,560
	June 2, 1952	6.29	1,740
1953	Nov. 23, 1952	5.19	1,020
	Jan. 25, 1953	6.30	1,840
	Feb. 16, 1953	5.21	1,040
	Feb. 21, 1953	5.54	1,250
	Mar. 13, 1953	6.60	2,110
	Mar. 16, 1953	7.63	3,220
	Mar. 25, 1953	5.32	1,100
	Mar. 27, 1953	6.10	1,670
	Mar. 30, 1953	6.01	1,600
	Apr. 14, 1953	6.41	1,940
	Apr. 17, 1953	6.04	1,620
	May 9, 1953	6.08	1,650
1954	Apr. 18, 1954	6.93	2,750
	May 16, 1954	5.51	1,320
	May 22, 1954	5.72	1,500
	Aug. 31, 1954	7.19	2,460
	Sept.11, 1954	9.60	5,800
1955	Nov. 3, 1954	5.98	1,760
	Nov. 29, 1954	5.02	1,050
	Dec. 15, 1954	6.72	2,510
	Dec. 18, 1954	5.70	1,520
	Aug. 19, 1955	5.16	1,240
1956	Oct. 15, 1955	10.80	8,870
	Oct. 31, 1955	5.15	1,240
	Nov. 5, 1955	6.76	2,430
	Jan. 10, 1956	8.10	3,720
	Apr. 5, 1956	5.16	1,360
	Apr. 17, 1956	6.34	2,130
	Apr. 30, 1956	5.70	1,680
	Junr 3, 1956	4.65	1,060
1957	Jan. 23, 1957	5.77	1,730
1958	Dec. 21, 1957	4.59	1,040

a No record; probably greater than 1,000 cfs.
b Backwater from ice.

Peak stages and discharges of North Nashua River near Leominster, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 27, 1958	5.54	1,580	1960	Oct. 24, 1959	6.65	2,380
	Apr. 7, 1958	6.46	2,230		Dec. 7, 1959	4.76	1,130
	Apr. 30, 1958	4.69	1,080		Dec. 13, 1959	5.28	1,430
					Jan. 3, 1960	5.54	1,580
1959	Jan. 22, 1959	6.15	2,000		Mar. 31, 1960	-	2,600
	Mar. 6, 1959	6.09	1,950		Apr. 5, 1960	7.64	3,260
	Mar. 22, 1959	5.07	1,300		Sept.13, 1960	-	1,800
	Apr. 3, 1959	7.94	3,560				
	July 20, 1959	5.98	1,880				

950. Rocky Brook near Sterling, Mass.

Location.--Lat 42°26'57", long 71°48'10", on right bank 150 ft downstream from bridge on Beaman Road, 0.7 mile upstream from mouth, and 2¼ miles west of Sterling, Worcester County.

Drainage area.--2.28 sq mi.

Gage.--Recording. Altitude of gage is 505 ft (from topographic map).

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

Remarks.--Base for partial-duration series, 45 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Mar. 14, 1947	3.43	58	1954	Aug. 31, 1954	3.67	98
					Sept.11, 1954	4.58	395
1948	Nov. 8, 1947	3.34	45				
	Nov. 12, 1947	3.36	46	1955	Oct. 16, 1954	3.28	45
	Mar. 16, 1948	3.39	50		Nov. 3, 1954	3.31	48
	Mar. 20, 1948	3.54	73		Dec. 15, 1954	3.57	89
					Dec. 18, 1954	3.38	57
1949	Nov. 20, 1948	3.22	31		Aug. 19, 1955	3.56	87
1950	Mar. 23, 1950	3.28	36	1956	Oct. 15, 1955	3.62	98
					Oct. 31, 1955	3.28	45
1951	Nov. 26, 1950	3.40	51		Nov.4-5, 1955	3.33	51
	Feb. 7, 1951	a3.91	-		Jan. 9, 1956	3.50	76
	Feb. 18, 1951	3.45	58				
	Mar. 31, 1951	3.43	56	1957	Jan. 23, 1957	3.18	34
	Apr. 3, 1951	3.35	45				
				1958	Apr. 6, 1958	3.45	88
1952	Nov. 3, 1951	3.49	64				
	Nov. 7, 1951	3.36	46	1959	Jan. 22, 1959	3.14	49
	June 1, 1952	3.49	64		Mar. 6, 1959	3.47	90
					Apr. 2, 1959	3.81	151
1953	Jan. 24, 1953	3.37	47		July 20, 1959	4.74	470
	Feb. 2, 1953	a3.60	-				
	Mar. 13, 1953	3.45	58	1960	Dec. 7, 1959	3.03	47
	Mar. 16, 1953	3.51	68		Jan. 3, 1960	3.08	51
	Apr. 14, 1953	3.36	46		Mar. 31, 1960	a3.63	86
					Apr. 5, 1960	3.25	68
1954	Apr. 18, 1954	3.37	47		Sept.12, 1960	3.61	51

a Backwater from ice.

960. Squannacook River near West Groton, Mass.

Location.--Lat 42°38'03", long 71°39'30", on left bank 0.7 mile downstream from Trout Brook and 2.7 miles northwest of West Groton, Middlesex County.

Drainage area.--62.8 sq mi, excludes 2.10 sq mi above outlet of Fitchburg Reservoir.

Gage.--Recording. Datum of gage is 244.27 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.

Remarks.--Entire flow from 2.10 sq mi above outlet of Fitchburg Reservoir diverted for municipal supply of Fitchburg during most years. 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)
1950	Mar. 30, 1950	4.98	750	1954	Sept.12, 1954	6.99	2,470
1951	Feb. 8, 1951	5.37	972	1955	Nov. 4, 1954	5.03	776
	Feb. 19, 1951	6.03	1,440		Dec. 15, 1954	5.64	1,160
	Apr. 1, 1951	5.22	882		Dec. 19, 1954	4.99	755
	Apr. 4, 1951	5.26	906	1956	Oct. 16, 1955	8.04	4,010
1952	Nov. 4, 1951	5.71	1,210		Nov. 1, 1955	5.00	760
	Apr. 6, 1952	5.54	1,090		Nov. 5, 1955	5.76	1,250
	Apr. 29, 1952	5.43	1,010		Jan. 10, 1956	7.32	2,900
	June 2, 1952	5.70	1,200		Apr. 17, 1956	5.82	1,300
1953	Jan. 25, 1953	5.10	815	1957	Jan. 24, 1957	4.86	692
	Mar. 14, 1953	5.93	1,360	1958	Jan. 27, 1958	5.43	1,010
	Mar. 16, 1953	6.52	1,840		Apr. 7, 1958	5.91	1,370
	Mar. 27, 1953	5.12	826				
	Mar. 31, 1953	5.10	815	1959	Apr. 3, 1959	6.58	2,000
	Apr. 14, 1953	5.48	1,050	1960	Dec. 13, 1959	4.88	701
	Apr. 17, 1953	5.05	788		Apr. 1, 1960	6.33	1,750
1954	Apr. 18, 1954	5.24	894		Apr. 6, 1960	6.70	2,120
	May 17, 1954	5.56	1,100		Sept.13, 1960	5.50	1,060
	May 22, 1954	5.61	1,140				
	Sept. 1, 1954	5.18	859				

965. Nashua River at East Pepperell, Mass.

Location.--Lat 42°40'03", long 71°34'32", on right bank 200 ft downstream from powerplant of St. Regis Paper Co. at East Pepperell, Middlesex County, and 0.8 mile upstream from Nissitissit River.

Drainage area.--Total above gage, 433 sq mi; net above gage, 316 sq mi (flow diverted from 117 sq mi for use of Boston metropolitan district and city of Worcester).

Gage.--Recording. Datum of gage is 169.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above on basis of velocity-area studies.

Remarks.--Flow regulated by powerplant 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)
1936	Mar. 20, 1936	19.1	20,900	1949	Feb. 21, 1949	4.96	1,950
1937	Dec. 21, 1936	7.21	3,530	1950	Mar. 31, 1950	5.65	2,360
1938	Sept.23, 1938	14.08	10,200				
1939	Apr. 21, 1939	6.49	3,040	1951	Feb. 19, 1951	7.67	3,410
1940	Apr. 2, 1940	7.87	4,020	1952	Nov. 5, 1951	7.96	3,590
				1953	Mar. 17, 1953	8.90	4,170
1941	Feb. 9, 1941	5.27	2,260	1954	Sept.13, 1954	9.85	4,860
1942	Mar. 10, 1942	8.79	4,710	1955	Dec. 20, 1954	7.43	3,270
1943	May 23, 1943	5.56	2,340				
1944	June 26, 1944	11.86	7,100	1956	Oct. 17, 1955	11.02	5,880
1945	Mar. 23, 1945	6.21	2,600	1957	Jan. 24, 1957	5.41	2,080
				1958	Apr. 8, 1958	7.85	3,520
1946	Mar. 11, 1946	7.51	3,440	1959	Apr. 4, 1959	8.63	4,000
1947	Mar. 17, 1947	5.82	2,360	1960	Apr. 6, 1960	10.75	5,640
1948	Mar. 23, 1948	8.15	4,110				

970. Assabet River at Maynard, Mass.

Location.--Lat 42°25'55", long 71°27'01", on right bank at Maynard, Middlesex County, 150 ft upstream from bridge on State Highway 27, 1.7 miles downstream from Assabet Brook, and 7.1 miles upstream from confluence with Sudbury River.

Drainage area.--Area, 116 sq mi. Area of lakes, reservoirs, and ponds, 2.05 sq mi. Length of main stream, 24.1 miles. Average slope above gage, 5.86 ft per mile.

Gage.--Recording. Altitude of gage is 145 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by mills 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)
1942	Mar. 19, 1942	5.00	960	1952	Nov. 9, 1951	4.93	1,020
1943	Mar. 21, 1943	4.79	880	1953	Mar. 17, 1953	5.12	1,120
1944	Apr. 26, 1944	4.34	643	1954	Sept.13, 1954	6.47	2,040
1945	Mar. 7, 1945	4.88	919	1955	Aug. 20, 1955	8.94	4,250
1946	Mar. 9, 1946	5.16	1,100	1956	Jan. 11, 1956	5.48	1,380
1947	Mar. 5, 1947	4.29	656	1957	Apr. 7, 1957	4.18	696
1948	Mar. 21, 1948	5.75	1,460	1958	Jan. 28, 1958	5.38	1,320
1949	Feb. 24, 1949	3.75	482	1959	Apr. 4, 1959	5.26	1,250
1950	Mar. 25, 1950	4.43	754	1960	Apr. 1, 1960	5.35	1,300
1951	Feb. 19, 1951	4.72	920				

990. Concord River at Lowell, Mass.

Location.--Lat 42°37'40", long 71°17'55", 0.4 mile upstream from River Meadow Brook, near Lawrence Street Bridge at Lowell, Middlesex County.

Drainage area.--Total above gage, 381 sq mi (382 sq mi prior to July 1909); net above gage, 288 sq mi (flow diverted from 94.1 sq mi prior to July 1909, from 93.0 sq mi July 1909 to December 1910, and from 92.8 sq mi January 1911 to September 1916).

Gage.--Nonrecording.

Remarks.--Discharge is summation of flow over dam and through water wheels, and includes water wasted in diverting drainage from basins of Sudbury River and Lake Cochituate for use of Boston metropolitan district. Records furnished by Arthur T. Safford, hydraulic engineer, for the owners of the water power taken from Wamesit Canal. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Apr. 10, 1901	-	3,062	1910	Mar. 4, 1910	-	2,577
1902	Mar. 3, 1902	-	4,148				
1903	June 25, 1903	-	2,521	1911	Apr. 11, 1911	-	928
1904	May 2, 1904	-	2,861	1912	Mar. 18, 1912	-	2,399
1905	Mar. 29, 1905	-	2,027	1913	Mar. 31, 1913	-	1,603
				1914	Mar. 5, 1914	-	2,411
1906	Apr. 2, 1906	-	1,746	1915	Jan. 21, 1915	-	1,482
1907	Jan. 5, 1907	-	1,481				
1908	Jan. 15, 1908	-	1,479	1916	Apr. 3, 1916	-	1,829
1909	Feb. 27, 1909	-	1,809				

995. Concord River below River Meadow Brook, at Lowell, Mass.

Location.--Lat 42°38'12", long 71°18'09", on right bank 300 ft downstream from Rogers Street Bridge at Lowell, Middlesex County, 0.3 mile downstream from River Meadow Brook, and 0.8 mile upstream from mouth.

Drainage area.--Total above gage, 405 sq mi; net above gage, 312 sq mi (diversion as needed from 92.6 sq mi for use of Boston metropolitan district).

Gage.--Recording. Datum of gage is 67.41 ft above mean sea level, datum of 1929.

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

Remarks.--Water diverted above station for use of city of Lowell. Flow regulated by mills 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)
1937	Dec. 23, 1936	6.75	1,900	1949	Feb. 28, 1949	6.22	1,320
1938	July 29, 1938	8.11	3,790	1950	Mar. 29, 1950	6.59	1,710
1939	Apr. 4, 1939	7.07	2,380				
1940	Apr. 4, 1940	7.20	2,570	1951	Apr. 7, 1951	6.92	2,070
				1952	Nov. 11, 1951	7.10	2,290
1941	Feb. 12, 1941	5.98	1,190	1953	Apr. 19, 1953	7.68	2,860
1942	Mar. 21, 1942	6.91	2,320	1954	Sept.15, 1954	8.05	3,340
1943	Mar. 22, 1943	6.74	2,020	1955	Aug. 23, 1955	8.97	4,540
1944	Apr. 29, 1944	6.28	1,330				
1945	Mar. 8, 1945	7.06	2,320	1956	Apr.18,19,1956	7.71	2,970
				1957	Apr. 15, 1957	6.49	1,620
1946	Mar. 11, 1946	7.36	2,600	1958	Jan. 30, 1958	7.89	3,120
1947	Mar. 8, 1947	6.55	1,660	1959	Apr. 6, 1959	7.01	2,050
1948	Mar. 24, 1948	7.94	3,200	1960	Apr. 8, 1960	7.41	2,510

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1000. Merrimack River below Concord River, at Lowell, Mass.

Location.--Lat 42°38'45", long 71°17'56", on right bank 1,100 ft downstream from Concord River, at Lowell, Middlesex County.

Drainage area.--Total above gage, 4,635 sq mi; net above gage, 4,425 sq mi (diversions as needed from 210 sq mi for use of Boston metropolitan district and city of Worcester).

Gage.--Recording. Datum of gage is 5.18 ft above mean sea level, datum of 1929. At Boott Mills 1,800 ft upstream and 700 ft above mouth of Concord River, in same gage pool and at same datum prior to Mar. 7, 1934.

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

Remarks.--Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. Gage-height record prior to Mar. 7, 1934, furnished by Proprietors of Locks and Canals, Lowell, Mass. 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	Apr. 23, 1852	60.6	a108,000	1942	June 17, 1942	48.13	27,000
				1943	May 14, 1943	48.00	27,400
1924	Apr. 8, 1924	53.40	55,700	1944	June 26, 1944	51.77	49,200
1925	Mar. 31, 1925	53.3	55,000	1945	Mar. 22, 1945	50.14	39,500
1926	Apr. 27, 1926	50.6	39,300	1946	Dec. 9, 1945	49.77	36,100
1927	Mar. 17, 1927	49.7	34,300	1947	Apr. 14, 1947	48.89	31,300
1928	Nov. 5, 1927	56.5	76,800	1948	Mar. 23, 1948	52.28	51,700
1929	May 5, 1929	50.2	37,000	1949	Jan. 8, 1949	47.65	24,600
1930	Apr. 9, 1930	48.7	29,000	1950	Apr. 22, 1950	49.53	34,800
1931	June 11, 1931	50.0	35,900	1951	Apr. 5, 1951	52.63	53,900
1932	Apr. 14, 1932	52.6	50,700	1952	Apr. 7, 1952	52.59	53,700
1933	Apr. 20, 1933	56.0	72,600	1953	Mar. 28, 1953	52.93	56,000
1934	Apr. 14, 1934	54.02	59,600	1954	May 11, 1954	51.70	47,900
1935	Jan. 11, 1935	52.40	49,500	1955	Dec. 20, 1954	48.27	27,900
1936	Mar. 20, 1936	68.4	173,000	1956	May 1, 1956	b51.73	46,900
1937	May 16,17,1937	50.7	39,800	1957	Jan. 25, 1957	46.16	17,200
1938	Sept.23, 1938	60.57	121,100	1958	Apr. 25, 1958	49.82	36,400
1939	Apr. 21, 1939	51.56	48,600	1959	Apr. 5, 1959	51.62	47,400
1940	Apr. 14, 1940	52.93	55,800	1960	Apr. 6, 1960	56.00	79,000
1941	Feb. 10, 1941	46.66	19,900				

a Maximum known prior to 1936.
b Occurred Jan. 10, 1956; backwater from ice.

1005. Merrimack River at Lawrence, Mass.

Location.--Lat 42°42'20", long 71°09'10", at dam of Essex Co. in Lawrence, Essex County.

Drainage area.--Total above dam, 4,672 sq mi; net above dam 4,462 sq mi (flow diverted from 210 sq mi for use of Boston metropolitan district and city of Worcester). Prior to Jan. 1, 1881, the net drainage area was 4,576 sq mi; Jan. 1, 1881, to Mar. 6, 1898, 4,579 sq mi; Mar. 7, 1898, to July 1, 1937, 4,461 sq mi. Prior to July 1909, total area was 4,673 sq mi.

Remarks.--Discharge determined by computation of flow over dam and through wheels of gates. Records furnished by Essex Co. Flow regulated by powerplants, and by Squam, Little Squam, Newfound, Merrymeeting, Wentworth, Winnipesaukee, Winnisquam, and other lakes and Blackwater Reservoir (since November 1941), Franklin Falls Reservoir (since March 1942), and Edward MacDowell Reservoir (since March 1950). 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	Apr. 23, 1852	44.12	a108,000	1882	Mar. 4, 1882	-	38,800
				1883	Apr. 15, 1883	-	36,400
1880	Apr. 6, 1880	-	29,200	1884	Mar. 29, 1884	-	60,200
				1885	Apr. 24, 1885	-	25,600
1881	Mar. 12, 1881	-	31,400				

a Maximum known prior to 1936.

Peak stages and discharges of Merrimack River at Lawrence, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1886	Feb. 15, 1886	-	59,400	1920	Mar. 29, 1920	-	59,500
1887	Apr. 13, 1887	-	51,200				
1888	May 1, 1888	-	48,700	1921	Dec. 16, 1920	-	47,900
1889	Dec. 19, 1888	-	43,700	1922	Apr. 13, 1922	-	47,400
1890	Mar. 24, 1890	-	38,300	1923	May 1, 1923	-	66,200
				1924	Apr. 9, 1924	-	55,200
1891	Mar. 25, 1891	-	52,100	1925	Mar. 31, 1925	-	58,200
1892	May 24, 1892	-	32,100				
1893	May 6, 1893	-	57,700	1926	Apr. 27, 1926	-	38,800
1894	Mar. 9, 1894	-	29,200	1927	Mar. 17, 1927	-	34,800
1895	Apr. 16, 1895	-	89,900	1928	Nov. 6, 1927	-	78,900
				1929	May 5, 1929	-	36,800
1896	Mar. 3, 1896	-	105,000	1930	Apr. 9, 1930	-	28,700
1897	July 16, 1897	-	52,800				
1898	Mar. 15, 1898	-	44,400	1931	June 11, 1931	-	35,600
1899	Apr. 17, 1899	-	47,800	1932	Apr. 14, 1932	-	50,900
1900	Feb. 15, 1900	-	63,500	1933	Apr. 20, 1933	-	76,200
				1934	Apr. 14, 1934	-	60,800
1901	Apr. 9, 1901	-	84,500	1935	Jan. 11, 1935	-	46,500
1902	Mar. 4, 1902	-	73,100				
1903	Mar. 13, 1903	-	53,600	1936	Mar.20,21,1936	-	174,000
1904	May 1, 1904	-	60,600	1937	May 17, 1937	-	40,500
1905	Mar. 30, 1905	-	51,800	1938	Sept.23, 1938	-	116,000
				1939	Apr. 21, 1939	-	48,400
1906	May 30, 1906	-	48,700	1940	Apr. 14, 1940	-	56,800
1907	Apr. 1, 1907	-	31,300				
1908	Nov. 8, 1907	-	42,000	1941	Feb. 10, 1941	-	19,300
1909	Apr. 17, 1909	-	46,500	1942	Mar. 11, 1942	-	28,300
1910	Mar. 3, 1910	-	34,500	1943	May 14, 1943	-	28,200
				1944	June 26, 1944	-	49,100
1911	Mar. 31, 1911	-	25,200	1945	Mar. 23, 1945	-	40,800
1912	Apr. 9, 1912	-	35,400				
1913	Mar. 29, 1913	-	49,100	1946	Dec. 9, 1945	-	37,800
1914	Apr. 22, 1914	-	42,700	1947	Apr. 14, 1947	-	31,200
1915	Feb. 27, 1915	-	49,100	1948	Mar. 24, 1948	-	54,200
				1949	Jan. 8, 1949	-	25,500
1916	May 19, 1916	-	42,800	1950	Apr. 23, 1950	-	35,200
1917	Mar. 29, 1917	-	38,500				
1918	Apr. 4, 1918	-	30,800	1951	Apr. 5, 1951	-	55,400
1919	Mar. 30, 1919	-	48,700				

PARKER RIVER BASIN

1010. Parker River at Byfield, Mass.

Location.--Lat 42°45'10", long 70°56'46", on left bank 1,400 ft downstream from dam, half a mile south of Byfield, Essex County, 0.7 mile upstream from Wheeler Brook, and 5½ miles southwest of Newburyport.

Drainage area.--Area, 21.6 sq mi. Area of lakes, reservoirs, and ponds, 0.58 sq mi. Length of main stream, 10.9 miles. Average slope above gage, 6.23 ft per mile.

Gage.--Recording. Datum of gage is 23.46 ft above mean sea level, datum of 1929 (levels by Massachusetts Department of Public Works).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

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)
1946	Mar. 10, 1946	4.30	293	1954	May 11, 1954	4.16	246
1947	Mar. 4, 1947	3.27	154	1955	Dec. 20, 1954	3.36	147
1948	Mar. 23, 1948	4.81	352				
1949	Feb. 25, 1949	2.86	100	1956	Jan. 14, 1956	4.00	247
1950	Mar. 25, 1950	3.84	220	1957	Jan. 25, 1957	2.87	99
				1958	Jan. 27, 1958	5.49	479
1951	Feb. 19, 1951	3.54	184	1959	Mar. 7, 1959	3.77	217
1952	Mar. 15, 1952	3.64	196	1960	Apr. 6, 1960	3.63	196
1953	Mar. 17, 1953	4.35	260				

1015. Ipswich River at South Middleton, Mass.

Location.--Lat 42°34'10", long 71°01'39", on right bank 700 ft downstream from Boston Street Bridge at South Middleton, Essex County, 1.3 miles downstream from Wills Brook, and 2 miles south of Middleton.

Drainage area.--Area, 43.4 sq mi. Area of lakes, reservoirs, and ponds, 0.43 sq mi. Length of main stream, 11.5 miles. Average slope above gage, 5.10 ft per mile.

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

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Water diverted above station for municipal supplies of Reading, Lynn, and Peabody. 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 24, 1938	5.72	608	1950	Mar. 24, 1950	3.905	329
1939	Apr. 3, 1939	4.42	400				
1940	Apr. 2, 1940	4.26	387	1951	Feb. 19, 1951	3.855	324
				1952	Mar. 15, 1952	4.37	392
1941	Mar. 30, 1941	2.45	194	1953	Mar. 31, 1953	4.61	426
1942	Mar. 19, 1942	3.93	333	1954	May 16-17,1954	5.265	530
1943	May 23, 1943	3.48	280	1955	Dec. 19, 1954	4.415	302
1944	Mar. 28, 1944	2.98	224				
1945	Mar. 7, 1945	4.04	347	1956	Jan. 13, 1956	5.68	497
				1957	Apr. 10, 1957	3.615	232
1946	Mar. 9, 1946	5.04	490	1958	Jan. 27, 1958	6.49	682
1947	Mar. 6, 1947	3.635	297	1959	Mar. 7, 1959	4.715	354
1948	Mar. 21, 1948	5.895	646	1960	Apr. 6, 1960	4.58	334
1949	Feb.25,26,1949	2.36	171				

1020. Ipswich River near Ipswich, Mass.

Location.--Lat 42°39'35", long 70°53'39", on left bank 200 ft downstream from Willowdale Dam, 1½ miles downstream from Howlett Brook, and 4 miles upstream from Ipswich, Essex County.

Drainage area.--Area, 124 sq mi. Area of lakes, reservoirs, and ponds, 1.69 sq mi. Length of main stream, 27.2 miles. Average slope above gage, 2.50 ft per mile. Average tributary slope, 15.9 ft per mile. Average land slope, 194 ft per mile. Stream density, 1.23 miles per square mile. Mean altitude of basin, 126 ft.

Gage.--Recording. Datum of gage is 20.63 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Diversions above station for municipal supplies of Reading, Lynn, Peabody, Danvers, Salem, and Beverly. 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)
1931	Mar. 31, 1931	5.13	948	1946	Mar. 10, 1946	5.88	1,420
1932	Apr. 1, 1932	4.95	792	1947	May 6, 1947	4.84	688
1933	Apr. 20, 1933	6.00	1,540	1948	Mar. 23, 1948	6.62	1,810
1934	Mar. 7, 1934	6.06	1,580	1949	Mar. 2, 1949	4.55	500
1935	Apr. 15, 1935	5.61	1,240	1950	Mar. 26, 1950	5.17	919
1936	Mar. 15, 1936	7.70	2,610	1951	Feb. 21, 1951	5.05	835
1937	Dec. 23, 1936	-	a590	1952	Mar. 14, 1952	5.38	1,070
1938	July 26, 1938	6.29	1,700	1953	Apr. 1, 1953	5.74	1,300
1939	Apr. 4, 1939	5.47	1,120	1954	May 11,12,1954	5.91	1,410
1940	Apr. 2, 1940	5.56	1,180	1955	Dec.23,25,1954	4.85	682
1941	Mar.29,30,1941	4.53	489	1956	Jan. 13, 1956	6.00	1,530
1942	Mar. 20, 1942	5.11	977	1957	Jan.26-27,1957	4.51	496
1943	Mar.21,22,1943	4.90	710	1958	Jan. 29, 1958	6.88	1,970
1944	Mar.27,28,1944	4.56	506	1959	Mar. 8, 1959	5.19	934
1945	Mar. 8, 1945	5.31	1,020	1960	Apr. 6, 1960	5.22	953

a Estimated.

1025. Aberjona River at Winchester, Mass.

Location.--Lat 42°26'50", long 71°08'22", on left bank at Winchester, Middlesex County, 0.5 mile upstream from head of Mystic Lakes.

Drainage area.--23.3 sq mi (excludes 1.4 sq mi drained by Winchester Reservoirs).

Gage.--Recording. Datum of gage is at mean sea level, datum of 1929.

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

Remarks.--Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester. Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 15, 1940	12.31	308	1951	Apr. 3, 1951	11.88	171
	Mar. 20, 1940	11.87	170				
	Mar. 31, 1940	12.02	211	1952	Mar. 12, 1952	12.06	221
	Apr. 22, 1940	11.90	178				
				1953	Mar. 16, 1953	12.065	221
1941	Feb. 8, 1941	11.99	202		Mar. 31, 1953	12.225	242
					Apr. 17, 1953	12.12	214
1942	Feb. 7, 1942	12.02	209				
	Mar. 17,18,1942	12.15	250	1954	Apr. 18, 1954	11.98	179
					May 9, 1954	12.42	300
1943	Dec. 31, 1942	12.10	233		May 16, 1954	12.74	412
	Mar. 7, 1943	a11.94	101		May 21, 1954	12.20	236
					Sept.12, 1954	13.66	482
1944	Sept.15, 1944	11.87	168				
				1955	Aug. 19, 1955	13.64	835
1945	Nov. 30, 1944	11.91	179				
	Mar. 1, 1945	b13.05	130	1956	Oct. 17, 1955	13.225	313
	Mar. 7, 1945	12.065	215		Nov. 5-6,1955	13.295	326
					Nov. 11, 1955	12.26	176
1946	Dec. 7, 1945	a12.38	310		Jan. 9, 1956	13.60	378
	Feb. 14, 1946	11.98	197		Apr. 6, 1956	12.14	218
	Mar. 4,5,1946	12.17	256				
				1957	Jan. 23, 1957	a12.08	-
1947	Mar. 3, 1947	12.31	306		Jan. 24, 1957	11.95	172
1948	Nov. 12, 1947	11.90	176	1958	Jan. 22, 1958	12.39	291
	Mar. 17, 1948	12.40	341		Jan. 26, 1958	a12.91	390
	Mar. 20, 1948	12.44	358		Feb. 28, 1958	-	315
1949	Apr. 6, 1949	11.61	112	1959	Mar. 6, 1959	11.96	170
1950	Mar. 23, 1950	12.135	246	1960	Jan. 3, 1960	12.02	185
					Feb. 20, 1960	12.05	194
1951	Feb. 7, 1951	12.09	230		Sept.12, 1960	12.02	185
	Feb. 19, 1951	12.105	233				

a Backwater from ice.
b Backwater from construction.

CHARLES RIVER BASIN

1035. Charles River at Charles River Village, Mass.

Location.--Lat 42°15'23", long 71°15'42", on right bank 0.25 mile downstream from highway bridge at Charles River Village, Norfolk County, 0.8 mile downstream from Noanet Brook, and 1.3 miles northeast of Dover.

Drainage area.--Area, 184 sq mi. Area of lakes, reservoirs, and ponds, 3.06 sq mi. Length of main stream, 41.2 miles. Average slope above gage, 4.47 ft per mile. Average tributary slope, 22.6 ft per mile. Average land slope, 236 ft per mile. Stream density, 1.27 miles per square mile. Mean altitude of basin, 232 ft.

Gage.--Recording. Datum of gage is 89.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur frequently.

Remarks.--Diversion above station for municipal supply of Wellesley and Needham. Occasional diversion since 1951 from Sudbury River basin to Charles River. Only annual peaks are shown.

Peak stages and discharges of Charles River at Charles River Village, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	-	3,170	1949	Feb. 23, 1949	2.60	616
				1950	Mar. 28, 1950	3.32	857
1938	July 27, 1938	9.00	3,110				
1939	Apr. 7, 1939	4.40	1,000	1951	Apr. 7, 1951	3.67	980
1940	Apr. 4, 1940	4.47	1,200	1952	Mar. 15, 1952	4.77	1,310
				1953	Apr. 2, 1953	5.35	1,420
1941	Feb. 12, 1941	a3.06	685	1954	Sept.17, 1954	5.39	1,240
1942	Mar. 22, 1942	4.40	1,140	1955	Aug. 23, 1955	9.24	3,220
1943	Mar.11,12,1943	3.50	861				
1944	Apr. 29, 1944	3.39	795	1956	Apr. 11, 1956	b5.61	1,480
1945	Mar. 8, 1945	5.68	1,280	1957	Apr. 11, 1957	3.68	924
				1958	Jan. 30, 1958	6.09	1,770
1946	Dec. 11, 1945	4.96	1,240	1959	Mar. 9, 1959	3.87	981
1947	Mar. 7, 1947	3.22	765	1960	Apr. 8, 1960	4.26	1,100
1948	Mar. 22, 1948	6.44	2,060				

a Backwater from ice.
b Occurred Nov. 8, 9, 1955.

1040. Mother Brook at Dedham, Mass.

Location.--Lat 42°15'19", long 71°09'58", on right bank at upstream side of East Street Bridge, at Dedham, Norfolk County, 0.4 mile downstream from point of diversion from Charles River.

Drainage area.--Indeterminate. Stream diverts water from Charles River.

Gage.--Recording prior to Dec. 9, 1931; nonrecording thereafter. Datum of gage is 0.03 ft below mean sea level, datum of 1929.

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

Remarks.--Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park. 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)
1932	Apr. 3, 1932	18.05	238	1947	Mar. 10, 1947	18.11	216
1933	Apr.19-20,1933	19.49	451	1948	Mar. 24, 1948	20.57	626
1934	Mar.10,11,1934	19.09	385	1949	Mar. 1, 1949	17.75	184
1935	Apr. 17, 1935	19.29	467	1950	Mar. 30, 1950	18.36	257
1936	Mar. 19, 1936	21.37	900	1951	Apr. 8, 9, 1951	18.57	247
1937	Dec.21,22,1936	18.87	388	1952	Mar. 17, 1952	19.33	374
1938	July 28, 1938	21.84	909	1953	Apr. 20, 1953	89.87	474
1939	Apr. 7, 1939	18.88	327	1954	Sept.18, 1954	89.77	354
1940	Apr. 25, 1940	18.94	362	1955	Aug. 24, 1955	92.90	970
1941	Feb. 16, 1941	17.79	222	1956	Nov. 11, 1955	90.20	480
1942	Mar. 23, 1942	19.10	368	1957	Apr. 13, 1957	88.62	285
1943	Mar. 13, 1943	18.41	247	1958	Jan. 30, 1958	90.38	616
1944	Apr. 30, 1944	18.23	229	1959	June 20, 1959	87.67	290
1945	Mar. 9, 1945	19.54	451	1960	Feb. 16, 1960	86.32	293
1946	Dec. 12, 1945	19.31	376				

Note.--Add 70.00 ft to gage heights prior to 1953.

1045. Charles River at Waltham, Mass.

Location.--Lat 42°22'20", long 71°14'03", on right bank 800 ft downstream from Moody Street Bridge in Waltham, Middlesex County, and a third of a mile upstream from Beaver Brook.

Drainage area.--227 sq mi, excludes 23.6 sq mi drained by Stony Brook from which flow is diverted for municipal supply of Cambridge.

Gage.--Recording. Datum of gage is 20.02 ft above mean sea level, datum of 1929.

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

Remarks.--Flow affected by diversions from Lake Cochituate and at times since 1951 from Sudbury River basin to Charles River, diversion to Mother Brook, and diversions for municipal supply of Wellesley, Needham, Dedham, Brookline, and Newton, all 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)
1932	Apr. 1, 1932	2.82	690	1947	May 7, 1947	2.62	692
1933	Apr. 19, 1933	3.92	1,520	1948	Mar. 22, 1948	4.16	1,730
1934	Mar. 10, 1934	3.24	1,020	1949	Feb. 20, 1949	2.46	575
1935	Apr. 14, 1935	3.75	1,370	1950	Mar. 28, 1950	2.82	869
1936	Mar. 19, 1936	4.79	2,540	1951	Apr. 7, 1951	3.10	933
1937	Dec. 20, 1936	3.26	1,020	1952	Mar. 17, 1952	3.49	1,250
1938	July 26,29,1938	4.56	2,180	1953	Apr. 3, 1953	3.67	1,360
1939	Apr.3, 7, 1939	3.26	1,020	1954	Sept.22, 1954	4.44	1,550
1940	Apr. 22, 1940	3.83	1,600	1955	Apr. 19, 1955	5.35	2,490
1941	Feb. 15, 1941	2.40	555	1956	Nov. 11, 1955	4.76	1,990
1942	Mar. 23, 1942	3.80	1,470	1957	Apr. 11, 1957	3.01	957
1943	Mar. 12, 1943	3.34	1,180	1958	Jan. 26, 1958	4.42	1,940
1944	Jan. 14, 1944	3.12	1,000	1959	Mar. 6, 1959	4.04	1,460
1945	Mar. 12, 1945	3.47	1,240	1960	Apr. 4, 1960	4.33	1,510
1946	Jan. 14, 1946	3.78	1,360				

NEPONSET RIVER BASIN

1050. Neponset River at Norwood, Mass.

Location.--Lat 42°10'39", long 71°12'05", on left bank 200 ft upstream from Pleasant Street Bridge, 200 ft downstream from New York, New Haven and Hartford Railroad bridge, 0.45 mile downstream from Hawes Brook, and 0.5 mile south of Norwood, Norfolk County.

Drainage area.--Area, 35.2 sq mi. Area of lakes, reservoirs, and ponds, 1.19 sq mi. Length of main stream, 11.0 miles. Average slope above gage, 23.8 ft per mile. Average tributary slope, 35.3 ft per mile. Average land slope, 176 ft per mile. Stream density, 1.27 miles per square mile. Mean altitude of basin, 213 ft.

Gage.--Recording. Datum of gage is 44.04 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements. Large changes in relation occur.

Remarks.--Flow regulated by mills and reservoirs above station. Several diversions above station for municipal and industrial use. 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 24, 1938	11.05	-	1944	Sept.15, 1944	9.23	200
				1945	Mar. 7, 1945	9.52	254
1940	Apr. 22, 1940	9.55	226				
				1946	Dec. 7, 1945	10.38	414
1941	Feb. 8, 1941	9.86	240	1947	Mar. 3, 1947	9.23	212
1942	Mar. 17, 1942	9.80	304	1948	Mar. 21, 1948	10.30	398
1943	May 15, 1943	9.35	230	1949	Apr. 8, 1949	8.68	165

Peak stages and discharges of Neponset River at Norwood, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Mar. 23, 1950	9.04	176	1956	Nov. 5, 1955	11.32	486
				1957	Jan. 23, 1957	9.55	247
1951	Apr. 3, 1951	9.64	255	1958	Jan. 27, 1958	10.69	384
1952	Mar. 12, 1952	10.08	336	1959	Mar. 7, 1959	10.25	321
1953	Mar. 30, 1953	10.14	398	1960	Feb. 20, 1960	9.66	247
1954	May 9, 1954	10.90	430				
1955	Aug. 19, 1955	14.65	1,490				

1055. East Branch Neponset River at Canton, Mass.

Location.--Lat 42°09'16", long 70°08'47", on right bank 100 ft downstream from Washington Street Bridge at Canton, Norfolk County, 200 ft downstream from Forge Pond Dam, and 900 ft downstream from Massapoag Brook.

Drainage area.--26.7 sq mi.

Gage.--Recording. Altitude of gage is 85 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 690 cfs and extended above by logarithmic plotting.

Remarks.--Regulation by ponds above station; peaks are 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)
1953	Mar. 31, 1953	3.98	374	1957	Jan. 23, 1957	3.40	292
1954	Apr. 18, 1954	4.13	398	1958	Jan. 26, 1958	3.77	360
1955	Aug. 19, 1955	8.18	1,790	1959	Mar. 7, 1959	3.44	293
				1960	Feb. 19, 1960	3.04	221
1956	Nov. 5, 1955	4.77	598				

WESTPORT RIVER BASIN

1060. Adamsville Brook at Adamsville, R.I.

Location.--Lat 41°33'30", long 71°07'47", on right bank 0.2 mile upstream from milldam at Adamsville, Newport County, and 0.7 mile upstream from mouth.

Drainage area.--Area, 8.6 sq mi. Area of lakes, reservoirs, and ponds, 0.01 sq mi. Length of main stream, 6.0 miles. Average slope above gage, 32.2 ft per mile.

Gage.--Recording. Altitude of gage is 15 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--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)
1941	Nov. 15 or 16, 1940	4.23	128	1945	Feb. 28, 1945	4.75	136
	Jan. 17, 1941	4.35	136	1946	Nov. 30, 1945	4.96	165
	Feb. 8, 1941	4.60	154		Dec. 7, 1945	5.09	180
	June 6, 1941	4.18	125		Jan. 26, 1946	4.70	129
					Aug. 8, 1946	5.72	241
1942	Feb. 8, 1942	4.08	117				
	Feb. 17, 1942	4.09	117	1947	Mar. 3, 1947	4.71	130
1943	Dec. 31, 1942	4.70	119	1948	June 1, 1948	4.795	146
1944	Apr. 25, 1944	4.72	121	1949	Apr. 7, 1949	4.355	85
1945	Nov. 30, 1944	5.13	201	1950	Mar. 24, 1950	4.51	103
	Feb. 23, 1945	5.05	186				

Peak stages and discharges of Adamsville Brook at Adamsville, R.I.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 4, 1951	4.395	90	1956	Nov. 5, 1955	5.00	129
1952	Mar. 12, 1952	4.89	157	1957	Jan. 24, 1957	5.20	143
					Apr. 6, 1957	5.76	182
1953	Feb. 16, 1953	4.94	163				
	Mar. 16, 1953	5.705	239	1958	Jan. 16, 1958	5.265	147
	Apr. 8, 1953	4.985	168		Mar. 1, 1958	5.80	185
	Apr. 14, 1953	4.655	123		Apr. 7, 1958	6.265	217
					Apr. 30, 1958	4.92	123
1954	Nov. 26, 1953	4.80	136		May 8, 1958	4.75	110
	Dec. 15, 1953	4.77	132				
	May 9, 1954	5.18	184	1959	Feb. 20, 1959	a5.52	-
	Sept.12, 1954	5.80	269		Mar. 7, 1959	4.86	119
					July 15, 1959	4.68	104
1955	Aug. 20, 1955	4.46	87				
				1960	Apr. 5, 1960	6.145	168
1956	Oct. 17, 1955	5.04	132		Sept.20, 1960	7.135	273

a Backwater from ice.

TAUNTON RIVER BASIN

1075. Taunton River at Titicut, near Bridgewater, Mass.

Location.--Lat 41°56'50", long 70°56'13", at Summer Street Bridge between Bridgewater and Middleboro, Plymouth County, 0.9 mile upstream from confluence with Nemasket River.

Drainage area.--185 sq mi.

Gage.--Nonrecording. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,400 cfs and extended above on basis of velocity-area study. Relation stable.

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)
1920	Mar. 19, 1920	15.5	5,150	1923	Mar. 18, 1923	11.15	1,980
				1924	Oct. 24, 1923	8.50	1,240
1921	July 12, 1921	14.7	3,520	1925	Feb. 13, 1925	9.13	1,420
1922	Aug. 29, 1922	11.4	2,070				

1080. Taunton River at State Farm, Mass.

Location.--Lat 41°56'05", long 70°57'18", on right bank at State Farm, Plymouth County, 1 mile upstream from Saw Mill Brook and 3½ miles northwest of Middleboro.

Drainage area.--260 sq mi.

Gage.--Nonrecording prior to June 9, 1934; recording thereafter. At datum 0.41 ft higher prior to Oct. 1, 1931. Datum of gage is 9.61 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur. Shifts in the relation have also occurred due to changes in location of gages as well as from other causes.

Remarks.--Water diverted above station from Nemasket River for municipal supply of Taunton and New Bedford; water diverted from Silver Lake by pumpage into Taunton River basin above station for municipal supply of Brockton and several towns. Flow regulated by reservoirs and small powerplants above station. Only annual peaks are shown.

Peak stages and discharges of Taunton River at State Farm, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Feb. 14, 1930	3.18	1,580	1946	Dec. 8, 1945	11.57	3,080
				1947	May 5, 1947	6.78	1,550
1931	June 12, 1931	1.12	2,430	1948	Mar. 18-19, 1948	9.57	2,480
1932	Mar. 30, 1932	7.69	1,920	1949	Oct. 27, 1948	7.28	1,740
1933	Apr. 15, 1933	10.50	2,990	1950	Mar. 25, 1950	6.05	1,250
1934	Mar. 7, 1934	a9.44	2,460				
1935	Apr. 14, 1935	10.72	3,060	1951	Feb.10, Apr.4, 1951	6.85	1,580
1936	Mar. 14, 1936	10.64	3,020	1952	Mar. 13, 1952	9.50	2,460
1937	Dec. 13, 1936	9.31	2,590	1953	Apr. 1, 1953	9.02	2,320
1938	July 25, 1938	8.95	2,480	1954	May 18, 1954	10.42	3,040
1939	Apr. 21, 1939	7.92	2,040	1955	Aug. 21, 1955	13.02	4,010
1940	Apr. 14, 1940	9.38	2,650				
				1956	Nov. 7, 1955	9.97	2,860
1941	Feb. 9, 1941	8.00	2,080	1957	Apr. 7, 1957	7.70	1,950
1942	Mar. 18, 1942	8.05	2,080	1958	Apr. 13, 1958	7.87	2,020
1943	Mar. 8, 1943	6.78	1,540	1959	Mar. 8, 1959	7.10	1,760
1944	Apr. 26, 1944	6.56	1,430	1960	Apr. 6, 1960	8.29	2,240
1945	Mar. 7, 1945	8.33	2,230				

a Backwater from ice.

1090. Wading River near Norton, Mass.

Location.--Lat 41°56'51", long 71°10'38", on left bank 200 ft downstream from bridge on State Highway 140, 0.9 mile upstream from confluence with Rumford River, and 1½ miles southeast of Norton, Bristol County.

Drainage area.--Area, 42.4 sq mi. Area of lakes, reservoirs, and ponds, 0.26 sq mi. Length of main stream, 16.3 miles. Average slope above gage, 10.7 ft per mile. Average tributary slope, 24.0 ft per mile. Average land slope, 141 ft per mile. Stream density, 1.20 miles per square mile. Mean altitude of basin, 195 ft.

Gage.--Nonrecording prior to May 5, 1933; recording thereafter. At datum 0.62 ft higher prior to Oct. 1, 1930. Datum of gage is 49.63 ft above mean sea level, datum of 1929.

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

Remarks.--Flow regulated by powerplants and ponds above station. Diversion above station for municipal supply of Attleboro. Base for partial-duration series, 280 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Mar. 8, 1926	6.95	350	1936	Apr. 7, 1936	7.41	348
1927	Sept. 2, 1927	6.78	322	1937	Dec. 12, 1936	7.85	435
					Dec. 21, 1936	8.04	487
1928	Dec. 9, 1927	6.53	270		Jan. 25, 1937	7.37	312
					Mar. 17, 1937	7.30	301
1929	Mar. 7, 1929	7.50	505		Apr. 23, 1937	7.20	280
1930	Feb. 14, 1930	6.90	358	1938	Nov. 30, 1937	7.78	422
					Dec. 8, 1937	7.82	432
1931	June 11, 1931	9.50	843		Jan. 26, 1938	7.86	441
					June 29, 1938	8.56	522
1932	Mar. 29, 1932	8.10	503		July 25, 1938	9.52	714
1933	Apr. 13, 1933	8.70	646	1939	Dec.6 or 7,1938	7.51	325
	Sept.17, 1933	7.48	365		Feb. 16, 1939	7.38	307
					Mar. 17, 1939	7.44	316
1934	Jan. 8, 1934	7.70	420		Mar. 31, 1939	7.27	280
	Mar. 6, 1934	8.03	506		Apr. 7, 1939	7.70	361
	Apr. 2, 1934	7.48	374		Apr. 20, 1939	7.61	343
1935	Jan. 11, 1935	7.73	432	1940	Mar. 16, 1940	8.30	472
	Apr. 14, 1935	7.93	480		Apr. 1, 1940	7.42	307
					Apr. 9, 1940	7.63	352
1936	Jan. 16, 1936	7.47	335		Apr. 13, 1940	8.13	444
	Jan. 21, 1936	7.42	323		Apr. 22, 1940	7.76	370
	Mar. 13, 1936	10.01	1,030				
	Mar. 19, 1936	8.77	674	1941	Feb. 8, 1941	7.61	339

Peak stages and discharges of Wading River near Norton, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 10, 1942	8.28	472	1953	Apr. 15, 1953	8.30	450
	Mar. 18, 1942	8.00	415		Apr. 17, 1953	8.31	432
	Mar. 22, 1942	7.89	396	1954	Nov. 26, 1953	7.48	293
1943	Dec. 3, 1942	7.37	284		Dec. 7, 1953	7.82	355
	Dec. 31, 1942	8.05	406		Dec. 15, 1953	7.73	338
	Mar. 8, 1943	7.43	311		Apr. 18, 1954	8.16	422
1944	Apr. 26, 1944	7.62	319		May 10, 1954	9.09	698
					May 17, 1954	7.62	343
1945	Dec. 1, 1944	8.08	391		May 21, 1954	7.36	290
	Jan. 2, 1945	7.60	309		Sept.12, 1954	7.99	342
	Mar. 6, 1945	8.08	391	1955	Dec. 20, 1954	7.79	309
1946	Nov. 30, 1945	8.14	402		Feb. 12, 1955	7.64	286
	Dec. 8, 1945	9.53	682		Mar. 23, 1955	7.68	292
	Dec. 26, 1945	7.77	338		Aug. 20, 1955	10.98	1,170
	Mar. 4, 1946	7.76	336	1956	Oct. 17, 1955	8.57	457
					Nov. 6, 1955	9.25	616
1947	May 4, 1947	7.70	325		Jan. 11, 1956	8.01	346
					Feb. 13, 1956	7.66	289
1948	Mar. 17, 1948	9.06	619		Apr. 9, 1956	8.07	357
	Apr. 2, 1948	7.49	293				
	May 19, 1948	7.49	293	1957	Apr. 7, 1957	7.81	313
	May 31, 1948	7.86	365				
				1958	Jan. 16, 1958	7.80	337
1949	Apr. 7, 1949	6.96	200		Jan. 23, 1958	7.97	384
					Jan. 26, 1958	8.63	521
1950	Mar. 24, 1950	7.29	256		Mar. 1, 1958	7.98	386
					Mar. 24, 1958	7.62	320
1951	Apr. 4, 1951	7.78	344		Apr. 7, 1958	8.01	392
					Apr. 13, 1958	7.85	361
1952	Dec. 22, 1951	7.65	320		Apr. 30, 1958	7.50	298
	Mar. 12, 1952	8.32	454		May 8, 1958	7.87	365
1953	Feb. 16, 1953	8.08	406	1959	Mar. 7, 1959	8.03	380
	Mar. 16, 1953	8.47	486				
	Mar. 25, 1953	7.62	318	1960	Feb. 20, 1960	7.64	305
	Mar. 31, 1953	8.24	438		Feb. 27, 1960	7.52	284
	Apr. 9, 1953	8.11	412		Apr. 6, 1960	7.90	354

PROVIDENCE RIVER BASIN

1095. Kettle Brook at Worcester, Mass.
(Published as "Blackstone River at Worcester" prior to October 1950)

Location.--Lat 42°13'55", long 71°50'07", on right bank 75 ft downstream from Webster Street Bridge at Worcester, Worcester County, 1 mile upstream from Beaver Brook.

Drainage area.--31.3 sq mi.

Gage.--Recording. Datum of gage is 472.86 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs and extended above.

Remarks.--City of Worcester diverts flow from about 7.0 sq mi of drainage area above station. Flow regulated by reservoirs. Base for partial-duration series, 250 cfs.

Peak stages and discharges of Kettle Brook at Worcester, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Nov. 25, 1923	3.97	495
	Dec. 7, 1923	3.50	375
	Jan. 12, 1924	3.04	270
	Jan. 17, 1924	3.10	280
	Mar. 23, 1924	3.04	270
	Mar. 30, 1924	3.00	260
	Apr. 7, 1924	4.75	740
	May 13, 1924	3.45	362
1925	Feb. 12, 1925	3.83	450
	Mar. 2, 1925	3.17	290
1926	Dec. 4, 1925	3.57	388
	Jan. 19, 1926	3.32	325
	Mar. 8, 1926	3.55	388
	Mar. 25, 1926	3.60	400
1927	Nov. 8, 1926	2.80	230
1928	Nov. 4, 1927	4.95	790
	Dec. 9, 1927	3.75	448
	Dec. 14, 1927	3.45	372
	Dec. 17, 1927	2.90	250
	Feb. 15, 1928	3.45	372
	Apr. 29, 1928	3.61	410
1929	Feb. 7, 1929	3.16	312
	Feb. 28, 1929	3.44	373
	Mar. 6, 1929	3.64	422
	Apr. 16, 1929	3.87	473
	Apr. 22, 1929	3.35	352
	May 3, 1929	2.87	254
1930	Mar. 9, 1930	2.02	116
1931	Mar. 30, 1931	3.30	340
	June 10, 1931	5.32	935
1932	Apr. 1, 1932	3.31	335
	Apr. 13, 1932	3.03	282
	Sept.17, 1932	3.62	404
1933	Oct. 19, 1932	3.50	380
	Nov. 8, 1932	3.05	282
	Nov. 11, 1932	4.25	586
	Apr. 5, 1933	3.57	392
	Apr.18,19, 1933	3.47	368
	Sept.18, 1933	3.60	404
1934	Mar. 5, 1934	4.14	555
	Mar. 29, 1934	2.90	252
	Apr. 13, 1934	4.19	570
	May 4, 1934	3.00	272
1935	Jan. 10, 1935	5.52	1,020
	Mar. 7, 1935	2.99	272
1936	Jan. 16, 1936	4.03	526
	Mar. 12, 1936	6.20	1,340
	Mar. 18, 1936	8.58	2,520
	Apr. 7, 1936	3.33	256
1937	Dec. 9, 1936	3.96	429
	Dec. 21, 1936	3.62	331
1938	Nov. 14, 1937	3.88	264
	Nov. 29, 1937	5.23	775
	Jan. 25, 1938	5.14	736
	Sept.21, 1938	6.28	1,300
1939	Dec. 7, 1938	4.09	327
	Feb. 16, 1939	3.92	276
	Mar. 1, 1939	4.12	337
	Mar. 16, 1939	3.93	279
	Apr. 3, 1939	3.90	270
1940	Apr. 1, 1940	4.55	500
1940	Apr. 10, 1940	4.01	303
	Apr. 13, 1940	4.34	416
	Apr. 22, 1940	3.87	261
	June 1, 1940	4.12	337
1941	Feb. 8, 1941	3.73	219
1942	Mar. 4, 1942	3.97	291
	Mar. 10, 1942	4.65	540
	Mar. 18, 1942	3.92	276
	Mar. 23, 1942	3.85	255
1943	May 22, 1943	3.79	237
1944	Apr. 25, 1944	3.97	291
1945	Jan. 2, 1945	4.04	312
1946	Mar. 8, 1946	4.29	396
1947	Mar. 15, 1947	3.71	213
1948	Mar. 17, 1948	4.16	351
	Mar. 22, 1948	4.28	393
	June 9, 1948	4.23	376
1949	Jan. 7, 1949	3.53	162
1950	Mar. 24, 1950	3.65	195
1951	Nov. 26, 1950	4.00	300
	Feb. 8, 1951	4.79	596
	Apr. 4, 1951	4.25	382
1952	Nov. 3-4, 1951	3.98	294
	Jan. 27, 1952	3.84	252
	June 2, 1952	4.57	508
1953	Jan. 25, 1953	4.14	344
	Mar. 14, 1953	4.11	334
	Mar. 16, 1953	4.76	584
	Mar. 25, 1953	3.86	258
	Mar. 31, 1953	4.35	420
	Apr. 8, 1953	3.86	258
	Apr. 14, 1953	4.24	379
	Apr. 17, 1953	4.42	448
1954	Apr. 18, 1954	4.20	365
	Sept. 1, 1954	3.95	285
	Sept.12, 1954	6.74	1,530
	Sept.17, 1954	3.92	276
1955	Dec. 15, 1954	4.11	344
	Dec. 19, 1954	4.36	439
	Aug. 19, 1955	12.78	3,970
1956	Oct. 16, 1955	5.65	852
	Oct. 31, 1955	4.36	295
	Nov. 5, 1955	4.95	508
	Jan. 9, 1956	4.45	393
	Apr. 6, 1956	4.72	520
	Apr. 17, 1956	4.93	625
	June 4, 1956	3.88	264
1957	Jan. 23, 1957	3.82	246
1958	Apr. 7, 1958	4.98	687
	Apr. 11, 1958	3.89	267
1959	Jan. 22, 1959	3.88	264
	Mar. 7, 1959	4.47	483
	Mar. 22, 1959	3.91	274
	Apr. 3, 1959	5.13	747
	July 21, 1959	4.46	479
1960	Apr. 1, 1960	-	a580

a Maximum annual daily discharge.

1100. Quinsigamond River at North Grafton, Mass.

Location.--Lat 42°13'49", long 71°42'41", on right bank 800 ft downstream from dam at outlet of Flint Pond in North Grafton, Worcester County, and 0.3 mile upstream from Bummet Brook.

Drainage area.--25.5 sq mi.

Gage.--Nonrecording prior to Dec. 7, 1939; recording thereafter. Altitude of gage is 335 ft (from topographic map).

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

Remarks.--Some regulation by Lake Quinsigamond and ponds 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	Apr. 2, 1940	2.78	167	1951	Feb. 8, 1951	2.86	233
				1952	June 6, 1952	3.22	319
1941	Feb. 9, 1941	1.87	66	1953	Mar. 16, 1953	3.48	336
1942	Mar. 19, 1942	2.86	199	1954	Sept.12, 1954	3.50	340
1943	June 18, 1943	2.96	212	1955	Aug. 20, 1955	5.15	820
1944	Apr. 25, 1944	2.55	158				
1945	Mar. 7, 1945	2.51	152	1956	Nov. 5, 1955	3.30	296
				1957	Apr. 13, 1957	2.83	209
1946	Mar. 11, 1946	2.51	152	1958	Apr. 9, 1958	3.03	245
1947	Aug. 4, 1947	2.15	104	1959	July 22, 1959	3.15	268
1948	Mar. 22, 1948	2.86	233	1960	Apr. 6, 1960	3.73	258
1949	Feb. 23, 1949	2.02	86				
1950	Apr. 26, 1950	2.93	249				

1105. Blackstone River at Northbridge, Mass.

Location.--Lat 42°09'13", long 71°39'09", on left bank 800 ft downstream from Paul Whitin Co. dam at Northbridge, Worcester County, and 3 miles downstream from Quinsigamond River.

Drainage area.--139 sq mi.

Gage.--Recording. Altitude of gage is 260 ft (from topographic map).

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

Remarks.--Flow regulated by mills and reservoirs above station. Water diverted from Nashua River basin to Blackstone River basin for municipal supply of city of Worcester. 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)
1936	Mar. 19, 1936	13.7	7,510	1950	Aug. 20, 1950	6.97	1,280
1940	Jan. 15, 1940	8.13	1,840	1951	Feb. 8, 1951	9.04	2,270
				1952	June 2, 1952	8.03	1,750
1941	Feb. 8, 1941	7.47	1,560	1953	Mar. 16, 1953	8.17	1,860
1942	Mar. 9, 1942	7.56	1,600	1954	Sept.12, 1954	11.36	4,510
1943	Dec. 2, 1942	7.60	1,600	1955	Aug. 20, 1955	16.74	16,900
1944	Sept.15, 1944	7.18	1,400				
1945	Jan. 2, 1945	7.31	1,440	1956	Oct. 16, 1955	9.48	2,830
				1957	Apr. 6, 1957	-	1,500
1946	Feb. 14, 1946	6.76	1,210	1958	Apr. 7, 1958	6.99	2,120
1947	Mar. 3, 1947	7.35	1,480	1959	Mar. 7, 1959	8.25	2,870
1948	Mar. 17, 1948	7.57	1,620	1960	Sept.13, 1960	7.66	2,520
1949	Feb. 23, 1949	5.55	768				

1110. Mumford River at East Douglas, Mass.

Location.--Lat 42°04'24", long 71°42'58", on right bank 100 ft upstream from Manchaug Road Bridge at East Douglas, Worcester County, and 0.1 mile downstream from Southwick Brook.

Drainage area.--27.8 sq mi.

Gage.--Recording. Datum of gage is 367.01 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

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

Remarks.--Flow regulated by Manchaug, Stevens, and Willis Ponds. Base for partial-duration series, 220 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Jan. 15, 1940	4.50	244	1946	Mar. 8, 1946	4.65	305
	Mar. 31, 1940	4.54	255				
	Apr. 25, 1940	4.74	312	1947	Mar. 3, 1947	4.20	187
1941	Feb. 8, 1941	4.55	258	1948	Mar. 22, 1948	5.10	420
1942	Mar. 3, 1942	4.61	275	1949	May 23, 1949	3.83	114
	Mar. 9, 1942	4.59	297				
				1950	Mar. 23, 1950	4.21	183
1943	Dec. 2, 1942	4.71	335				
	Dec. 30, 1942	4.48	264	1951	Nov. 26, 1950	4.54	254
					Feb. 8, 1951	4.99	382
1944	Apr. 25, 1944	4.36	225		Feb. 18, 1951	4.42	226
	Sept.15, 1944	4.84	362		Apr. 3, 1951	4.39	220
1945	Jan. 1, 1945	4.36	225				

1115. Branch River at Forestdale, R.I.

Location.--Lat 41°59'47", long 71°33'47", on left bank 20 ft upstream from abandoned bridge, 400 ft downstream from milldam at Forestdale, Providence County, 1 mile east of Slatersville, and 1.6 miles upstream from mouth.

Drainage area.--Area, 93.3 sq mi. Area of lakes, reservoirs, and ponds, 2.65 sq mi. Length of main stream, 18.1 miles. Average slope above gage, 23.6 ft per mile. Average tributary slope, 59.0 ft per mile. Average land slope, 260 ft per mile. Stream density, 1.47 miles per square mile. Mean altitude of basin, 500 ft.

Gage.--Recording. Altitude of gage is 180 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above on basis of flow-over-dam measurements at discharges of 4,240 and 5,800 cfs.

Remarks.--Flow regulated by mills and reservoirs above station. Base for partial-duration series, 880 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	-	5,800	1944	Apr. 25, 1944	6.00	1,300
					Sept.15, 1944	5.92	1,260
1940	Apr. 1, 1940	6.31	1,530				
	Apr. 13, 1940	5.69	1,220	1945	Dec. 1, 1944	5.33	1,000
	Apr. 22, 1940	5.02	885		Jan. 2, 1945	5.69	1,160
	June 1, 1940	5.21	975		Mar. 4, 1945	5.07	898
1941	Feb. 8, 1941	6.16	1,480	1946	Dec. 7, 1945	5.50	1,080
					Dec. 27, 1945	5.06	894
1942	Mar. 4, 1942	5.10	910		Jan. 7, 1946	5.11	914
	Mar. 10, 1942	7.36	1,970		June 3, 1946	5.05	890
	Mar. 18, 1942	5.64	1,140				
	Mar. 23, 1942	5.26	970	1947	Mar. 3, 1947	4.78	782
1943	Dec. 2, 1942	7.69	2,120	1948	Mar. 17, 1948	7.07	1,800
	Dec. 31, 1942	6.69	1,620		Mar. 21, 1948	6.55	1,550
	Mar. 7, 1943	5.51	1,080				

Peak stages and discharges of Branch River at Forestdale, R.I.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 21, 1949	4.12	532	1955	Dec. 15, 1954	5.79	1,210
					Dec. 19, 1954	5.54	1,090
1950	Mar. 24, 1950	5.24	966		Aug. 19, 1955	10.52	4,240
1951	Nov. 26, 1950	5.38	1,020	1956	Oct. 16, 1955	8.33	2,550
	Feb. 8, 1951	6.15	1,370		Nov. 5, 1955	6.71	1,660
	Apr. 4, 1951	5.95	1,280		Jan. 10, 1956	5.52	1,080
					Apr. 9, 1956	5.19	946
1952	Nov. 4, 1951	5.42	1,040		Apr. 17, 1956	5.74	1,180
	Nov. 8, 1951	6.02	1,310				
	Dec. 22, 1951	-	a1,300	1957	Jan. 23, 1957	5.46	1,060
	Mar. 12, 1952	5.99	1,300		Apr. 6, 1957	5.36	1,010
	Apr. 29, 1952	5.31	994				
				1958	Jan. 26, 1958	6.78	1,590
1953	Jan. 25, 1953	5.70	1,160		Mar. 1, 1958	5.34	926
	Feb. 16, 1953	5.32	998		Apr. 7, 1958	5.89	1,160
	Mar. 16, 1953	-	b1,000				
	Mar. 31, 1953	5.94	1,270	1959	Mar. 7, 1959	6.68	1,640
	Apr. 8, 1953	5.29	986		Apr. 3, 1959	6.56	1,580
	Apr. 14, 1953	5.09	906				
	Apr. 17, 1953	5.31	994	1960	Dec. 13, 1959	5.76	1,190
	Apr. 20, 1953	5.13	922		Jan. 4, 1960	5.93	1,270
					Feb. 19, 1960	6.34	1,470
1954	Apr. 18, 1954	6.46	1,530		Apr. 1, 1960	5.46	1,060
	Sept. 1, 1954	5.11	914		Apr. 6, 1960	5.56	1,100
	Sept.12, 1954	9.12	3,080				

a Estimated.
b Daily mean discharge.

1125. Blackstone River at Woonsocket, R.I.

Location.--Lat 42°00'22", long 71°30'13", on right bank at Woonsocket, Providence County, 50 ft downstream from Peters River.

Drainage area.--Area, 416 sq mi. Area of lakes, reservoirs, and ponds, 12.5 sq mi. Length of main stream, 42.6 miles. Average slope above gage, 11.5 ft per mile. Average tributary slope, 41.5 ft per mile. Average land slope, 307 ft per mile. Stream density, 1.32 miles per square mile. Mean altitude of basin, 495 ft.

Gage.--Recording. Datum of gage is 107.42 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and reservoirs above station. Flow diverted from Nashua River basin to Blackstone River basin for supply of city of Worcester, Mass., and flow diverted around station in Hamlet Trench is included, except an average of 4 cfs flowing in Hamlet Trench prior to November 1936, which was not included in total flow. 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)
1929	Mar. 7, 1929	7.05	4,570	1934	Apr. 13, 1934	8.20	6,040
	Apr. 22, 1929	6.98	4,570				
				1935	Jan. 10 or 11, 1935	-	a7,500
1930	Mar. 9, 1930	4.78	1,970		Apr. 14, 1935	6.39	3,820
1931	Mar. 9, 1931	7.44	5,010				
	Mar. 30, 1931	7.02	4,530	1936	Jan. 16, 1936	6.36	3,820
	June 11, 1931	9.80	8,220		Mar. 13, 1936	13.92	14,200
					Mar. 19, 1936	14.40	15,000
1932	Sept.17, 1932	7.00	4,530				
				1937	Dec. 12, 1936	6.76	4,440
1933	Nov. 11, 1932	8.03	5,780		Dec. 21, 1936	8.26	6,340
	Mar. 9, 1933	6.40	3,820				
	Apr. 5, 1933	6.10	3,490	1938	Nov. 14, 1937	6.19	3,700
	Apr. 19, 1933	7.48	5,130		Nov. 29, 1937	8.33	6,380
					June 13, 1938	5.96	3,410
1934	Jan. 8, 1934	6.10	3,490		June 29, 1938	6.40	3,940
	Mar. 6, 1934	8.55	6,560		July 24, 1938	14.43	15,100

a Estimated.

Peak stages and discharges of Blackstone River at Woonsocket, R.I.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Sept.22, 1938	8.24	6,160	1952	Dec. 22, 1951	6.76	3,990
					Mar. 12, 1952	6.49	3,690
1939	Feb. 16, 1939	6.33	3,840				
				1953	Jan. 25, 1953	6.54	3,710
1940	Apr. 1, 1940	8.00	5,860		Mar. 16, 1953	8.34	5,570
	Apr. 13, 1940	6.46	4,010		Mar. 31, 1953	7.74	4,850
					Apr. 17, 1953	7.08	4,120
1941	Feb. 8, 1941	6.91	4,480				
				1954	Apr. 18, 1954	7.44	4,520
1942	Mar. 10, 1942	7.57	5,330		Sept.12, 1954	10.6	9,400
	Mar. 18, 1942	6.53	4,000				
	Mar. 23, 1942	5.99	3,430	1955	Dec. 15, 1954	6.36	3,830
					Dec. 19, 1954	6.46	3,950
1943	Dec. 3, 1942	7.63	5,310		Aug. 19, 1955	21.8	32,900
	Dec. 31, 1942	6.97	4,580				
				1956	Oct. 17, 1955	10.12	8,710
1944	Apr. 25, 1944	6.37	3,830		Nov. 5, 1955	8.43	6,450
					Jan. 10, 1956	6.89	4,550
1945	Jan. 2, 1945	5.90	3,410		Apr. 17, 1956	7.20	4,920
1946	Dec. 8, 1945	6.28	3,830	1957	Jan. 24, 1957	6.29	3,850
1947	Mar. 3, 1947	5.74	3,150	1958	Jan. 27, 1958	7.39	4,970
					Mar. 1, 1958	6.04	3,400
1948	Mar. 17, 1948	7.98	5,810		Apr.7-8, 1958	7.22	4,750
	Mar. 22, 1948	7.71	5,470				
				1959	Mar. 7, 1959	7.57	5,210
1949	Feb. 24, 1949	4.67	2,030		Apr. 3, 1959	7.71	5,390
					July 22, 1959	6.35	3,740
1950	Mar. 24, 1950	6.26	3,620				
				1960	Dec. 13, 1959	6.12	3,720
1951	Feb. 8, 1951	7.56	4,920		Jan. 4, 1960	6.56	4,210
	Apr. 4, 1951	7.16	4,460		Jan. 4, 1960	7.68	b5,550
					Feb. 20, 1960	6.97	4,690
1952	Nov. 4, 1951	6.54	3,740		Apr. 1, 1960	7.04	4,780
	Nov. 8, 1951	6.87	4,090		Apr. 6, 1960	7.01	4,750

b Affected by unusual regulation.

1145. Woonasquatucket River at Centerdale, R.I.

Location.--Lat 41°51'32", long 71°29'16", on right bank 75 ft downstream from bridge on U.S. Highway 44, at Centerdale, Providence County, 6½ miles upstream from mouth.

Drainage area.--Area, 38.3 sq mi. Area of lakes, reservoirs, and ponds, 1.77 sq mi. Length of main stream, 13.9 miles. Average slope above gage, 26.9 ft per mile.

Gage.--Recording. Altitude of gage is 95 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Historical data.--Flood of March 1936 reached a discharge of 1,000 cfs, by flow-over-dam measurement three-quarters of a mile below station.

Remarks.--Discharge includes leakage through bypass canal. Flow regulated by mills and 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)
1936	March 1936	-	1,000	1951	Apr. 3, 1951	4.48	497
				1952	Mar. 11, 1952	4.55	496
1942	Mar. 22, 1942	4.35	414	1953	Mar. 16, 1953	5.35	728
1943	Dec. 30, 1942	4.13	370	1954	Sept.11, 1954	7.03	1,100
1944	Sept.14, 1944	3.77	268	1955	Dec. 18, 1954	5.13	605
1945	Nov. 30, 1944	4.33	409				
				1956	Oct. 17, 1955	6.59	959
1946	Jan. 10, 1946	3.82	258	1957	Apr. 6, 1957	4.64	470
1947	Mar. 3, 1947	3.87	322	1958	Jan. 27, 1958	4.69	484
1948	Mar. 17, 1948	4.88	543	1959	Mar. 6, 1959	5.16	580
1949	Apr. 6, 1949	3.25	208	1960	Feb. 19, 1960	4.50	443
1950	Mar. 23, 1950	3.93	349				

1155. Pawtuxet River at Fiskeville, R.I.

Location.--Lat 41°45'10", long 71°35'05", at outlet of Scituate Reservoir, 2 miles northwest of Hope, Providence County, and about 3 miles upstream from Fiskeville.

Drainage area.--92.8 sq mi. Prior to October 1925, 101.8 sq mi.

Gage.--Recording at site about 3 miles downstream at datum 152.70 ft above mean sea level (levels by Providence Water Supply Board) prior to October 1925; venturi meter at present site thereafter.

Stage-discharge relation.--The wooden control was rated by a series of experiments and a model, by 8 current-meter measurements, and by formula.

Remarks.--Flow regulated by several small reservoirs. Momentary maximum discharges are available only for the period January 1916 to September 1925. 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	Feb. 26, 1916	2.67	2,300	1921	Jan. 15, 1921	1.80	1,120
1917	Mar. 28, 1917	1.76	1,070	1922	Sept. 5, 1922	2.94	2,840
1918	Feb. 26, 1918	2.61	2,200	1923	Mar. 17, 1923	2.34	1,840
1919	Apr. 17, 1919	2.39	1,850	1924	Apr. 7, 1924	3.23	3,330
1920	Mar. 14, 1920	2.67	2,300	1925	Feb. 13, 1925	2.06	1,410

1160. South Branch Pawtuxet River at Washington, R.I.

Location.--Lat 41°41'24", long 71°33'59", at Washington, Kent County, on right bank 150 ft downstream from highway bridge and 0.9 mile upstream from outlet of Tiogue Lake.

Drainage area.--Area, 63.8 sq mi. Area of lakes, reservoirs, and ponds, 1.89 sq mi. Length of main stream, 14.1 miles. Average slope above gage, 13.8 ft per mile.

Gage.--Recording. Altitude of gage is 230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 440 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Flow regulated by Flat River Reservoir (usable capacity, 250,000,000 cu ft) and smaller reservoirs. Diversion above station from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. 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)
1936	March 1936	-	1,810	1951	Apr. 4, 1951	2.74	642
				1952	Mar. 12, 1952	2.87	746
1941	Feb. 10, 1941	2.29	299	1953	Mar. 17, 1953	3.01	898
1942	Mar. 10, 1942	2.80	665	1954	Sept.12, 1954	4.11	1,320
1943	Jan. 1, 1943	2.56	507	1955	Dec. 19, 1954	2.72	658
1944	Apr. 26, 1944	2.48	499				
1945	Dec. 1, 1944	2.69	731	1956	Oct. 17, 1955	3.07	942
				1957	Apr. 10, 1957	2.34	421
1946	Dec. 8, 1945	2.43	494	1958	Jan. 27, 1958	2.83	752
1947	Apr. 7, 1947	2.54	620	1959	Mar. 7, 1959	a3.20	602
1948	June 1, 1948	2.78	959	1960	Feb. 27, 1960	2.35	382
1949	Apr. 20, 1949	2.24	353				
1950	Mar. 24, 1950	2.48	616				

a Occurred Jan. 7, 1959: backwater from ice.

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1165. Pawtuxet River at Cranston, R.I.

Location.--Lat 41°45'03", long 71°26'44", on left bank at Cranston, Providence County, 0.7 mile upstream from Pocasset River.

Drainage area.--200 sq mi.

Gage.--Recording. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended above. Frequent changes in relation occur.

Remarks.--Flow regulated by powerplants, and by Scituate, Flat River, and other Reservoirs (combined usable capacity, about 5 1/3 billion cubic feet). Diversion above station from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, and Warwick. 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	Jan. 15, 1940	8.25	1,960	1951	Apr. 3, 1951	7.07	1,430
				1952	Dec. 21, 1951	7.95	1,600
1941	Feb. 8, 1941	8.21	1,960	1953	Mar. 16, 1953	8.11	1,830
1942	Mar. 9, 1942	7.50	1,430	1954	Sept.13, 1954	8.85	2,010
1943	Dec. 30, 1942	6.89	1,450	1955	Aug. 19, 1955	7.59	1,490
1944	Sept.15, 1944	7.52	1,620				
1945	Feb. 27, 1945	7.38	1,640	1956	Nov. 6, 1955	9.10	2,090
				1957	Apr. 9, 1957	6.34	1,080
1946	Feb. 7, 1946	7.62	1,510	1958	Feb. 28, 1958	7.61	1,770
1947	Mar. 3, 1947	6.96	1,320	1959	Mar. 6, 1959	7.60	1,770
1948	May 19, 1948	8.06	1,910	1960	Feb. 19, 1960	6.97	1,520
1949	Apr. 6, 1949	6.31	1,170				
1950	Mar. 23, 1950	6.97	1,140				

POTOWOMUT RIVER BASIN

1170. Potowomut River near East Greenwich, R.I.

Location.--Lat 41°38'28", long 71°26'45", on right bank 45 ft upstream from Old Forge Dam in North Kingstown, Washington County, 1½ miles south of Village of East Greenwich, Kent County, and 2½ miles upstream from mouth.

Drainage area.--Area, 23.0 sq mi. Area of lakes, reservoirs, and ponds, 0.09 sq mi. Length of main stream, 9.0 miles. Average slope above gage, 41.8 ft per mile.

Gage.--Recording. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Diversions above station for supply of East Greenwich, North Kingstown, Warwick, and U.S. Naval establishments. Base for partial-duration series, 190 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Sept.21, 1938	a8.5	-	1945	Feb. 23, 1945	1.95	196
					Feb. 27, 1945	2.24	301
1941	Feb. 8, 1941	2.36	377				
	Feb. 9, 1941	b2.56	184	1946	Dec. 7, 1945	2.16	269
					Jan. 25, 1946	2.12	255
1942	Feb. 8, 1942	2.10	264		Feb. 7, 1946	2.13	258
	Feb. 17, 1942	2.12	272		Mar. 3, 1946	1.95	199
	Mar. 9, 1942	2.07	252		Aug. 8, 1946	2.48	392
	Mar. 22, 1942	2.02	232				
				1947	Mar. 3, 1947	2.23	294
1943	Dec. 2, 1942	2.08	241				
	Dec. 31, 1942	2.20	285	1948	Feb. 20, 1948	1.93	190
	Mar. 7, 1943	2.12	255		Mar. 17, 1948	2.13	258
					Apr. 2, 1948	2.02	220
1944	Apr. 25, 1944	1.89	177		May 17, 1948	2.05	230
					May 31,June 1, 1948	2.325	328
1945	Nov. 30, 1944	2.25	304				
	Jan. 2, 1945	2.17	274				

a Backwater from hurricane tidal wave.
b Backwater from ice.

Peak stages and discharges of Potowomut River near East Greenwich, R.I.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Apr. 6, 1949	2.055	233	1955	Dec. 15, 1954	1.955	210
					Dec. 19, 1954	1.99	222
1950	Mar. 24, 1950	2.16	269		Dec. 30, 1954	1.95	208
					Feb. 7, 1955	1.935	204
1951	Feb. 1 or 2, 1951	1.945	193		Feb. 12, 1955	2.12	269
					Mar. 23, 1955	1.995	226
	Feb. 8, 1951	2.00	213		Aug. 19, 1955	2.12	251
	Mar. 20, 1951	1.96	200				
	Apr. 3, 1951	2.045	227	1956	Oct. 17, 1955	2.345	347
					Nov. 5, 1955	2.31	336
1952	Dec. 21, 1951	2.325	328		Apr. 8, 1956	1.915	195
	Jan. 27, 1952	1.945	193				
	Mar. 12, 1952	2.23	294	1957	Apr. 6, 1957	2.065	248
	Apr. 28, 1952	1.96	200		May 10, 1957	2.22	305
1953	Feb. 16, 1953	2.385	361	1958	Jan. 15, 1958	2.33	344
	Mar. 4-5, 1953	2.065	249		Jan. 22, 1958	2.125	269
	Mar. 14, 1953	2.15	280		Jan. 26, 1958	1.945	205
	Mar. 16, 1953	2.395	368		Feb. 28, 1958	2.35	350
	Mar. 30, 1953	1.975	221		Apr. 7, 1958	2.24	312
	Apr. 8, 1953	2.25	316		Apr. 12, 1958	1.975	219
	Apr. 14, 1953	2.175	291		Apr. 29, 1958	2.055	248
	May 1, 1953	1.94	207		May 8, 1958	2.035	240
1954	Dec. 8, 1953	2.04	235	1959	Mar. 2, 1959	1.94	205
	Dec. 15, 1953	2.025	228		Mar. 6, 1959	2.42	375
	Apr. 18, 1954	2.07	251				
	May 9, 1954	2.265	319	1960	Dec. 13, 1959	1.905	191
	Aug. 10, 1954	2.22	298		Feb. 19, 1960	1.965	212
	Aug. 31, 1954	a6.78	-		Feb. 26, 1960	2.14	276
	Sept. 12, 1954	2.63	450		Apr. 5, 1960	2.05	244

a Backwater from hurricane tidal wave.

PAWCATUCK RIVER BASIN

1175. Pawcatuck River at Wood River Junction, R.I.
(Published as Charles River at Wood River Junction prior to October 1943)

Location.--Lat 41°26'42", long 71°40'53", on right bank at downstream side of bridge on Alton-Carolina road, 0.8 mile northeast of Wood River Junction, 1½ miles southwest of Carolina, Washington County, and 2.9 miles upstream from Wood River.

Drainage area.--Area, 100 sq mi. Area of lakes, reservoirs, and ponds, 2.76 sq mi. Length of main stream, 18.1 miles. Average slope above gage, 4.41 ft per mile.

Gage.--Recording. Altitude of gage is 40 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by powerplant and mills 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)
1941	Feb. 10, 1941	4.33	566	1951	Apr. 5, 1951	4.07	502
1942	Mar. 24, 1942	4.49	601	1952	Mar. 14, 1952	4.69	686
1943	Jan. 1, 1943	4.44	580	1953	Mar. 17, 1953	5.83	1,040
1944	Apr. 27, 1944	3.84	443	1954	Sept. 13-14, 1954	6.23	882
1945	Mar. 2, 1945	4.67	630	1955	Jan. 8, 1955	4.63	580
1946	Aug. 9, 1946	4.50	614	1956	Oct. 18, 1955	5.48	779
1947	Mar. 5, 1947	4.18	505	1957	Apr. 9, 1957	4.50	554
1948	Mar. 22, 1948	5.12	786	1958	Apr. 8, 1958	5.47	776
1949	Apr. 9, 1949	3.85	451	1959	Mar. 8-9, 1959	4.70	596
1950	Mar. 25, 1950	4.08	507	1960	Feb. 28, 1960	4.75	607

1180. Wood River at Hope Valley, R.I.

Location.--Lat 41°29'58", long 71°42'57", on right bank 0.2 mile downstream from highway bridge at Hope Valley, Washington County, and 6.6 miles upstream from mouth.

Drainage area.--Area, 72.4 sq mi. Area of lakes, reservoirs, and ponds, 1.53 sq mi. Length of main stream, 14.0 miles. Average slope above gage, 16.2 ft per mile.

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

Stage-discharge relation.--Defined by current-meter measurements. Changes in relation occur.

Historical data.--Flood in March 1936 reached a discharge of 1,540 cfs, by flow-over-dam measurement a quarter of a mile above station.

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)
1936	March 1936	-	1,540	1953	Mar. 16, 1953	7.10	1,260
					Mar. 31, 1953	5.05	635
1942	Mar. 10, 1942	5.62	684		Apr. 9, 1953	4.87	597
	Mar. 23, 1942	5.62	684		Apr. 14, 1953	5.07	639
					Apr. 17, 1953	4.98	620
1943	Dec. 31, 1942	5.95	765				
				1954	Nov. 26, 1953	4.67	559
1944	Sept.15, 1944	5.52	636		Dec. 8, 1953	5.43	726
					Dec. 15, 1953	4.99	622
1945	Dec. 1, 1944	5.58	681		Apr. 18, 1954	5.39	716
	Jan. 2, 1945	5.67	699		Sept.12, 1954	7.45	1,470
	Feb. 27, 1945	5.20	608				
	Mar. 7, 1945	5.19	606	1955	Dec. 15, 1954	4.43	574
					Dec. 19, 1954	5.20	748
1946	Dec. 27, 1945	4.88	551		Feb. 12, 1955	4.79	649
					Aug. 20, 1955	4.56	600
1947	Mar. 3, 1947	4.84	544				
				1956	Oct. 17, 1955	6.95	1,270
1948	Mar. 17, 1948	5.77	819		Nov. 1, 1955	4.40	568
	Apr. 2, 1948	5.51	747		Nov. 5, 1955	5.36	790
	May 18, 1948	5.70	799				
	May 31, 1948	5.75	813	1957	Apr. 6, 1957	5.06	713
1949	Apr. 7, 1949	4.48	485	1958	Jan. 16, 1958	4.37	597
					Jan. 23, 1958	4.94	735
1950	Mar. 24, 1950	4.28	460		Jan. 26, 1958	4.78	695
					Mar. 1, 1958	4.54	638
1951	Mar. 21, 1951	4.69	562		Apr. 7, 1958	5.45	867
	Apr. 4, 1951	5.51	747		Apr. 29, 1958	4.31	583
1952	Dec. 22, 1951	6.29	972	1959	Mar. 7, 1959	5.58	901
	Jan. 27, 1952	5.10	646		Apr. 3, 1959	4.73	683
	Mar. 12, 1952	5.48	739				
				1960	Dec. 14, 1959	4.75	688
1953	Feb. 16, 1953	5.28	688		Feb. 20, 1960	4.38	599
	Mar. 5, 1953	5.12	651		Feb. 27, 1960	4.37	597
	Mar. 14, 1953	6.11	918		Apr. 6, 1960	4.77	693

1185. Pawcatuck River at Westerly, R.I.

Location.--Lat 41°23'01", long 71°50'01", on left bank at Westerly, Washington County, 2.1 miles downstream from Shunock River.

Drainage area.--Area, 295 sq mi. Area of lakes, reservoirs, and ponds, 6.04 sq mi. Length of main stream, 37.2 miles. Average slope above gage, 2.71 ft per mile.

Gage.--Recording. Altitude of gage is mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Historical data.--Flood of March 1936 reached a discharge of 3,150 cfs, by flow-over-dam measurement 1½ miles upstream from station. Maximum stage known, 15.0 ft Sept. 21, 1938 (due to hurricane tidal wave), from information by local residents. Maximum discharge known, which occurred in November 1927, was possibly more than twice that of March 1936.

Remarks.--Diversion above station for municipal supply of Westerly. 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)
1936	March 1936	-	3,150	1951	Nov. 24, 1950	a8.94	-
					Apr. 4, 1951	6.82	1,930
1941	Feb. 8, 1941	6.58	1,670	1952	Nov. 3, 1951	a7.74	-
1942	Mar. 23, 1942	6.95	2,080		Dec. 22, 1951	6.85	1,960
1943	Dec. 31, 1942	7.16	2,240	1953	Mar. 16, 1953	8.83	3,510
1944	Apr. 25, 1944	6.38	1,610	1954	Sept.12, 1954	8.92	3,340
	Sept.14, 1944	a9.32	-	1955	Dec. 20, 1954	6.94	2,060
1945	Dec. 1, 1944	7.12	2,180				
				1956	Oct. 17, 1955	b8.22	2,800
1946	Aug. 8, 1946	7.38	1,930	1957	Apr. 6-7,1957	c6.73	1,870
1947	Mar. 5, 1947	6.47	1,540	1958	Apr. 7, 1958	a7.74	2,420
1948	Mar. 20, 1948	7.35	2,560	1959	Mar. 7, 1959	6.89	2,030
1949	Apr. 8, 1949	6.08	1,460	1960	Apr. 6, 1960	7.03	2,010
1950	Mar. 24, 1950	6.04	1,460		Sept.12, 1960	a8.72	-

a Affected by tide.
b Backwater from ice.
c Occurred on Apr. 9; backwater from ice.

THAMES RIVER BASIN

1195. Willimantic River near South Coventry, Conn.

Location.--Lat 41°45'02", long 72°15'58", on left bank 700 ft upstream from highway bridge, 1 mile downstream from Mill Brook, 2.4 miles southeast of South Coventry, Tolland County, 2.8 miles upstream from Hop River, and 6.3 miles upstream from mouth.

Drainage area.--Area, 121 sq mi. Area of lakes, reservoirs, and ponds, 1.91 sq mi. Length of main stream, 25.7 miles. Average slope above gage, 16.0 ft per mile. Average tributary slope, 91.4 ft per mile. Average land slope, 378 ft per mile. Stream density, 1.69 miles per square mile. Mean altitude of basin, 698 ft.

Gage.--Recording. Datum of gage is 239.05 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above on basis of flow-over-dam measurements at discharges of 7,880 and 14,000 cfs, and contracted-opening measurement at 24,200 cfs.

Remarks.--Flood records affected by regulation less than 5 percent. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges of Willimantic River near South Coventry, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 28, 1932	6.65	1,160
1933	Nov. 10, 1932	6.84	1,260
	Apr. 4, 1933	6.62	1,140
	Sept.17, 1933	6.52	1,100
1934	Mar. 6, 1934	10.30	4,420
	Apr. 12, 1934	7.78	1,840
	May 3, 1934	6.48	1,100
	Sept.30, 1934	6.80	1,240
1935	Jan. 10, 1935	8.26	2,220
1936	Mar. 12, 1936	12.19	7,880
	Mar. 19, 1936	11.65	6,620
	Apr. 6, 1936	6.87	1,260
1937	Dec. 12, 1936	6.57	1,120
	Dec. 20, 1936	7.56	1,660
	Jan. 25, 1937	6.68	1,190
1938	Nov. 14, 1937	7.18	1,450
	Nov. 29, 1937	9.42	3,290
	Jan. 25, 1938	9.81	3,770
	July 23, 1938	9.09	2,950
	Sept.21, 1938	18.08	a15,500
1939	Dec. 6, 1938	7.98	1,940
	Feb. 16, 1939	8.19	2,100
	Feb. 27, 1939	6.93	1,250
	Mar. 1, 1939	7.01	1,280
	Apr. 2, 1939	7.20	1,400
	Apr. 7, 1939	6.97	1,250
1940	Jan. 15, 1940	9.59	3,400
	Apr. 1, 1940	8.95	2,660
	Apr. 9, 1940	8.13	1,880
	Apr. 13, 1940	8.90	2,550
	June 1, 1940	9.42	3,140
1941	Feb. 8, 1941	9.01	2,660
1942	Mar. 3, 1942	7.10	1,250
	Mar. 9, 1942	8.16	1,880
	Mar. 22, 1942	7.52	1,450
1943	Dec. 31, 1942	8.37	2,040
1944	Apr. 25, 1944	7.68	1,570
	June 25, 1944	8.43	2,120
	Sept.15, 1944	7.18	1,300
1945	Jan. 2, 1945	7.58	1,510
	Apr. 26, 1945	6.97	1,190
1946	Dec. 26, 1945	b9.98	-
	Jan. 7, 1946	6.31	945
1947	Mar. 15, 1947	6.16	1,020
1948	Nov. 12, 1947	6.53	1,220
	Mar. 17, 1948	7.81	1,940
	Mar. 21, 1948	8.25	2,240
	Apr. 2, 1948	6.55	1,220
1949	Jan. 6, 1949	6.25	1,070
1950	May 26, 1950	5.64	838
1951	Dec. 5, 1950	6.35	1,120
	Feb. 8, 1951	8.25	2,240
	Feb. 22, 1951	6.35	1,120
	Mar. 31, 1951	7.66	1,870
	Apr. 3, 1951	7.47	1,730
1952	Nov. 3, 1951	6.46	1,160
	Dec. 21, 1951	7.56	1,800
	Mar. 11, 1952	7.35	1,670
	June 2, 1952	6.76	1,240
	Aug. 11, 1952	6.60	1,170
1953	Jan. 25, 1953	8.31	2,150
	Mar. 13, 1953	7.99	1,940
	Mar. 16, 1953	8.49	2,300
	Mar. 25, 1953	6.50	1,160
	Mar. 31, 1953	8.37	2,220
	Apr. 8, 1953	6.46	1,140
	Apr. 14, 1953	7.26	1,520
	Apr. 17, 1953	7.46	1,630
1954	Apr. 18, 1954	7.21	1,470
	Sept.12, 1954	9.37	3,100
1955	Dec. 19, 1954	6.46	1,210
	Aug. 14, 1955	7.40	1,600
	Aug. 19, 1955	18.66	24,200
1956	Oct. 16, 1955	9.29	2,990
	Oct. 31, 1955	7.66	1,700
	Nov. 5, 1955	8.48	2,150
	Apr. 6, 1956	7.11	1,160
	Apr. 17, 1956	7.41	1,330
	June 3, 1956	7.29	1,270
1957	Jan. 23, 1957	7.56	1,420
	Apr. 6, 1957	7.14	1,180
1958	Apr. 7, 1958	7.58	1,450
1959	Nov. 29, 1958	7.25	1,240
	Mar. 7, 1959	9.22	2,840
	Apr. 3, 1959	9.20	2,840
1960	Oct. 24, 1959	7.74	1,560
	Dec. 13, 1959	7.12	1,160
	Jan. 3, 1960	7.81	1,590
	Apr. 1, 1960	9.34	2,950
	June 5, 1960	6.95	1,140
	Sept.13, 1960	7.71	1,520

a Result of dam failure; natural peak, 14,900 cfs (gage height, 17.6 ft).
b Backwater from ice.

1200. Hop River near Columbia, Conn.

Location.--Lat 41°43'39", long 72°18'10", on right bank 1,500 ft downstream from abandoned mill and dam at village of Hop River, 2 miles north of Columbia, Tolland County, and 4.2 miles upstream from mouth.

Drainage area.--Area, 76.2 sq mi. Area of lakes, reservoirs, and ponds, 1.26 sq mi. Length of main stream, 21.9 miles. Average slope above gage, 17.0 ft per mile. Average tributary slope, 114 ft per mile. Average land slope, 334 ft per mile. Stream density, 1.61 miles per square mile. Mean altitude of basin, 605 ft.

Gage.--Recording. Datum of gage is 249.25 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above by flow-over-dam measurement at 6,450 cfs.

Remarks.--Flood records not affected by regulation. All stages are recorded stages but above 11.7 ft intake, drawdown is eliminated when water has access to well through door opening. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Nov. 10, 1932	10.66	1,970
	Mar. 22, 1933	8.03	1,050
1934	Jan. 8, 1934	8.17	1,110
	Mar. 5, 1934	a11.90	-
	Mar. 6, 1934	-	1,700
	Apr. 1, 1934	7.55	930
	Apr. 12, 1934	8.78	1,300
	Sept.30, 1934	7.77	990
1935	Jan. 10, 1935	9.40	1,500
1936	Jan. 16, 1936	8.16	1,110
	Mar. 12, 1936	13.85	3,640
	Mar. 18, 1936	12.09	2,530
	Mar. 21, 1936	8.63	1,240
	Apr. 6, 1936	8.51	1,200
1937	Dec. 12, 1936	7.66	980
	Dec. 20, 1936	10.00	1,720
	Jan. 25, 1937	7.98	1,040
	Mar. 16, 1937	8.42	1,190
1938	Nov. 14, 1937	8.83	1,320
	Nov. 29, 1937	13.08	2,980
	Jan. 7, 1938	7.79	1,010
	Jan. 25, 1938	12.99	2,970
	July 23, 1938	11.70	2,530
	Sept.21, 1938	16.25	6,450
1939	Dec. 6, 1938	8.44	1,180
	Feb. 16, 1939	9.6	1,600
	Feb. 27, 1939	7.9	1,000
	Apr. 2, 1939	8.17	1,100
1940	Jan. 15, 1940	11.34	2,330
	Mar. 15, 1940	7.36	905
	Apr. 1, 1940	9.39	1,550
	Apr. 9, 1940	8.22	1,140
	Apr. 13, 1940	8.71	1,300
	June 1, 1940	10.63	2,020
1941	Feb. 8, 1941	12.38	2,880
	June 10, 1941	10.40	1,940
1942	Mar. 3, 1942	7.66	995
	Mar. 9, 1942	9.72	1,660
	Mar. 22, 1942	7.76	1,020
1943	Nov. 26, 1942	8.93	1,380
	Dec. 2, 1942	8.00	1,080
	Dec. 31, 1942	11.05	2,180
1944	Apr. 25, 1944	9.20	1,480
	June 25, 1944	11.80	2,580
	Sept.15, 1944	9.60	1,620
1945	Nov. 30, 1944	8.85	1,340
1945	Jan. 2, 1945	9.16	1,480
	Feb. 27, 1945	a7.90	-
	Feb. 27, 1945	7.59	965
	Apr. 26, 1945	8.72	1,300
1946	June 3, 1946	7.12	815
1947	Apr. 6, 1947	6.96	785
1948	Nov. 12, 1947	8.11	1,120
	Feb. 20, 1948	a7.55	-
	Mar. 17, 1948	9.81	1,700
	Mar. 20, 1948	8.44	1,200
	Apr. 1, 1948	7.46	935
1949	Jan. 6, 1949	7.69	960
1950	Mar. 23, 1950	7.57	900
1951	Feb. 8, 1951	10.35	1,940
	Feb. 22, 1951	7.88	1,020
	Mar. 31, 1951	10.23	1,860
	Apr. 3, 1951	9.50	1,580
1952	Nov. 4, 1951	7.47	900
	Dec. 21, 1951	9.92	1,740
	Jan. 23, 1952	7.77	990
	Mar. 12, 1952	10.20	1,860
	Apr. 28, 1952	7.81	990
	June 2, 1952	7.46	935
1953	Dec. 12, 1952	7.47	935
	Jan. 25, 1953	10.98	2,180
	Feb. 16, 1953	7.53	935
	Mar. 13, 1953	10.23	1,860
	Mar. 16, 1953	10.12	1,820
	Mar. 27, 1953	7.48	935
	Mar. 30, 1953	10.15	1,860
	Apr. 14, 1953	7.87	1,060
	Apr. 17, 1953	7.86	1,060
1954	Apr. 18, 1954	8.81	1,340
	Sept.11, 1954	11.43	2,810
1955	Nov. 3, 1954	7.82	1,050
	Dec. 15, 1954	9.13	1,560
	Dec. 19, 1954	8.41	1,270
	Mar. 23, 1955	7.65	980
	Aug. 14, 1955	7.50	950
	Aug. 19, 1955	15.10	5,570
1956	Oct. 16, 1955	14.20	4,820
	Oct. 31, 1955	9.36	1,690
	Nov. 5, 1955	10.22	2,110
	Apr. 6, 1956	7.55	965
1957	Jan. 23, 1957	8.40	1,270
	Apr. 6, 1957	8.10	1,160

a Backwater from ice.

Peak stages and discharges of Hop River near Columbia, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Dec. 27, 1957	7.69	1,020	1960	Oct. 25, 1959	7.67	1,020
	Jan. 23, 1958	7.96	1,120		Dec. 13, 1959	7.93	1,080
	Jan. 26, 1958	7.50	950		Jan. 3, 1960	9.51	1,760
	Apr. 7, 1958	7.58	980		Feb. 19, 1960	7.98	1,120
					Mar. 31, 1960	9.29	1,660
1959	Nov. 29, 1958	8.45	1,270		Apr. 5, 1960	7.70	1,020
	Mar. 7, 1959	10.88	2,510		Sept.13, 1960	8.40	1,270
	Apr. 3, 1959	11.14	2,630				

1205. Safford Brook near Woodstock Valley, Conn.

Location.--Lat 41°55'35", long 72°03'37", on right bank on downstream side of town road bridge, 0.3 mile downstream from Bradford Brook, 0.3 mile upstream from mouth, 1.2 miles southeast of Woodstock Valley, Windham County, and 2 miles southwest of West Woodstock.

Drainage area.--4.08 sq mi.

Gage.--Recording. Datum of gage is 552.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs and extended above on basis of contracted-opening and flow-over-road measurement at 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)
1951	Nov. 26, 1950	4.10	175	1955	Dec. 15, 1954	3.95	154
	Feb. 7, 1951	5.31	390		Dec. 18, 1954	4.71	270
	Apr. 3, 1951	4.36	214		Aug. 19, 1955	6.68	1,000
1952	Nov. 3, 1951	3.92	150	1956	Oct. 16, 1955	4.55	242
	Nov. 7, 1951	5.14	360		Nov. 5, 1955	4.84	300
	Dec. 21, 1951	4.96	320		Apr. 5, 1956	3.97	156
	Mar. 11, 1952	4.24	196				
	June 1, 1952	4.07	170	1957	Jan. 23, 1957	4.50	235
1953	Dec. 12, 1952	3.93	151	1958	Apr. 6, 1958	4.19	188
	Jan. 24, 1953	5.05	340				
	Feb. 15, 1953	4.16	184	1959	Nov. 29, 1958	4.20	190
	Mar. 13, 1953	4.65	260		Mar. 6, 1959	5.03	340
	Mar. 16, 1953	4.84	298		Apr. 3, 1959	5.36	402
1954	Nov. 25, 1953	4.14	168	1960	Oct. 24, 1959	4.28	197
	Apr. 18, 1954	4.26	199		Jan. 3, 1960	4.73	276
	Aug. 31, 1954	3.93	151		Mar. 31, 1960	4.89	308
	Sept.11, 1954	5.89	570		Sept.12, 1960	4.19	182

1210. Mount Hope River near Warrenville, Conn.

Location.--Lat 41°50'37", long 72°10'10", on left bank 250 ft downstream from Knowlton Brook, 700 ft upstream from bridge on State Highway 89, 1¾ miles south of Warrenville, Windham County, and 3¼ miles southwest of Ashford.

Drainage area.--Area, 29.1 sq mi. Area of lakes, reservoirs, and ponds, 0.36 sq mi. Length of main stream, 10.4 miles. Average slope above gage, 72.7 ft per mile.

Gage.--Recording. Datum of gage is 335.57 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and extended above on basis of contracted-opening measurement at 5,590 cfs.

Remarks.--Flood records not affected by regulation. Base for partial-duration series, 400 cfs.

Peak stages and discharges of Mount Hope River near Warrenville, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	September 1938	14.5	-
1941	Feb. 8, 1941	7.00	1,090
	May 9, 1941	5.66	646
1942	Jan. 19, 1942	a4.98	-
	Mar. 3, 1942	5.53	609
	Mar. 9, 1942	6.48	814
	Mar. 17, 1942	4.57	452
	Mar. 22, 1942	5.78	665
1943	Dec. 30, 1942	6.48	814
1944	Feb. 15, 1944	4.35	410
	Mar. 7, 1944	4.50	435
	Apr. 25, 1944	6.04	704
	June 24, 1944	5.38	591
	Sept.15, 1944	6.96	950
1945	Nov. 30, 1944	4.89	503
	Jan. 1, 1945	6.3	767
	Feb. 27, 1945	a4.62	-
	Apr. 26, 1945	6.10	724
1946	Dec. 26, 1945	4.75	469
	Feb. 14, 1946	4.37	410
	May 28, 1946	4.45	426
	June 2, 1946	4.40	418
1947	Mar. 14, 1947	4.77	486
	Apr. 5, 1947	4.57	452
1948	Nov. 8, 1947	4.53	435
	Nov. 12, 1947	5.68	646
	Mar. 17, 1948	5.34	573
	Mar. 20, 1948	6.36	767
	Apr. 1, 1948	5.12	537
1949	Jan. 6, 1949	4.59	452
1950	Mar. 9, 1950	5.69	646
	Mar. 23, 1950	4.42	418
	May 25, 1950	4.85	486
1951	Nov. 26, 1950	4.67	469
	Dec. 4, 1950	4.53	435
	Jan. 15, 1951	4.53	435
	Feb. 7, 1951	7.79	1,610
	Feb. 18, 1951	4.51	435
	Feb. 22, 1951	4.31	401
	Mar. 20, 1951	4.40	418
	Mar. 31, 1951	5.54	609
	Apr. 3, 1951	6.01	704
1952	Nov. 3, 1951	5.94	684
	Nov. 8, 1951	4.84	486
1952	Dec. 21, 1951	7.15	1,190
	Jan. 23, 1952	4.64	452
	Jan. 26, 1952	4.65	452
	Mar. 11, 1952	6.04	704
	Apr. 28, 1952	4.75	486
	June 1, 1952	6.73	865
	July 10, 1952	5.00	520
	Aug. 10, 1952	5.15	555
1953	Dec. 12, 1952	4.73	469
	Jan. 24, 1953	6.73	865
	Feb. 15, 1953	5.28	573
	Mar. 13, 1953	6.74	865
	Mar. 16, 1953	6.82	990
	Mar. 24, 1953	5.29	573
	Mar. 30, 1953	5.90	684
	Apr. 14, 1953	5.20	473
	Apr. 16, 1953	5.01	439
1954	Dec. 14, 1953	5.22	479
	Apr. 18, 1954	5.78	630
	Aug. 31, 1954	5.77	620
	Sept.11, 1954	9.20	3,250
1955	Dec. 15, 1954	5.93	660
	Dec. 18, 1954	6.29	780
	Feb. 7, 1955	5.03	483
	Aug. 19, 1955	10.41	5,590
1956	Oct. 16, 1955	6.63	912
	Nov. 5, 1955	6.66	920
	Apr. 5, 1956	5.16	460
	June 3, 1956	5.33	502
1957	Jan. 23, 1957	a6.25	550
	Apr. 6, 1957	4.89	410
1958	Dec. 21, 1957	4.90	410
	Dec. 26, 1957	5.27	480
	Jan. 23, 1958	5.02	430
	Jan. 26, 1958	5.03	440
	Apr. 6, 1958	5.45	528
1959	Nov. 29, 1958	6.30	780
	Jan. 22, 1959	5.48	540
	Mar. 6, 1959	7.44	1,340
	Apr. 3, 1959	7.90	1,690
1960	Oct. 24, 1959	5.77	602
	Dec. 13, 1959	5.86	630
	Jan. 3, 1960	6.46	840
	Feb. 19, 1960	4.95	430
	Mar. 31, 1960	7.05	1,140
	Apr. 5, 1960	5.27	505
	Sept.12, 1960	6.00	730

a Backwater from ice.

1220. Natchaug River at Willimantic, Conn.

Location.--Lat 41°43'14", long 72°11'52", on right bank 200 ft downstream from New York, New Haven and Hartford Railroad bridge, 500 ft upstream from bridge on U.S. Highway 6, 1 mile northeast of Willimantic, Windham County, 1.7 miles upstream from mouth, and 4 miles downstream from Mount Hope River.

Drainage area.--Area, 169 sq mi. Area of lakes, reservoirs, and ponds, 2.57 sq mi. Length of main stream, 26.7 miles. Average slope above gage, 23.4 ft per mile. Average tributary slope, 79.9 ft per mile. Average land slope, 341 ft per mile. Stream density, 1.63 miles per square mile. Mean altitude of basin, 614 ft.

Gage.--Recording. Datum of gage is 150.31 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and at 14,200 and 26,000 cfs by flow-over-dam measurements at site 2 miles above station.

Remarks.--Flood records not affected by regulation prior to March 1952. Since then flow regulated by Mansfield Hollow flood-control reservoir 4 miles upstream. Base for partial-duration series, 1,800 cfs. Only annual peaks are shown subsequent to 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 9, 1931	5.85	1,630	1942	Mar. 4, 1942	6.87	2,070
	Mar. 30, 1931	7.46	2,520		Mar. 10, 1942	9.90	4,470
	June 10, 1931	6.57	2,030		Mar. 17, 1942	6.57	1,900
1932	Mar. 29, 1932	7.75	2,680		Mar. 22, 1942	7.76	2,610
1933	Nov. 11, 1932	8.83	3,270	1943	Dec. 2, 1942	6.85	2,020
	Mar. 22, 1933	6.20	1,830		Dec. 31, 1942	9.33	3,880
	Sept.18, 1933	6.30	1,880		Mar. 7, 1943	6.54	1,840
1934	Jan. 8, 1934	6.30	1,880	1944	Apr. 25, 1944	8.56	3,150
	Mar. 6, 1934	9.56	4,150		June 25, 1944	6.83	2,010
	Mar. 28, 1934	6.41	1,930		Sept.15, 1944	7.95	2,730
	Apr. 12, 1934	8.34	3,030	1945	Dec. 1, 1944	6.81	2,010
	May 4, 1934	6.52	1,980		Jan. 2, 1945	8.26	2,930
1935	Jan. 10, 1935	10.13	4,670		Apr. 26, 1945	7.62	2,490
1936	Jan. 16, 1936	7.87	2,760	1946	June 3, 1946	6.01	1,610
	Mar. 12, 1936	13.21	12,600	1947	Apr. 6, 1947	6.21	1,710
	Mar. 18, 1936	13.57	a14,200	1948	Nov. 13, 1947	7.05	2,260
	Mar. 22, 1936	7.95	3,040		Mar. 17, 1948	8.27	3,080
	Apr. 7, 1936	7.08	2,450		Mar. 21, 1948	9.46	4,100
1937	Oct. 18, 1936	7.10	2,450		Apr. 2, 1948	6.66	2,080
	Dec. 12, 1936	6.96	2,390	1949	Jan. 7, 1949	6.08	1,720
	Dec. 20, 1936	9.33	4,050	1950	Mar. 9, 1950	6.25	1,780
	Jan. 25, 1937	6.32	1,970	1951	Feb. 8, 1951	8.36	3,090
	Mar. 16, 1937	6.21	1,910		Mar. 31, 1951	6.69	2,030
1938	Nov. 14, 1937	8.66	3,570		Apr. 4, 1951	7.42	2,450
	Nov. 29, 1937	12.27	9,000	1952	Nov. 4, 1951	6.49	1,910
	Jan. 25, 1938	11.02	5,880		Nov. 8, 1951	6.40	1,850
	July 22, 1938	12.51	9,740		Dec. 22, 1951	7.78	2,690
	Sept.21, 1938	16.39	b32,000		Mar. 12, 1952	7.69	2,630
1939	Dec. 7, 1938	7.31	2,310		Apr. 29, 1952	6.36	1,850
	Feb. 16, 1939	7.57	2,530		June 2, 1952	8.17	2,950
	Feb. 27, 1939	6.95	2,130	1953	Mar. 18, 1953	8.09	2,880
	Mar. 1, 1939	6.76	2,010	1954	Sept.15, 1954	6.7	2,150
	Apr. 7, 1939	6.58	1,890	1955	Aug. 27, 1955	8.58	3,250
1940	Nov. 1, 1939	6.88	2,070	1956	Oct. 19, 1955	8.57	3,230
	Jan. 15, 1940	10.3	4,900	1957	Apr. 7, 1957	5.77	1,440
	Apr. 1, 1940	9.01	3,610	1958	Jan. 30, 1958	6.82	1,990
	Apr. 9, 1940	7.75	2,600	1959	Apr. 7, 1959	-	c2,300
	Apr. 13, 1940	9.46	4,070	1960	Apr. 2, 1960	6.98	2,210
	June 1, 1940	9.31	3,880				
1941	Feb. 8, 1941	10.25	4,790				
	May 10, 1941	7.04	2,140				

a Result of upstream release; natural peak, 12,900 cfs Mar. 19 (gage height, 13.28 ft).
b Result of upstream release; natural peak, 27,200 cfs (gage height, 15.7 ft).
c Maximum daily mean discharge.

1225. Shetucket River near Willimantic, Conn.
(Published as "at South Windham" 1920-21, 1929-33)

Location.--Lat 41°42'01", long 72°10'57", on right bank at downstream side of Bingham Bridge, 500 ft upstream from New York, New Haven and Hartford Railroad bridge, 500 ft downstream from Potash Brook, 1.3 miles downstream from confluence of Willimantic and Natchaug Rivers, 1½ miles southeast of Willimantic, Windham County, and at mile 16.5.

Drainage area.--Area, 401 sq mi. Area of lakes, reservoirs, and ponds, 5.96 sq mi. Length of main stream, 33.1 miles. Average slope above gage, 11.4 ft per mile. Average tributary slope, 61.7 ft per mile. Average land slope, 344 ft per mile. Stream density, 1.62 miles per square mile. Mean altitude of basin, 620 ft.

Gage.--Nonrecording at about same site and about same datum Apr. 4, 1904, to Dec. 31, 1905; recording at site 1½ miles downstream at different datum October 1919 to Sept. 30, 1921, and Sept. 1, 1928, to Sept. 30, 1933; recording at present site and datum thereafter. Datum of gage is 131.40 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Only annual peaks are shown subsequent to 1953.

Stage-discharge relation.--At present site, defined by current-meter measurements below 11,000 cfs, at 23,900 cfs Mar. 12, 1936, by flow-over-dam measurements at sites 9 and 12 miles downstream, and at 52,200 cfs Sept. 21, 1938, by flow-over-dam measurements at sites 5 and 9 miles downstream correlated with flow at gaging stations upstream, adjusted for intervening area. At site at South Windham, defined by current-meter measurements below 43,000 cfs and extended above by logarithmic plotting.

Remarks.--Flood records affected by regulation less than 5 percent. Flood of June 2, 1952, adjusted for regulation by Mansfield Hollow flood-control reservoir completed March 1952. All stages are recorded stages but prior to October 1939 intake drawdown was eliminated at stages above 14.3 ft when water had direct access to well through door opening. Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Apr. 10, 1904	8.2	5,120
	Apr. 29, 1904	7.5	4,300
	Sept.15, 1904	7.4	4,200
1905	Dec. 29, 1904	7.2	3,980
	Jan. 8, 1905	8.1	5,000
	Mar. 21, 1905	7.1	3,860
	Mar. 27, 1905	7.2	3,980
	Apr. 6, 1905	8.3	5,240
1906	Dec. 4, 1905	6.3	3,030
1920	Mar. 7, 1920	a7.29	-
	Mar. 14, 1920	9.97	11,000
	Mar. 18, 1920	8.80	8,500
	Mar. 27, 1920	7.38	5,960
	May 22, 1920	6.41	4,370
	June 6, 1920	6.56	4,670
	June 18, 1920	7.18	5,620
1921	Oct. 1, 1920	6.84	4,980
	Nov. 24, 1920	6.76	4,980
	Dec. 6, 1920	6.67	4,820
	Dec. 15, 1920	9.00	8,900
	Jan. 15, 1921	6.68	4,820
	Mar. 10, 1921	6.69	4,820
1929	Feb. 8, 1929	7.81	6,110
	Mar. 7, 1929	7.13	4,990
	Mar. 15, 1929	6.16	3,710
	Apr. 17, 1929	6.64	4,260
	Apr. 22, 1929	6.79	4,540
	May 3, 1929	6.90	4,690
1930	Mar. 26, 1930	6.20	3,710
1931	Mar. 30, 1931	7.20	5,140
	June 10, 1931	6.47	4,120
1932	Mar. 29, 1932	7.47	5,620
1933	Nov. 11, 1932	8.28	7,000
1933	Mar. 22, 1933	6.60	4,260
	Apr. 5, 1933	6.46	4,120
	Apr. 14, 1933	6.18	3,710
1934	Jan. 8, 1934	7.60	4,050
	Mar. 6, 1934	11.70	9,720
	Mar. 29, 1934	7.53	3,940
	Apr. 1, 1934	7.42	3,830
	Apr. 13, 1934	9.43	6,320
	May 4, 1934	7.75	4,290
1935	Oct. 1, 1934	7.41	3,830
	Jan. 10, 1935	11.05	8,600
1936	Jan. 16, 1936	8.46	5,150
	Mar. 12, 1936	18.35	23,900
	Mar. 19, 1936	17.95	23,100
	Apr. 7, 1936	8.61	5,280
1937	Oct. 18, 1936	7.58	4,050
	Dec. 12, 1936	8.13	4,650
	Dec. 20, 1936	10.0	7,140
	Jan. 26, 1937	7.90	4,410
	Mar. 16, 1937	7.92	4,410
1938	Nov. 14, 1937	9.30	6,190
	Nov. 29, 1937	14.94	15,800
	Jan. 8, 1938	7.33	3,720
	Jan. 26, 1938	13.31	12,600
	July 24, 1938	14.65	15,300
	Sept.21, 1938	27.6	52,200
1939	Dec. 7, 1938	8.53	4,980
	Feb. 16, 1939	8.46	4,920
	Feb. 27, 1939	7.88	4,240
	Mar. 1, 1939	7.73	4,000
	Apr. 3, 1939	7.86	4,240
	Apr. 7, 1939	7.52	3,780
1940	Jan. 15, 1940	11.40	9,240
	Mar. 15, 1940	7.45	3,780
	Apr. 1, 1940	10.24	7,430

a Backwater from ice.

Peak stages and discharges of Shetucket River near Willimantic, Corn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 9, 1940	8.87	5,680	1948	Mar. 21, 1948	10.27	7,570
	Apr. 13, 1940	10.44	7,710		Apr. 2, 1948	7.80	4,240
	June 1, 1940	11.17	8,920	1949	Jan. 7, 1949	7.34	3,850
1941	Feb. 8, 1941	11.90	10,000	1950	Mar. 24, 1950	7.20	3,740
	May 10, 1941	7.24	3,700	1951	Feb. 8, 1951	9.90	7,010
1942	Mar. 4, 1942	8.03	4,480		Feb. 18, 1951	7.25	3,740
	Mar. 10, 1942	10.68	8,160		Feb. 22, 1951	7.39	3,960
	Mar. 18, 1942	7.58	4,000		Mar. 31, 1951	8.85	5,570
	Mar. 22, 1942	8.82	5,500		Apr. 4, 1951	9.06	5,950
1943	Nov. 26, 1942	7.97	4,480	1952	Nov. 4, 1951	7.50	4,070
	Dec. 2, 1942	8.02	4,480		Dec. 22, 1951	9.30	6,080
	Dec. 31, 1942	11.04	8,610		Jan. 23, 1952	7.26	3,740
	Mar. 7, 1943	7.72	4,120		Jan. 27, 1952	7.42	3,850
1944	Apr. 25, 1944	9.64	6,590		Mar. 12, 1952	9.23	5,950
	June 25, 1944	9.38	6,310		Apr. 29, 1952	7.63	4,070
	Sept.15, 1944	9.01	5,760		June 2, 1952	8.9	5,570
1945	Dec. 1, 1944	8.27	4,850	1953	Jan. 25, 1953	9.42	6,320
	Jan. 2, 1945	9.23	6,030		Mar. 16, 1953	9.42	6,320
	Feb. 27, 1945	7.46	3,890	1954	Sept.12, 1954	8.53	5,280
	Apr. 26, 1945	8.70	5,370	1955	Aug. 19, 1955	17.36	21,300
1946	Dec. 26, 1945	a7.72	-	1956	Oct. 16, 1955	11.61	9,580
	June 3, 1946	7.31	3,670	1957	Apr. 6, 1957	7.58	4,030
1947	Apr. 6, 1947	7.30	3,670	1958	Apr. 7, 1958	7.57	4,030
1948	Nov. 13, 1947	7.95	4,480	1959	Mar. 7, 1959	8.75	5,490
	Mar. 17, 1948	9.79	6,870	1960	Apr. 1, 1960	9.31	6,140

a Backwater from ice.

1230. Little River near Hanover, Conn.

Location.--Lat 41°40'18", long 72°03'10", in Windham County, on left bank 800 ft upstream from bridge on town road, 0.7 mile downstream from Peck Brook, 2.3 miles northeast of Hanover, New London County, and 6.5 miles upstream from mouth.

Drainage area.--29.8 sq mi.

Gage.--Recording. Datum of gage is 221.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 820 cfs and extended above by logarithmic plotting.

Remarks.--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)
1952	Nov. 4, 1951	3.99	515	1956	Oct. 16, 1955	6.04	1,220
	Nov. 8, 1951	4.82	760		Nov. 5, 1955	4.94	812
	Dec. 21, 1951	5.08	865	1957	Jan. 23, 1957	3.95	500
	Jan. 23, 1952	3.60	405		Apr. 6, 1957	4.10	545
	Mar. 12, 1952	4.90	795	1958	Jan. 23, 1958	3.88	485
	Apr. 28, 1952	3.67	418		Jan. 26, 1958	3.95	500
	June 2, 1952	4.60	695		Feb. 28, 1958	3.68	430
1953	Jan. 25, 1953	5.05	830		Apr. 7, 1958	3.78	455
	Feb. 16, 1953	3.98	515		Apr. 29, 1958	3.75	422
	Mar. 14, 1953	4.63	710	1959	Feb. 10, 1959	3.66	418
	Mar. 16, 1953	4.93	812		Mar. 6, 1959	6.12	1,240
	Mar. 25, 1953	4.04	530		Apr. 3, 1959	5.82	1,120
	Mar. 30, 1953	4.14	560	1960	Dec. 13, 1959	4.27	590
	Apr. 14, 1953	3.67	418		Jan. 3, 1960	4.25	590
1954	Apr. 18, 1954	4.91	795		Feb. 19, 1960	3.87	418
	Sept.12, 1954	5.31	935		Mar. 31, 1960	3.98	460
1955	Dec. 15, 1954	3.83	470		Apr. 6, 1960	3.79	405
	Dec. 19, 1954	4.21	575				
	Aug. 19, 1955	6.48	1,400				

1235. Quinebaug River at Westville, Mass.

Location.--Lat 42°04'23", long 72°04'28", on right bank 350 ft upstream from highway bridge, 0.45 mile downstream from Breakneck Brook, 0.6 mile west of Westville, Worcester County, and 1¾ miles west of Southbridge.

Drainage area.--Area, 93.8 sq mi. Area of lakes, reservoirs, and ponds, 2.27 sq mi. Length of main stream, 17.1 miles. Average tributary slope, 60.2 ft per mile. Average land slope, 436 ft per mile. Stream density, 1.46 miles per square mile. Mean altitude of basin, 825 ft.

Gage.--Recording. Datum of gage is 537.66 ft above mean sea level, unadjusted (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by mills and 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)
1938	September 1938	-	8,400	1950	Mar. 30, 1950	5.01	569
1940	Apr. 13, 1940	6.89	1,450	1951	Apr. 4, 1951	6.04	1,000
				1952	June 2-3,1952	5.66	827
1941	Feb. 8, 1941	4.98	559	1953	Mar. 17, 1953	6.55	1,220
1942	Mar. 10, 1942	5.68	820	1954	Sept.12, 1954	6.60	1,250
1943	Mar. 21, 1943	5.50	740	1955	Aug. 19, 1955	16.11	17,500
1944	Apr. 26, 1944	5.47	748				
1945	Mar. 7, 1945	a6.09	546	1956	Oct. 17, 1955	6.81	1,510
				1957	Apr. 7, 1957	5.08	668
1946	Mar. 9, 1946	5.38	712	1958	Apr. 7-8,1958	5.97	1,040
1947	Mar. 16, 1947	5.16	625	1959	Apr. 4, 1959	b6.36	1,160
1948	Mar. 22, 1948	6.93	1,500	1960	Apr. 2, 1960	6.14	1,130
1949	Jan. 7, 1949	4.80	497				

a Occurred Jan. 27, 1945; backwater from ice.
b Occurred Jan. 6, 1959; backwater from ice.

1240. Quinebaug River at Quinebaug, Conn.

Location.--Lat 42°01'20", long 71°57'22", on right bank at Quinebaug, Windham County, 500 ft upstream from bridge on State Highway 197, 0.25 mile downstream from Massachusetts-Connecticut State line, 7.8 miles upstream from French River, and at mile 46.

Drainage area.--Area, 157 sq mi. Area of lakes, reservoirs, and ponds, 3.31 sq mi. Length of main stream, 26.5 miles. Average slope above gage, 14.2 ft per mile. Average tributary slope, 56.1 ft per mile. Average land slope, 415 ft per mile. Stream density, 1.57 miles per square mile. Mean altitude of basin, 779 ft.

Gage.--Recording. Datum of gage is 341.52 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended above on basis of indirect measurements at 10,000, 14,000, and 49,300 cfs.

Remarks.--Flood records affected by regulation less than 7 percent. All stages are recorded stages but at stages above 12 ft drawdown is eliminated when water has direct access to gage well through well ventilators and door opening. 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)
1932	Apr. 1, 1932	4.90	1,260	1934	Apr. 2, 1934	5.66	1,820
1933	Nov. 11, 1932	5.14	1,400	1935	Jan. 10, 1935	6.15	2,140
	Apr. 4, 1933	5.15	1,470		June 18, 1935	4.46	1,000
	Apr. 19, 1933	5.27	1,540				
	Sept.17, 1933	5.71	1,800	1936	Jan. 16, 1936	5.15	1,510
					Mar. 12, 1936	10.80	6,850
1934	Mar. 5, 1934	6.45	2,310		Mar. 18, 1936	13.44	10,500
	Mar. 29, 1934	4.71	1,140		Apr. 6, 1936	4.63	1,240

Peak stages and discharges of Quinebaug River at Quinebaug, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Dec. 12, 1936	4.68	1,270
	Dec. 20, 1936	6.00	2,280
	Jan. 25, 1937	4.53	1,160
1938	Nov. 14, 1937	5.18	1,550
	Nov. 29, 1937	7.46	3,680
	Jan. 25, 1938	7.21	3,470
	July 23, 1938	8.01	4,390
	Sept.21, 1938	16.21	19,000
1939	Dec. 6, 1938	4.69	1,240
	Feb. 15, 1939	5.33	1,700
	Mar. 1, 1939	4.82	1,310
	Apr. 2, 1939	4.48	1,100
	Apr. 7, 1939	4.56	1,140
1940	Jan. 15, 1940	5.52	1,870
	Mar. 31, 1940	6.30	2,550
	Apr. 9, 1940	5.41	1,790
	Apr. 13, 1940	6.20	2,460
	June 1, 1940	4.96	1,480
1941	Feb. 8, 1941	4.65	1,210
1942	Mar. 3, 1942	4.60	1,240
	Mar. 9, 1942	5.78	2,110
	Mar. 17, 1942	4.80	1,380
	Mar. 22, 1942	5.10	1,580
1943	Dec. 2, 1942	4.42	1,120
	Dec. 31, 1942	4.73	1,340
	Mar. 12, 1943	4.23	1,020
	Mar. 20, 1943	4.57	1,210
1944	Mar. 24, 1944	4.11	1,000
	Apr. 17, 1944	4.14	1,040
	Apr. 25, 1944	4.75	1,460
1945	Jan. 1, 1945	4.91	1,560
	Mar. 4, 1945	4.20	1,070
	Apr. 26, 1945	4.35	1,180
	May 11, 1945	4.21	1,070
1946	Jan. 7, 1946	4.22	1,070
	Jan. 21, 1946	a6.35	-
	Feb. 4, 1946	a4.42	-
	Feb. 14, 1946	4.24	1,100
	Mar. 9, 1946	4.53	1,320
	Sept.30, 1946	5.12	1,490
1947	Mar. 15, 1947	4.36	1,180
1948	Nov. 12, 1947	4.65	1,080
	Mar. 17, 1948	5.38	1,790
	Mar. 22, 1948	6.13	2,370
	June 9, 1948	4.65	1,280
	June 14, 1948	4.47	1,150
1949	Jan. 6, 1949	4.25	1,020
1950	Mar. 29, 1950	4.23	1,020
1951	Feb. 7, 1951	6.74	2,940
	Feb. 18, 1951	4.4	1,140
	Feb. 22, 1951	4.42	1,140
	Mar. 31, 1951	4.57	1,240
	Apr. 3, 1951	5.35	1,760
1952	Nov. 3, 1951	4.94	1,240
	Nov. 7, 1951	5.53	1,620
	Dec. 21, 1951	5.20	1,460
	Jan. 23, 1952	4.47	1,140
	Jan. 28, 1952	4.90	1,460
	Mar. 12, 1952	4.70	1,330
	June 2, 1952	5.81	1,990
1953	Dec. 12, 1952	4.60	1,010
	Jan. 25, 1953	5.92	2,190
	Feb. 15, 1953	4.62	1,270
	Mar. 16, 1953	5.93	2,240
	Mar. 30, 1953	4.97	1,500
	Apr. 8, 1953	4.47	1,170
	Apr. 16, 1953	5.34	1,760
1954	Dec. 14, 1953	4.44	1,170
	Apr. 18, 1954	4.90	1,460
	Aug. 31, 1954	4.80	1,240
	Sept.11, 1954	9.22	5,990
1955	Dec. 18, 1954	4.95	1,500
	Aug. 19, 1955	18.96	49,300
1956	Oct. 17, 1955	6.68	2,830
	Nov. 5, 1955	5.83	2,090
	Apr. 6, 1956	5.15	1,530
	Apr. 17, 1956	6.16	2,400
1957	Jan. 23, 1957	4.85	1,410
	Apr. 6, 1957	4.77	1,330
1958	Dec. 26, 1957	4.35	1,040
	Jan. 27, 1958	4.60	1,210
	Apr. 7, 1958	5.57	1,970
1959	Nov. 29, 1958	4.43	1,100
	Mar. 6, 1959	6.98	3,160
	Mar. 22, 1959	4.54	1,100
	Apr. 3, 1959	6.84	2,940
1960	Oct. 24, 1959	4.40	1,070
	Dec. 12, 1959	4.69	1,290
	Jan. 4, 1960	4.95	1,490
	Mar. 31, 1960	5.82	2,170
	Sept.12, 1960	4.55	1,180

a Backwater from ice.

1245. Little River at Buffumville, Mass.

Location.--Lat 42°06'57", long 71°53'26", on left bank 0.6 mile upstream from Boston and Albany Railroad bridge, 0.6 mile upstream from mouth, 0.8 mile east of Buffumville, Worcester County, and 1.5 miles west of Oxford.

Drainage area.--Area, 27.7 sq mi. Area of lakes, reservoirs, and ponds, 1.09 sq mi. Length of main stream, 9.6 miles. Average slope above gage, 56.8 ft per mile. Average tributary slope, 76.6 ft per mile. Average land slope, 348 ft per mile. Stream density, 1.67 miles per square mile. Mean altitude of basin, 744 ft.

Gage.--Recording. Datum of gage is 457.00 ft above mean sea level, unadjusted (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by mill above station. Only annual peaks are shown.

Peak stages and discharges of Little River at Buffumville, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 13, 1940	5.35	516	1950	Apr. 21, 1950	4.06	208
1941	Feb. 9, 1941	3.85	168	1951	Feb. 8, 1951	5.37	520
1942	Mar. 10, 1942	5.22	502	1952	June 2, 1952	4.70	356
1943	Dec. 4, 1942	4.32	264	1953	Mar. 16, 1953	5.36	518
1944	Apr. 25, 1944	4.56	337	1954	Sept.12, 1954	7.33	1,220
1945	Jan. 2, 1945	4.54	331	1955	Aug. 19, 1955	15.53	8,340
1946	Mar. 8, 1946	4.55	334	1956	Apr. 17, 1956	5.41	518
1947	Mar.15 or 16, 1947	4.27	255	1957	Jan. 24, 1957	4.39	280
				1958	Apr. 7, 1958	4.90	396
1948	Mar. 22, 1948	5.08	448	1959	Apr. 7, 1959	5.04	429
1949	Jan. 7, 1949	3.93	181	1960	Apr. 6, 1960	4.84	382

1250. French River at Webster, Mass.

Location.--Lat 42°03'03", long 71°53'08", on right bank 50 ft upstream from Pleasant Street Bridge at Webster, Worcester County, and 1.1 miles upstream from Potash Brook.

Drainage area.--85.3 sq mi.

Gage.--Recording. Datum of gage is 406.74 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of flow-over-dam measurement at 14,400 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)
1936	Mar. 19, 1936	-	4,700	1954	Sept.12, 1954	11.64	2,320
				1955	Aug. 19, 1955	26.05	14,400
1949	Jan. 8, 1949	6.29	506				
1950	Mar. 30, 1950	6.67	516	1956	Oct. 17, 1955	-	1,300
				1957	Jan. 24, 1957	-	666
1951	Feb. 8, 1951	8.71	942	1958	Apr. 8, 1958	8.29	1,160
1952	June 8, 1952	8.12	841	1959	July 22, 1959	7.51	954
1953	Mar. 17, 1953	9.06	1,250	1960	Apr. 2, 1960	7.56	1,020

1255. Quinebaug River at Putnam, Conn.

Location.--Lat 41°54'34", long 71°54'48", on left bank at Putnam, Windham County, 0.15 mile downstream from Little River, 0.3 mile upstream from New York, New Haven and Hartford Railroad bridge, 2.8 miles downstream from French River, and at mile 35.7.

Drainage area.--Area, 331 sq mi. Area of lakes, reservoirs, and ponds, 9.89 sq mi. Length of main stream, 36.5 miles. Average slope above gage, 13.0 ft per mile. Average tributary slope, 51.0 ft per mile. Average land slope, 369 ft per mile. Stream density, 1.55 miles per square mile. Mean altitude of basin, 696 ft.

Gage.--Recording. Datum of gage is 216.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above on basis of flow-over-dam measurements at 17,200 and 20,900 cfs at sites 1 mile upstream and on Little River 2 miles upstream from its mouth, respectively.

Remarks.--Flood records affected less than 15 percent by regulation. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Quinebaug River at Putnam, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 26, 1930	5.04	1,330
1931	Mar. 30, 1931	8.00	3,530
	June 11, 1931	8.44	3,930
1932	Mar. 29, 1932	6.55	2,320
	Apr. 2, 1932	6.96	2,640
1933	Nov. 11, 1932	7.46	3,070
	Mar. 22, 1933	6.28	2,100
	Apr. 5, 1933	8.10	3,630
	Apr. 19, 1933	8.26	3,830
	Sept.18, 1933	8.59	4,130
1934	Jan. 8, 1934	6.80	2,480
	Mar. 6, 1934	10.87	6,830
	Mar. 29, 1934	6.43	2,170
	Apr. 13, 1934	8.33	3,830
	May 4, 1934	6.46	2,240
1935	Jan. 10, 1935	9.88	5,600
	Mar. 7, 1935	6.40	2,170
	Mar. 13, 1935	6.43	2,170
	Apr. 14, 1935	6.30	2,100
1936	Jan. 16, 1936	7.23	2,800
	Mar. 12, 1936	14.78	12,500
	Mar. 19, 1936	17.28	17,200
	Apr. 7, 1936	7.50	3,070
1937	Dec. 12, 1936	7.65	3,160
	Dec. 20, 1936	8.80	4,350
	Jan. 25, 1937	6.98	2,420
	Mar. 16, 1937	6.39	2,000
1938	Nov. 14, 1937	6.94	2,350
	Nov. 29, 1937	11.64	7,350
	Jan. 25, 1938	11.68	7,450
	June 13, 1938	7.04	2,420
	June 29, 1938	6.45	2,000
	July 24, 1938	13.51	10,000
	Sept.21, 1938	19.45	20,900
1939	Dec. 7, 1938	7.14	2,340
	Feb. 16, 1939	8.25	3,190
	Mar. 1, 1939	7.60	2,700
	Apr. 7, 1939	6.87	2,200
	Apr. 20, 1939	6.96	2,270
1940	Jan. 15, 1940	8.60	3,550
	Apr. 1, 1940	10.31	5,710
	Apr. 9, 1940	8.67	3,900
	Apr. 13, 1940	10.06	5,470
	June 1, 1940	7.31	2,630
1941	Feb. 8, 1941	7.49	2,790
1942	Mar. 3, 1942	7.00	2,420
	Mar. 9, 1942	9.19	4,430
	Mar. 18, 1942	7.43	2,710
	Mar. 22, 1942	7.74	2,950
1943	Dec. 2, 1942	6.81	2,280
	Dec. 31, 1942	8.35	3,600
	Mar. 7, 1943	6.40	2,000
	Mar. 13, 1943	6.40	2,000
	Mar. 20, 1943	6.89	2,350
1944	Apr. 25, 1944	7.73	2,950
1945	Jan. 2, 1945	7.49	2,790
	Feb. 27, 1945	6.75	2,280
	Mar. 7, 1945	6.69	2,210
1946	Jan. 8, 1946	6.76	2,280
	Feb. 14, 1946	7.03	2,420
	Mar. 9, 1946	7.09	2,490
1947	Mar. 15, 1947	6.49	2,200
1948	Mar. 18, 1948	8.95	4,340
	Mar. 22, 1948	9.92	5,290
	June 10, 1948	6.75	2,410
1949	Jan. 6, 1949	5.95	1,820
1950	Mar. 9, 1950	5.96	1,850
1951	Feb. 8, 1951	9.81	5,180
	Feb. 19, 1951	6.49	2,200
	Feb. 22, 1951	6.45	2,130
	Apr. 3, 1951	8.66	4,040
1952	Nov. 4, 1951	6.88	2,480
	Nov. 8, 1951	6.98	2,560
	Dec. 21, 1951	8.67	4,040
	Jan. 23, 1952	6.49	2,200
	Jan. 28, 1952	7.22	2,720
	Mar. 12, 1952	7.38	2,880
	June 2, 1952	8.19	3,570
1953	Jan. 25, 1953	8.86	4,240
	Feb. 16, 1953	6.64	2,270
	Mar. 16, 1953	9.84	5,180
	Mar. 30, 1953	8.02	3,390
	Apr. 8, 1953	6.76	2,410
	Apr. 17, 1953	8.35	3,750
1954	Dec. 14, 1953	6.48	2,200
	Apr. 19, 1954	7.97	3,390
	Sept.12, 1954	12.77	8,990
1955	Dec. 16, 1954	6.35	2,130
	Dec. 19, 1954	7.70	3,120
	Aug. 19, 1955	26.5	48,000
1956	Oct. 17, 1955	10.34	5,150
	Nov. 5, 1955	-	3,700
	Jan. 10, 1956	8.13	a3,480
	Apr. 7, 1956	7.69	3,120
	Apr. 17, 1956	9.06	4,440
1957	Jan. 23, 1957	7.59	3,040
	Apr. 7, 1957	6.98	2,570
1958	Jan. 27, 1958	7.60	3,040
	Apr. 8, 1958	8.59	3,940
1959	Mar. 7, 1959	10.00	5,400
	Mar. 22, 1959	6.36	2,310
	Apr. 3, 1959	10.06	5,510
1960	Dec. 13, 1959	6.85	2,420
	Jan. 3, 1960	7.20	2,720
	Feb. 19, 1960	6.44	2,130
	Mar. 31, 1960	8.55	3,940
	Apr. 6, 1960	8.20	3,750

a Result of upstream release; natural peak, 2,200 cfs (gage height, 6.50 ft).

1260. Five Mile River at Killingly, Conn.

Location.--Lat 41°50'14", long 71°53'09", at upstream left abutment of New York, New Haven and Hartford Railroad bridge, 0.5 mile upstream from Whetstone Brook, 0.6 mile south of Killingly, Windham County, and 3.2 miles upstream from mouth.

Drainage area.--Area, 58.2 sq mi. Average tributary slope, 70.9 ft per mile. Average land slope, 285 ft per mile. Stream density, 1.61 miles per square mile. Mean altitude of basin, 536 ft.

Gage.--Recording. Datum of gage is 222.22 ft above mean sea level, datum of 1929.

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

Remarks.--Flood records affected by regulation to a considerable degree by storage in Quaddick Reservoir (drainage area, 24.6 sq mi) and up to 15 percent by local regulation. Base for partial-duration series, 300 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 12, 1936	-	1,600	1947	Apr. 7, 1947	2.97	362
1938	Nov. 14, 1937	2.78	380	1948	Mar. 17, 1948	4.24	571
	Nov. 29, 1937	4.34	750		Mar. 22, 1948	5.05	832
	Jan. 26, 1938	3.94	630		Apr. 2, 1948	3.22	430
	June 15, 1938	2.90	405		May 19, 1948	2.92	378
	June 29, 1938	3.49	525				
	July 24, 1938	8.52	2,480	1949	Mar. 24, 1949	2.55	308
	Sept.21, 1938	5.22	1,060				
				1950	Mar. 24, 1950	2.92	378
1939	Dec. 7, 1938	3.51	357				
	Dec. 11, 1938	3.27	322	1951	Nov. 26, 1950	3.07	404
	Feb. 16, 1939	3.02	330		Feb. 2, 1951	2.81	359
	Mar. 1, 1939	3.42	390		Feb. 8, 1951	3.68	521
	Mar. 16, 1939	3.22	360		Apr. 4, 1951	3.71	521
	Apr. 7, 1939	3.35	382				
	Apr. 20, 1939	4.08	552	1952	Nov. 3, 1951	2.99	395
					Dec. 22, 1951	3.46	474
1940	Jan. 16, 1940	3.16	387		Jan. 28, 1952	3.28	447
	Apr. 1, 1940	4.04	543		Mar. 12, 1952	3.06	404
	Apr. 13, 1940	4.14	552		June 2, 1952	3.63	512
	Apr. 22, 1940	3.45	438				
	June 1, 1940	3.20	395	1953	Jan. 25, 1953	-	a456
					Feb. 16, 1953	-	a353
1941	Feb. 8, 1941	3.96	534		Mar. 16, 1953	4.02	582
					Mar. 31, 1953	-	a521
1942	Mar. 4, 1942	2.82	330		Apr. 8, 1953	-	a404
	Mar. 10, 1942	4.22	570		Apr. 17, 1953	-	a447
	Mar. 18, 1942	3.49	446		May 8, 1953	-	a309
	Mar. 23, 1942	3.43	438				
				1954	Apr. 18, 1954	-	a541
1943	Dec. 2, 1942	4.92	706		Sept.12, 1954	5.06	845
	Dec. 31, 1942	4.06	552				
	Mar. 7, 1943	3.37	420	1955	Dec. 19, 1954	-	a408
					Dec. 31, 1954	-	a397
1944	Apr. 25, 1944	3.92	530		Feb. 12, 1955	-	a320
	Sept.15, 1944	2.92	361		Aug. 20, 1955	5.76	1,190
1945	Jan. 2, 1945	3.21	403	1956	Oct. 17, 1955	5.27	1,020
	Feb. 27, 1945	-	400		Nov. 5, 1955	-	a685
	Mar. 7, 1945	3.52	451		Jan. 10, 1956	-	a340
					Apr. 17, 1956	-	a640
1946	Dec. 27, 1945	2.88	353				
	Jan. 8, 1946	3.07	378	1957	Jan. 24, 1957	b3.45	460
	May 29, 1946	3.02	370	1958	Jan. 27, 1958	4.60	765
	June 4, 1946	3.04	378	1959	Apr. 3, 1959	4.72	795
				1960	Apr. 1, 1960	4.10	615
1947	Mar. 15, 1947	2.62	301				

a Daily mean discharge.
b Affected by ice.

1265. Moosup River at Moosup, Conn.

Location.--Lat 41°42'37", long 71°53'11", on right bank at outlet of tailrace from Majestic Metal Specialties, Inc. (formerly Aldrich Bros.) mill at Moosup, Windham County, 100 ft upstream from New York, New Haven and Hartford Railroad bridge, 0.5 mile downstream from Ekonk Brook, and 3.8 mile upstream from mouth.

Drainage area.--Area, 83.5 sq mi. Area of lakes, reservoirs, and ponds, 0.83 sq mi. Length of main stream, 18.6 miles. Average slope above gage, 15.1 ft per mile. Average tributary slope, 68.7 ft per mile. Average land slope, 262 ft per mile. Stream density, 1.51 miles per square mile. Mean altitude of basin, 512 ft.

Gage.--Recording. Datum of gage is 196.64 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above on basis of flow-over-dam measurements at 2,820 and 4,080 cfs at site a quarter of a mile upstream.

Remarks.--Flood records affected by regulation to a considerable degree, by storage in ponds and reservoirs upstream, and by short sharp rises of local origin. Tabulated discharges prior to 1953 and after 1956 have been adjusted for above effects. All gage heights are recorded stages. 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)
1933	Oct. 19, 1932	4.65	1,140	1946	Dec. 8, 1945	4.06	825
	Nov. 7, 1932	4.21	890		Dec. 26, 1945	4.06	825
	Nov. 11, 1932	5.15	1,460		Feb. 7, 1946	4.03	825
	Mar. 9, 1933	4.41	990				
	Mar. 21, 1933	4.39	990	1947	Apr. 6, 1947	3.68	680
	Apr. 5, 1933	3.99	795				
	Apr. 14, 1933	4.50	1,050	1948	Mar. 17, 1948	5.43	1,660
					Mar. 21, 1948	4.47	1,020
1934	Jan. 8, 1934	4.00	795		May 17, 1948	4.33	975
	Mar. 5, 1934	5.32	1,560				
	Apr. 12, 1934	5.25	1,520	1949	May 23, 1949	3.95	a740
1935	Dec. 1, 1934	4.35	965	1950	Mar. 23, 1950	3.90	720
	Jan. 10, 1935	6.50	2,470				
				1951	Feb. 8, 1951	4.77	1,260
1936	Mar. 12, 1936	8.18	4,080		Apr. 3, 1951	4.86	1,320
	Mar. 18, 1936	7.49	3,370				
	Apr. 6, 1936	4.60	1,110	1952	Nov. 3, 1951	4.18	940
					Nov. 7, 1951	4.02	840
1937	Dec. 12, 1936	4.45	1,020		Dec. 21, 1951	4.75	1,260
	Dec. 20, 1936	5.15	1,460		Mar. 11, 1952	4.90	1,350
	Mar. 16, 1937	4.53	1,080				
				1953	Jan. 25, 1953	4.08	890
1938	Nov. 14, 1937	4.02	795		Feb. 16, 1953	4.28	990
	Nov. 29, 1937	5.70	1,840		Mar. 13, 1953	4.41	1,050
	Jan. 25, 1938	5.04	1,380		Mar. 16, 1953	5.13	1,500
	June 29, 1938	4.75	1,200		Mar. 30, 1953	4.33	1,020
	July 20, 1938	5.01	1,360		Apr. 14, 1953	3.97	815
	July 24, 1938	8.20	4,100		Apr. 17, 1953	4.01	840
1939	Dec. 6, 1938	4.00	795	1954	Nov. 25, 1953	4.12	920
	Apr. 7, 1939	3.98	795		Dec. 7, 1953	4.51	1,120
					Dec. 14, 1953	3.93	852
1940	Jan. 15, 1940	4.91	1,290		Mar. 20, 1954	3.98	875
	Mar. 15, 1940	4.27	915		Apr. 18, 1954	4.72	1,230
	Apr. 1, 1940	4.37	965		Sept.11, 1954	5.63	1,820
	Apr. 13, 1940	4.87	1,260				
	May 31, 1940	4.28	940	1955	Dec. 16, 1954	4.15	945
					Dec. 18, 1954	4.27	995
1941	Feb. 8, 1941	5.18	1,490		Feb. 12, 1955	4.31	1,020
					May 27, 1955	3.87	808
1942	Mar. 9, 1942	5.30	1,320		Aug. 20, 1955	5.17	1,520
1943	Dec. 2, 1942	6.17	2,230	1956	Oct. 16, 1955	7.00	2,930
	Dec. 30, 1942	5.46	1,660		Nov. 5, 1955	3.98	875
	Mar. 7, 1943	4.48	1,050		Apr. 17, 1956	4.06	898
1944	Apr. 25, 1944	4.15	875	1957	Jan. 23, 1957	4.17	945
	Sept.15, 1944	4.43	1,020		Apr. 6, 1957	4.71	1,230
1945	Nov. 30, 1944	4.32	950	1958	Jan. 23, 1958	4.48	1,120
	Jan. 2, 1945	4.33	975		Jan. 27, 1958	4.76	1,260
	Feb. 27, 1945	4.35	975				

a Unadjusted for regulation.

Peak stages and discharges of Moosup River at Moosup, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Apr. 7, 1958	4.22	970	1960	Dec. 13, 1959	4.34	1,040
	Apr. 30, 1958	4.17	945		Jan. 3, 1960	4.11	920
					Feb. 19, 1960	4.25	995
1959	Mar. 6, 1959	4.87	1,320		Apr. 1, 1960	4.05	898
	Apr. 3, 1959	4.89	1,350		Apr. 5, 1960	4.32	1,020

1270. Quinebaug River at Jewett City, Conn.

Location.--Lat 41°35'52", long 71°59'05", on left bank in rear of high school on Slater Avenue of Jewett City, New London County, 570 ft downstream from outlet of canal from Wedgewood Mills (formerly Fisk Mills, Inc.), at mouth of Pachaug River, 1,000 ft downstream from railroad bridge, and at mile 6.1.

Drainage area.--Area, 711 sq mi. Area of lakes, reservoirs, and ponds, 17.7 sq mi. Length of main stream, 68.3 miles. Average slope above gage, 10.3 ft per mile. Average tributary slope, 42.1 ft per mile. Average land slope, 328 ft per mile. Stream density, 1.56 miles per square mile. Mean altitude of basin, 553 ft.

Gage.--Recording. Datum of gage is 63.07 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above on basis of flow-over-dam measurements at 22,600, 23,600, 29,200, and 40,700 cfs.

Remarks.--Flood records affected by regulation less than 5 percent. All stages are recorded stages except those indicated but, at stages above 15.6 ft intake, drawdown is eliminated when water has direct access to gage well through well ventilators and other openings. 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)
1919	Jan. 4, 1919	11.03	4,980	1929	Feb. 8, 1929	11.64	5,650
	Mar. 2, 1919	11.82	5,890		Mar. 7, 1929	12.56	6,870
	Mar. 10, 1919	12.10	6,250		Mar. 15, 1929	10.56	4,540
	Mar. 29, 1919	10.84	4,760		Apr. 18, 1929	11.30	5,310
	Apr. 18, 1919	13.00	7,350		Apr. 22, 1929	11.61	5,650
1920	Mar. 14, 1920	16.3	12,100	1930	Feb. 14, 1930	9.18	3,210
	Mar. 18, 1920	15	10,000				
	Mar. 28, 1920	13.5	8,000	1931	Mar. 30, 1931	11.66	5,550
	June 7, 1920	10.84	4,760		June 11, 1931	11.48	5,530
	June 19, 1920	10.78	4,760				
				1932	Mar. 29, 1932	12.38	6,310
1921	Dec. 15, 1920	12.10	6,250		Sept.17, 1932	11.47	5,530
	Jan. 16, 1921	10.84	4,760				
	Mar. 10, 1921	11.03	4,980	1933	Nov. 11, 1932	12.85	6,750
					Mar. 9, 1933	10.75	4,760
1922	Mar. 8, 1922	15.95	11,600		Mar. 22, 1933	11.33	5,310
	Mar. 21, 1922	10.76	4,760		Apr. 5, 1933	11.60	5,650
	Sept. 5, 1922	12.63	6,850		Apr. 14, 1933	11.94	6,010
					Sept.18, 1933	10.90	4,870
1923	Jan. 2, 1923	10.67	4,650				
	Jan. 23, 1923	10.57	4,540	1934	Jan. 9, 1934	11.10	5,090
	Mar. 17, 1923	13.16	7,610		Mar. 6, 1934	14.80	9,800
	Mar. 25, 1923	12.30	6,490		Apr. 13, 1934	12.72	6,970
	Apr. 6, 1923	11.56	5,650		May 4, 1934	11.00	4,980
	May 1, 1923	12.65	6,850				
				1935	Jan. 11, 1935	16.98	13,100
1924	Dec. 7, 1923	12.05	6,130				
	Jan. 17, 1924	10.90	4,870	1936	Jan. 16, 1936	11.08	5,090
	Apr. 8, 1924	14.83	9,800		Mar. 13, 1936	21.79	23,000
					Mar. 19, 1936	24.0	29,200
1925	Feb. 13, 1925	12.84	7,090		Mar. 28, 1936	12.01	6,130
					Apr. 7, 1936	12.49	6,760
1926	Feb. 26, 1926	10.52	4,540				
	Mar. 8, 1926	11.67	5,770	1937	Dec. 12, 1936	11.91	6,010
					Dec. 21, 1936	13.81	8,520
1927	Mar. 22, 1927	9.33	3,320		Jan. 26, 1937	11.17	5,200
					Mar. 17, 1937	11.03	4,980
1928	Nov. 5, 1927	16.6	12,500				
	Feb. 24, 1928	10.65	4,540	1938	Nov. 15, 1937	10.61	4,540

Peak stages and discharges of Quinebaug River at Jewett City, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Nov. 30, 1937	16.08	12,100	1952	Nov. 4, 1951	11.53	5,730
	Jan. 26, 1938	15.51	11,100		Nov. 8, 1951	11.29	5,490
	June 29, 1938	11.45	5,420		Dec. 22, 1951	13.35	8,080
	July 24, 1938	22.5	25,000		Jan. 24, 1952	10.66	4,830
	Sept.22, 1938	21.7	22,800		Jan. 28, 1952	11.36	5,160
					Mar. 12, 1952	12.70	7,170
1939	Dec. 7, 1938	11.40	5,420		Apr. 29, 1952	10.38	4,500
	Feb. 16, 1939	11.52	5,530		June 2, 1952	12.20	6,570
	Mar. 1, 1939	11.73	5,770				
	Apr. 7, 1939	11.23	5,200	1953	Jan. 25, 1953	12.66	7,170
	Apr. 20, 1939	11.63	5,650		Feb. 16, 1953	11.30	5,490
					Mar. 17, 1953	14.88	10,200
1940	Jan. 16, 1940	13.00	7,410		Mar. 25, 1953	11.60	5,850
	Mar. 16, 1940	10.87	4,870		Mar. 31, 1953	12.85	7,300
	Apr. 1, 1940	13.70	8,380		Apr. 8, 1953	11.27	5,490
	Apr. 14, 1940	14.42	9,400		Apr. 17, 1953	12.34	6,690
	June 1, 1940	11.59	5,650				
				1954	Dec. 7, 1953	10.76	4,940
1941	Feb. 8, 1941	12.84	7,150		Dec. 15, 1953	11.14	5,270
					Apr. 18, 1954	13.10	7,690
1942	Mar. 10, 1942	14.03	8,800		Sept.12, 1954	16.41	12,600
	Mar. 18, 1942	11.53	5,530				
	Mar. 23, 1942	12.43	6,630	1955	Dec. 15, 1954	10.75	4,940
					Dec. 19, 1954	12.31	6,690
1943	Dec. 2, 1942	13.92	8,660		Dec. 31, 1954	10.38	4,500
	Dec. 31, 1942	13.87	8,660		Aug. 20, 1955	29.0	40,700
	Mar. 7, 1943	12.16	6,370				
	Mar. 20, 1943	10.57	4,540	1956	Oct. 17, 1955	16.45	12,700
					Nov. 6, 1955	13.79	8,620
1944	Apr. 25, 1944	12.20	6,370		Jan. 10, 1956	10.81	4,940
					Apr. 8, 1956	11.66	5,970
1945	Jan. 2, 1945	11.94	6,010		Apr. 17, 1956	13.03	7,560
	Feb. 28, 1945	11.12	5,090				
	Mar. 7, 1945	11.26	5,310	1957	Jan. 24, 1957	10.78	4,940
					Apr. 6, 1957	12.20	6,570
1946	Jan. 8, 1946	10.88	4,870				
				1958	Jan. 28, 1958	12.47	6,680
1947	Apr. 7, 1947	10.28	4,230		Apr. 8, 1958	12.96	7,350
					Apr. 30, 1958	10.90	5,050
1948	Mar. 18, 1948	14.38	9,460		May 8, 1958	10.50	4,610
	Apr. 2, 1948	11.16	5,420				
	May 19, 1948	10.82	4,980	1959	Mar. 7, 1959	14.34	9,320
					Apr. 3, 1959	14.74	9,900
1949	Jan. 7, 1949	9.94	4,050				
				1960	Dec. 13, 1959	12.00	6,330
1950	Mar. 24, 1950	10.11	4,250		Jan. 4, 1960	11.65	5,850
					Feb. 20, 1960	11.40	5,610
1951	Feb. 8, 1951	13.75	8,620		Apr. 1, 1960	12.57	7,050
	Feb. 19, 1951	10.87	5,090		Apr. 6, 1960	12.78	7,300
	Feb. 23, 1951	10.52	4,650				
	Apr. 4, 1951	13.97	8,900				

1275. Yantic River at Yantic, Conn.

Location.--Lat 41°33'31", long 72°07'19", on left bank at Yantic, New London County, 700 ft downstream from stone-arch highway bridge, 1 mile downstream from Susquetonscut Brook, and 4.8 mile upstream from mouth.

Drainage area.--Area, 88.6 sq mi. Area of lakes, reservoirs, and ponds, 1.94 sq mi. Length of main stream, 16.5 miles. Average slope above gage, 25.1 ft per mile. Average tributary slope, 64.0 ft per mile. Average land slope, 305 ft per mile. Stream density, 1.67 miles per square mile. Mean altitude of basin, 406 ft.

Gage.--Recording. Datum of gage is 94.46 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs, at 6,300 cfs Mar. 12, 1936, by flow-over-dam measurement at site 2½ miles upstream, and at 13,500 cfs Sept. 21, 1938, by flow-over-dam measurements at sites 2½ miles upstream and 3 miles downstream, adjusted for inflow from intervening area.

Remarks.--Flood records affected less than 10 percent by regulation. All stages are recorded stages unless noted but above stage of 8.8 ft intake drawdown is eliminated when water has access to gage well through ventilators. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges of Yantic River at Yantic, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 8, 1931	7.97	2,320
	Mar. 30, 1931	5.76	1,020
1932	Mar. 28, 1932	8.12	2,400
1933	Oct. 18, 1932	6.00	1,100
	Nov. 7, 1932	6.02	1,100
	Nov. 10, 1932	8.30	2,560
	Mar. 8, 1933	6.13	1,140
	Mar. 21, 1933	6.70	1,440
1934	Jan. 8, 1934	-	1,000
	Mar. 5 or 6, 1934	a10.83	-
	Mar. 5 or 6, 1934	-	2,500
	Apr. 1, 1934	7.24	1,740
	Apr. 12, 1934	6.65	1,390
	Apr. 17, 1934	6.01	1,100
1935	Dec. 1, 1934	6.78	1,500
	Jan. 10, 1935	8.90	3,100
	Feb. 16, 1935	a6.84	-
1936	Jan. 15, 1936	7.32	1,810
	Mar. 12, 1936	11.32	6,300
	Mar. 18, 1936	9.71	3,950
	Mar. 21, 1936	6.55	1,390
	Apr. 6, 1936	8.4	2,650
1937	Dec. 12, 1936	6.75	1,500
	Dec. 20, 1936	8.4	2,600
	Mar. 16, 1937	7.48	2,010
	Apr. 6, 1937	6.10	1,270
1938	Nov. 14, 1937	6.07	1,270
	Jan. 7, 1938	6.30	1,370
	Jan. 25, 1938	8.07	3,230
	June 29, 1938	5.80	1,460
	July 24, 1938	11.47	6,980
	Sept.21, 1938	14.66	13,500
1939	Dec. 6, 1938	7.14	1,190
	Feb. 26, 1939	6.72	1,040
	Apr. 7, 1939	7.10	1,240
1940	Jan. 15, 1940	7.75	2,210
	Mar. 15, 1940	8.22	2,500
	Apr. 13, 1940	7.11	1,770
	June 1, 1940	6.61	1,520
1941	Nov. 15, 1940	5.60	1,070
	Feb. 8, 1941	9.34	3,570
1942	Mar. 3, 1942	5.87	1,190
	Mar. 9, 1942	8.06	2,430
	Mar. 22, 1942	6.62	1,520
1943	Dec. 2, 1942	7.27	1,890
	Dec. 30, 1942	8.76	3,050
	Mar. 7, 1943	7.83	2,210
1944	Feb. 15, 1944	6.57	1,520
	Mar. 13, 1944	6.09	1,270
	Mar. 24, 1944	5.83	1,150
	Apr. 25, 1944	6.96	1,720
1945	Nov. 30, 1944	6.76	1,620
	Jan. 2, 1945	6.90	1,670
	Feb. 27, 1945	6.80	1,620
	Apr. 26, 1945	5.47	1,010
1946	Dec. 26, 1945	a7.93	-
1946	Dec. 26, 1945	6.24	1,140
	Feb. 7, 1946	7.30	1,560
1947	Apr. 6, 1947	5.25	785
1948	Nov. 12, 1947	6.19	1,080
	Mar. 17, 1948	8.07	1,790
	Mar. 20, 1948	6.45	1,150
	Apr. 1, 1948	6.46	1,180
1949	Dec. 31, 1948	6.56	1,520
	Jan. 6, 1949	5.90	1,190
	Apr. 6, 1949	5.60	1,070
1950	Mar. 23, 1950	7.00	1,710
1951	Feb. 2, 1951	5.59	1,020
	Feb. 8, 1951	7.81	2,210
	Mar. 20, 1951	5.71	1,060
	Mar. 31, 1951	6.61	1,500
	Apr. 3, 1951	8.20	2,500
1952	Dec. 21, 1951	7.8	2,200
	Jan. 23, 1952	6.57	1,500
	Jan. 26, 1952	6.69	1,550
	Mar. 11, 1952	8.58	2,830
	June 2, 1952	6.71	1,550
1953	Jan. 18, 1953	6.29	1,350
	Jan. 25, 1953	7.22	1,830
	Feb. 15, 1953	6.77	1,600
	Mar. 4, 1953	6.05	1,200
	Mar. 13, 1953	7.86	2,280
	Mar. 16, 1953	7.67	2,140
	Mar. 25, 1953	6.30	1,350
	Mar. 27, 1953	6.10	1,250
	Mar. 30, 1953	7.10	1,770
	Apr. 14, 1953	6.10	1,250
	Apr. 16, 1953	5.85	1,100
1954	Dec. 7, 1953	6.05	1,200
	Apr. 18, 1954	7.73	2,140
	Sept.11, 1954	8.70	2,920
1955	Dec. 15, 1954	7.36	1,950
	Dec. 18, 1954	7.85	2,110
	Feb. 12, 1955	5.69	1,000
	Mar. 23, 1955	5.96	1,120
	Aug. 19, 1955	7.53	1,920
1956	Oct. 16, 1955	11.58	6,760
	Oct. 31, 1955	5.82	1,050
	Nov. 5, 1955	8.45	2,560
1957	Jan. 23, 1957	6.86	1,540
	Apr. 6, 1957	6.76	1,490
1958	Dec. 26, 1957	5.67	1,000
	Jan. 23, 1958	7.10	1,660
	Jan. 26, 1958	6.69	1,440
	Feb. 28, 1958	6.32	1,240
	Apr. 7, 1958	6.13	1,160
1959	Oct. 23, 1958	6.00	1,120
	Mar. 6, 1959	9.00	3,130
	Apr. 3, 1959	8.70	2,830
1960	Dec. 13, 1959	7.96	2,250
	Jan. 3, 1960	7.36	1,840
	Feb. 19, 1960	6.96	1,600
	Feb. 26, 1960	5.68	1,000
	Mar. 31, 1960	6.40	1,290
	Apr. 4, 1960	5.78	1,040

a Backwater from ice.

1285. Connecticut River at First Connecticut Lake, near Pittsburg, N.H.

Location.--Lat 45°05'15", long 71°17'35", on right bank a quarter of a mile downstream from dam at First Connecticut Lake and 6 miles northeast of Pittsburg, Coos County.

Drainage area.--83.0 sq mi.

Gage.--Discharge computed from flow through gates at dam a quarter of a mile upstream prior to Jan. 1, 1918. Nonrecording gage Jan. 1 to July 29, 1918; recording gage thereafter. Altitude of gage is 1,560 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above on basis of flow-over-dam measurement at 6,700 cfs.

Remarks.--Flow regulated by First Connecticut and Second Connecticut Lakes (combined usable capacity, 3,836,000,000 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)
1918	Oct. 18, 1917	-	586	1939	Oct. 22, 1938	3.20	700
1919	July 5, 1919	-	1,090	1940	Nov. 1, 1939	4.03	1,580
1920	May 31, 1920	3.55	1,140				
				1941	Sept.18, 1941	4.57	2,200
1921	Apr. 9, 1921	4.02	1,810	1942	June 15, 1942	4.32	1,880
1922	June 20, 1922	3.91	1,640	1943	June 16, 1943	6.25	7,200
1923	Apr. 27, 1923	3.38	940	1944	Sept.10-11,1944	3.52	808
1924	June 4, 1924	3.18	714	1945	May 19-20,1945	3.54	826
1925	May 5, 1925	a6.35	-				
	May 13, 1925	4.13	1,990	1946	Oct.2-3, 1945	3.84	1,160
				1947	June 3, 1947	4.53	2,080
1926	Mar. 14, 1926	3.73	1,370	1948	May 18-20,1948	3.60	920
1927	Jan. 27, 1927	3.16	737	1949	May 3-4, 1949	3.65	970
1928	Feb. 2, 1928	3.88	1,580	1950	Mar.16-17,1950	3.95	1,280
1929	May 9, 1929	3.71	1,340				
1930	May 27, 1930	4.02	1,810	1951	June 16-17,1951	3.41	749
				1952	Feb. 18, 1952	3.24	602
1931	Nov. 16, 1930	3.92	1,430	1953	May 8, 1953	3.30	650
1932	Feb. 5, 1932	3.90	1,410	1954	June 7-8,1954	3.66	980
1933	Nov. 29, 1932	3.48	970	1955	Oct. 4, 1954	3.68	1,000
1934	May 24, 1934	3.65	1,140				
1935	Nov. 24, 1934	3.76	1,260	1956	Mar. 1, 1956	3.13	563
				1957	Dec. 31, 1956	3.11	547
1936	Sept.13, 1936	3.76	1,260	1958	Jan. 31, 1958	3.44	782
1937	Oct. 18,24,1936	3.74	1,230	1959	June 29, 1959	3.82	1,140
1938	Sept.21, 1938	4.09	1,630	1960	Nov. 28, 1959	3.80	1,120

a Backwater from log jam.

1295. Connecticut River at North Stratford, N.H.

Location.--Lat 44°44'55", long 71°37'55", on left bank at North Stratford, Coos County, 400 ft downstream from Nulhegan River.

Drainage area.--799 sq mi.

Gage.--Recording. Datum of gage is 880.17 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended above.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes and Lake Francis (combined usable capacity, 8,162,000,000 cu ft). 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)
1931	Apr. 12, 1931	9.62	12,800	1934	Apr. 25, 1934	12.73	21,700
1932	Apr. 10, 1932	8.84	10,200	1935	Jan. 10, 1935	a11.26	-
					Apr. 28, 1935	9.13	11,000
1933	Apr. 18, 1933	12.39	21,500				
	May 4, 1933	10.79	15,900	1936	Mar. 13, 1936	a16.66	-
					Mar. 14, 1936	14.15	26,900
1934	Apr. 13, 1934	9.97	13,400		Mar. 19, 1936	14.64	28,400
	Apr. 18, 1934	10.94	16,100		Mar. 22, 1936	10.79	15,800

a Backwater from ice.

Peak stages and discharges of Connecticut River at North Stratford, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 1, 1936	9.24	11,200	1947	Jan. 31, 1947	a11.03	-
					Apr. 13, 1947	10.00	13,500
1937	Feb. 15, 1937	a9.98	-		May 7, 1947	9.05	10,700
	Apr. 30, 1937	10.10	13,700		June 4, 1947	9.88	13,100
	May 15, 1937	9.00	10,700				
				1948	Mar. 28, 1948	8.93	10,400
1938	Oct. 21, 1937	8.96	10,400		Apr.1-2, 1948	8.88	10,300
	Mar. 24, 1938	a13.30	-				
	Apr. 15, 1938	8.92	10,200	1949	Mar. 28, 1949	9.21	11,100
	Sept.22, 1938	9.81	12,800				
				1950	Apr. 21, 1950	10.46	14,900
1939	Dec. 6, 1938	a9.98	-				
	Apr. 22, 1939	a10.41	-	1951	Nov. 26, 1950	9.32	11,500
	Apr. 23, 1939	9.85	12,800				
	Apr. 29, 1939	9.02	10,400	1952	Apr. 20, 1952	9.41	11,700
	May 8, 1939	10.13	13,700				
				1953	Mar. 27, 1953	11.10	16,800
1940	May 3, 1940	12.00	19,500				
				1954	Apr. 23, 1954	12.27	20,400
1941	Apr. 16, 1941	9.59	12,200				
				1955	Apr. 15, 1955	11.74	18,700
1942	Apr. 26, 1942	10.63	15,300				
	June 16, 1942	10.33	14,400	1956	May 1, 1956	8.99	10,600
1943	Mar. 27, 1943	a12.14	-	1957	Jan. 23, 1957	a10.08	-
	Apr. 26, 1943	8.77	10,100		Apr. 21, 1957	8.58	9,550
	May 12, 1943	9.90	13,200				
	June 16, 1943	14.67	28,700	1958	Dec. 21, 1957	9.88	13,100
					Apr. 23, 1958	10.88	16,100
1944	May 5, 1944	9.34	11,500				
				1959	Apr. 3, 1959	a16.11	-
1945	Mar. 29, 1945	10.97	16,400		Apr. 19, 1959	7.74	7,680
	Apr. 3, 1945	8.97	10,500				
	July 16, 1945	8.80	10,100	1960	Nov. 29, 1959	10.54	15,100
					Apr. 5, 1960	9.19	11,100
1946	Oct. 2, 1945	8.69	9,820		Apr. 19, 1960	12.07	19,700
	Mar. 9, 1946	a12.80	-				

a Backwater from ice.

1300. Upper Ammonoosuc River near Groveton, N.H.

Location.--Lat 44°37'30", long 71°28'10", on left bank 75 ft upstream from highway bridge, 0.2 mile downstream from Nash Stream, and 2¾ miles northeast of Groveton, Coos County.

Drainage area.--Area, 232 sq mi. Area of lakes, reservoirs, and ponds, 1.68 sq mi. Length of main stream, 32.2 miles. Average slope above gage, 28.6 ft per mile.

Gage.--Recording. Altitude of gage is 920 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Some regulation by pond on Nash Stream. Small diversion above station for municipal supply of Berlin. Base for partial-duration series, 2,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	10.6	-	1946	Mar. 15, 1946	a7.10	-
					Mar. 30, 1946	6.10	2,740
1941	Apr. 16, 1941	7.38	5,040				
				1947	Apr. 13, 1947	7.86	6,080
1942	Apr. 18, 1942	6.63	3,740		May 6, 1947	6.61	3,570
	Apr. 26, 1942	7.46	5,220		June 3, 1947	8.49	7,580
1943	Apr. 26, 1943	6.48	3,400	1948	Mar. 22, 1948	a7.15	-
	May 8, 1943	7.03	4,370		Mar. 28, 1948	6.68	3,690
	May 13, 1943	7.27	4,740		Apr. 2, 1948	6.61	3,570
1944	Nov. 9, 1943	6.98	4,240	1949	Dec. 31, 1948	a7.21	-
	May 5, 1944	7.98	6,350		Mar. 29, 1949	6.60	3,550
1945	Mar. 30, 1945	8.18	6,830	1950	Apr. 5, 1950	a8.05	-

a Backwater from ice.

Peak stages and discharges of Upper Ammonoosuc River near Groveton, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 7, 1950	6.90	4,090	1956	Apr. 30-May 1, 1956	6.77	3,800
	Apr. 21, 1950	7.24	4,750		May 13, 1956	6.47	3,270
1951	Nov. 27, 1950	7.58	5,460				
	Apr. 11, 1951	6.45	3,300	1957	Jan. 24, 1957	a8.23	-
	Apr. 27, 1951	7.13	4,530		Apr. 22, 1957	6.34	3,070
1952	Apr. 21, 1952	7.32	4,910	1958	Dec. 22, 1957	7.53	5,350
	Apr. 24, 1952	6.96	4,200		Apr. 22, 1958	8.06	6,540
	May 13, 1952	6.40	3,210		Apr. 30, 1958	6.25	2,940
	June 2, 1952	6.45	3,300		May 12, 1958	6.65	3,580
1953	Mar. 27, 1953	9.44	9,950	1959	Apr. 4, 1959	a6.55	-
	Mar. 31, 1953	7.01	4,270		Apr. 19, 1959	5.96	2,560
1954	Apr. 23, 1954	9.01	8,880	1960	Oct. 25, 1959	6.42	3,190
	May 10, 1954	6.59	3,460		Nov. 29, 1959	7.10	4,450
	Sept.12, 1954	8.60	7,850		Mar. 31, 1960	a10.14	-
					Apr. 5, 1960	6.32	3,040
1955	Apr. 15, 1955	7.93	6,240		Apr. 18, 1960	8.00	6,400

a Backwater from ice.

1315. Connecticut River near Dalton, N.H.
(Published as "at Waterford, Vt." 1927-35)

Location.--Lat 44°24'35", long 71°43'00", on left bank 250 ft upstream from highway bridge, 1,200 ft downstream from dam of Gilman Paper Co., and 1¼ miles downstream from Dalton, Coos County.

Drainage area.--Area, 1,514 sq mi. Area of lakes, reservoirs, and ponds, 13.6 sq mi. Length of main stream, 102 miles. Average slope above gage, 10.5 ft per mile.

Gage.--Nonrecording prior to June 30, 1937; recording thereafter. At site 10½ miles downstream at mean sea level prior to Oct. 1, 1935. At site 250 ft downstream at present datum Jan. 1, 1935, to June 29, 1937. Datum of gage is 799.89 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, and other reservoirs. These reservoirs have a combined usable capacity of about 8 1/3 billion cubic feet. Base for partial-duration series, 16,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Apr. 9, 1928	667.50	44,300	1940	May 4, 1940	21.10	31,300
1929	Apr. 10, 1929	664.15	28,200	1941	Apr. 17, 1941	17.45	19,300
1930	Apr. 9, 1930	661.85	17,100	1942	Apr. 19, 1942	16.55	17,400
1931	Apr. 13, 1931	661.55	15,900		Apr. 27, 1942	18.64	23,100
1932	Apr. 13, 1932	662.45	20,200	1943	May 10, 1943	16.46	17,100
					May 14, 1943	17.55	20,200
1933	Apr. 20, 1933	665.80	35,800		June 18, 1943	18.05	21,400
1934	Apr. 26, 1934	664.95	31,500	1944	May 7, 1944	17.96	20,400
1935	Jan. 18, 1935	a669.30	-	1945	Mar. 31, 1945	19.79	24,900
	Apr. 30, 1935	663.00	22,500	1946	Oct. 2, 1945	15.87	14,100
1936	Mar. 20, 1936	25.6	48,300	1947	Apr. 14, 1947	18.06	20,700
					May 8, 1947	16.97	17,600
1937	May 1, 1937	17.3	19,600		June 4, 1947	18.45	21,800
1938	Sept.22, 1938	17.53	19,600	1948	Apr. 3, 1948	16.64	16,800
1939	Apr. 23, 1939	18.82	23,600	1949	Mar. 29, 1949	16.33	16,000
	May 10, 1939	18.36	22,300				

a Backwater from ice.

Peak stages and discharges of Connecticut River near Dalton, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 22, 1950	18.27	21,300	1956	May 1, 1956	17.11	18,000
1951	Nov. 26, 1950	17.24	18,400	1957	Apr. 22, 1957	15.50	13,800
1952	Apr. 22, 1952	17.22	18,300	1958	Dec. 22, 1957	17.91	20,200
					Apr. 23, 1958	20.63	28,600
1953	Mar. 28, 1953	22.38	34,600				
				1959	Apr. 7, 1959	15.85	14,700
1954	Apr. 24, 1954	22.25	34,100				
	Sept.13, 1954	16.94	17,500	1960	Nov. 30, 1959	-	18,400
					Apr. 6, 1960	18.07	20,700
1955	Apr. 17, 1955	20.19	27,100		Apr. 20, 1960	20.26	27,400

1330. East Branch Passumpsic River near East Haven, Vt.
(Published as Passumpsic River near East Haven prior to October 1951)

Location.--Lat 44°38'02", long 71°53'53", on right bank in Burke, Caledonia County, 2.1 miles south of East Haven, Essex County.

Drainage area.--Area, 53.8 sq mi. Area of lakes, reservoirs, and ponds, 0.37 sq mi. Length of main stream, 9.7 sq mi. Average slope above gage, 60.5 ft per mile.

Gage.--Recording. Datum of gage is 945.88 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements. Very minor changes in relation occur.

Historical data.--Maximum stage known, about 12.6 ft sometime in November 1927, from information by local resident.

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)
1928	November 1927	12.6	-	1951	Nov. 26, 1950	3.81	805
					Dec. 5, 1950	5.49	1,720
1940	May 3, 1940	5.25	1,610		Apr. 26, 1951	4.65	1,220
	May 17, 1940	4.00	900				
	May 21, 1940	4.01	900	1952	Apr. 20, 1952	4.41	1,100
	May 28, 1940	6.20	2,180		June 1, 1952	5.60	1,790
1941	Dec. 29, 1940	a4.97	-	1953	Mar. 25, 1953	4.32	1,060
	Apr. 15, 1941	4.17	975		Mar. 27, 1953	4.91	1,380
1942	Apr. 15, 1942	4.10	950	1954	Apr. 18, 1954	-	b1,000
	Apr. 25, 1942	4.57	1,180		Apr. 23, 1954	-	b2,000
	May 17, 1942	3.88	850		May 9, 1954	4.50	1,150
	June 15, 1942	5.26	1,610		Aug. 31, 1954	3.83	815
1943	Apr. 25, 1943	3.87	825	1955	Oct. 3, 1954	3.93	865
	May 7, 1943	3.90	850		Apr. 15, 1955	5.25	1,440
	May 12, 1943	4.63	1,220		Apr. 19, 1955	5.05	1,310
	June 16, 1943	3.92	850				
				1956	Apr. 30, 1956	4.31	920
1944	Nov. 9, 1943	3.98	890				
	May 5, 1944	4.12	960	1957	Jan. 23, 1957	a5.95	-
					Apr. 21, 1957	3.96	764
1945	Jan. 3, 1945	a5.61	-				
	Mar. 29, 1945	4.94	1,390	1958	Dec. 21, 1957	4.63	1,080
	Apr. 3, 1945	4.50	1,150		Apr. 18, 1958	4.36	942
	July 15, 1945	4.37	1,080		Apr. 22, 1958	4.96	1,260
	Sept.19, 1945	4.20	1,000				
				1959	Apr. 19, 1959	3.78	692
1946	Oct. 2, 1945	4.26	1,030				
				1960	Oct. 24, 1959	4.97	1,260
1949	June 20, 1949	3.85	825		Nov. 28, 1959	6.13	2,080
					Apr. 18, 1960	6.28	2,200
1950	Dec. 22, 1949	a4.39	-		May 16, 1960	4.92	1,230
	Jan. 23, 1950	a4.31	-				
	Apr. 20, 1950	5.90	1,970				

a Backwater from ice.
b About.

1335. Passumpsic River at Pierce's Mills near St. Johnsbury, Vt.

Location.--Lat 44°29'10", long 72°00'35", on right bank at suspension bridge 200 ft below Pierce Dam, 2 miles below mouth of Sheldon Brook, 4.6 miles north of St. Johnsbury, Caledonia County, and 5.2 miles above mouth of Moose River.

Drainage area.--237 sq mi.

Gage.--Nonrecording. Altitude of gage is 685 ft (from topographic map).

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)
1910	May 26, 1910	9.8	3,990	1915	Apr. 12, 1915	10.1	4,160
1911	Apr. 29, 1911	7.8	2,890	1916	Mar. 31, 1916	7.9	3,210
1912	Apr. 8, 1912	12.5	5,600	1917	Nov. 30, 1916	8.5	3,280
1913	Mar. 27, 1913	14.8	7,070	1918	Apr. 3, 1918	7.5	2,720
1914	Apr. 21, 1914	11.2	4,820	1919	Oct. 31, 1918	9.5	3,820

1345. Moose River at Victory, Vt.

Location.--Lat 44°30'40", long 71°50'15", on right bank at Victory, Essex County, 2.7 miles upstream from highway bridge.

Drainage area.--75.2 sq mi.

Gage.--Recording. Datum of gage is 1,103.99 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs; extended above by logarithmic plotting. Minor changes in relation occur.

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)
1947	Apr. 13, 1947	9.66	2,080	1955	Apr. 12, 1955	7.68	1,060
	June 3, 1947	9.43	1,940		Apr. 15, 1955	10.22	2,620
					Apr. 20, 1955	9.16	1,860
1948	Mar. 28, 1948	8.99	1,670				
	Apr. 2, 1948	8.99	1,670	1956	Apr. 30, 1956	8.94	1,710
					May 4, 1956	7.83	1,130
1949	Mar. 28, 1949	8.65	1,480		May 14, 1956	7.68	1,060
					May 28, 1956	7.83	1,130
1950	Apr. 21, 1950	10.89	2,940				
				1957	Nov. 22, 1956	7.64	1,040
1951	Dec. 5, 1950	8.80	1,560		Apr. 22, 1957	8.32	1,370
	Apr. 4, 1951	7.99	1,170				
	Apr. 11, 1951	7.77	1,070	1958	Dec. 21, 1957	9.62	2,180
	Apr. 26-27, 1951	8.65	1,480		Apr. 19, 1958	8.84	1,650
					Apr. 22, 1958	9.12	1,830
1952	Apr. 15, 1952	8.15	1,240		June 2, 1958	7.86	1,140
	Apr. 21, 1952	9.33	1,880				
	June 2, 1952	10.15	2,380	1959	Apr. 4, 1959	7.90	1,160
					Apr. 20, 1959	7.76	1,100
1953	Mar. 27, 1953	10.35	2,720				
	Mar. 31, 1953	8.03	1,220	1960	Oct. 25, 1959	8.61	1,520
					Nov. 26, 1959	7.77	1,100
1954	Apr. 11, 1954	-	1,500		Nov. 29, 1959	10.21	2,780
	Apr. 18, 1954	-	1,900		Apr. 1, 1960	8.52	1,590
	Apr. 23, 1954	10.53	2,860		Apr. 5, 1960	8.30	1,460
	May 10, 1954	8.14	1,280		Apr. 19, 1960	10.08	2,670
	Sept. 12, 1954	7.60	1,020		May 16, 1960	8.55	1,610
1955	Nov. 22, 1954	7.70	1,070				

1350. Moose River at St. Johnsbury, Vt.

Location.--Lat 44°25'20", long 72°00'05", on left bank at St. Johnsbury, Caledonia County, half a mile upstream from mouth.

Drainage area.--128 sq mi. Area of lakes, reservoirs, and ponds, 0.31 sq mi. Length of main stream, 32.7 miles. Average slope above gage, 40.4 ft per mile.

Gage.--Nonrecording at site a quarter of a mile upstream at different datum prior to Nov. 16, 1934; recording at present site and datum thereafter. Altitude of gage is 585 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,400 cfs and extended above. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 1,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 30, 1929	8.3	5,800
1930	Apr. 8, 1930	6.1	1,450
1931	Apr. 11, 1931	5.15	2,360
1932	Apr. 12, 1932	6.6	1,900
1933	Apr. 18, 1933	7.9	4,670
1934	Apr. 25, 1934	8.25	5,660
1935	Jan. 10, 1935	-	4,000
	May 1, 1935	4.58	3,040
1936	Nov. 13, 1935	4.40	2,350
	Mar. 12, 1936	5.14	4,040
	Mar. 19, 1936	5.71	4,780
	Apr. 7, 1936	4.33	1,900
	May 1, 1936	4.35	2,020
1937	Apr. 20, 1937	4.30	1,700
	Apr.29,30,1937	4.35	2,020
	May 16, 1937	4.40	2,350
	May 21, 1937	4.32	1,830
1938	Sept.21, 1938	4.25	2,030
1939	Dec. 7, 1938	4.20	1,800
	Apr.23,24,1939	4.25	2,030
	May 8, 1939	4.20	1,800
1940	May 4, 1940	4.49	2,970
	May 21,22,1940	4.23	1,940
1941	Apr. 17, 1941	4.14	1,520
	Mar. 9, 1941	a6.42	-
1942	Apr. 17, 1942	3.97	2,030
	Apr. 26, 1942	3.98	2,080
	June 15, 1942	4.02	2,250
1943	Apr. 26, 1943	3.92	1,920
	May 13, 1943	3.89	1,810
	June 17, 1943	3.93	1,960
1944	Nov. 10, 1943	3.94	1,990
	May 5, 1944	3.89	1,810
1945	Mar. 31, 1945	3.93	2,020
1946	Oct. 3, 1945	3.88	1,790
	Mar. 30, 1946	3.93	2,020
1947	Apr. 13, 1947	4.26	3,160
1947	May 8, 1947	4.00	1,800
	June 4, 1947	4.28	3,270
1948	Mar. 29, 1948	4.08	2,220
	Apr. 2, 1948	4.13	2,490
1949	Mar. 29, 1949	4.12	2,430
1950	Apr. 21, 1950	4.69	4,700
1951	Mar. 31, 1951	4.07	1,850
	Apr. 3, 1951	4.13	2,130
	Apr. 12, 1951	4.10	1,990
	Apr. 27, 1951	4.08	1,900
1952	Apr. 6, 1952	4.09	1,940
	Apr. 11, 1952	4.10	1,990
	Apr. 15, 1952	4.11	2,040
	Apr. 21, 1952	4.15	2,220
	June 2, 1952	4.35	3,140
1953	Mar. 28, 1953	4.27	4,400
1954	Apr. 11, 1954	3.93	2,280
	Apr. 19, 1954	4.03	2,880
	Apr. 24, 1954	4.23	4,140
	May 11, 1954	3.86	1,850
1955	Nov. 22, 1954	3.88	1,970
	Apr. 6, 1955	3.89	2,040
	Apr. 11, 1955	3.89	2,040
	Apr. 16, 1955	4.17	3,760
	Apr. 20, 1955	4.06	3,040
1956	Apr. 30, 1956	4.09	2,780
	May 14, 1956	-	2,100
	May 28, 1956	-	2,200
1957	Apr. 22, 1957	3.84	1,690
1958	Dec. 22, 1957	4.01	2,720
	Jan. 13, 1958	a5.33	-
	Apr. 19, 1958	4.08	3,170
	Apr. 22, 1958	4.09	3,240
1959	Jan. 23, 1959	a4.74	-
	Apr. 4, 1959	3.81	2,170
1960	Oct. 25, 1959	3.85	2,450
	Nov. 29, 1959	3.99	3,430
	Mar. 31, 1960	a7.40	-
	Apr. 2, 1960	-	2,800
	Apr. 5, 1960	-	2,700
	Apr. 19, 1960	-	3,400
	May 16, 1960	3.94	2,310

a Backwater from ice.

1355. Passumpsic River at Passumpsic, Vt.

Location.--Lat 44°21'55", long 72°02'20", on right bank 0.7 mile upstream from Waterandrick Brook and 1 mile downstream from dam and village of Passumpsic, Caledonia County.

Drainage area.--Area, 436 sq mi. Area of lakes, reservoirs, and ponds, 0.94 sq mi. Length of main stream, 33.2 miles. Average slope above gage, 21.5 ft per mile.

Gage.--Recording. Altitude of gage is 490 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,200 cfs and extended above on basis of flow-over-dam measurement at 16,000 cfs. Changes in relation occur.

Historical data.--Maximum stage known, about 31.5 ft in November 1927, from information by local resident.

Remarks.--Flow regulated by powerplants above station. 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)
1928	November 1927	a31.5	-	1944	Nov. 9, 1943	-	a5,200
1929	Mar. 23, 1929	10.48	-	1945	Mar. 19, 1945	b12.43	-
	Apr. 9, 1929	10.40	6,050		Mar. 30, 1945	11.45	7,090
	Apr. 29, 1929	10.44	6,080		Apr. 3, 1945	9.47	5,310
	May 4, 1929	10.80	6,370		Apr. 26, 1945	9.14	5,040
1930	Mar. 26, 1930	b11.70	-	1946	Oct. 2, 1945	9.29	5,160
	Apr. 8, 1930	9.38	5,230		Mar. 16, 1946	b11.55	-
1931	Apr. 11, 1931	8.28	4,350	1947	Apr. 13, 1947	12.50	7,950
1932	Apr. 9, 1932	9.99	5,730		June 3, 1947	13.15	8,540
	Apr. 13, 1932	10.13	5,810	1948	Mar. 22, 1948	b10.11	-
1933	Nov. 20, 1932	11.24	6,780		Mar. 28, 1948	9.22	5,110
	Apr. 7, 1933	9.82	5,570	1949	Dec. 31, 1948	b12.42	-
	Apr. 19, 1933	14.36	9,660		Mar. 28, 1949	9.26	5,140
1934	Apr. 2, 1934	10.71	6,330	1950	Apr. 21, 1950	15.60	10,700
	Apr. 13, 1934	11.25	6,780				
	Apr. 17, 1934	12.57	8,040	1951	Dec. 5, 1950	10.98	6,580
	Apr. 25, 1934	13.32	8,550		Mar. 31, 1951	10.64	6,280
					Apr. 3, 1951	10.80	6,420
1935	Jan. 10, 1935	b17.74	a8,500		Apr. 26, 1951	10.14	5,840
	May 1, 1935	9.82	5,590				
				1952	Apr. 14, 1952	9.39	5,240
1936	Mar. 13, 1936	-	(c)		Apr. 21, 1952	9.86	5,620
	Mar. 18, 1936	21.23	16,000		June 2, 1952	14.41	9,670
	Apr. 7, 1936	9.75	5,530				
				1953	Mar. 27, 1953	13.23	8,610
1937	Apr. 20, 1937	9.65	5,410				
	Apr. 30, 1937	9.50	5,330	1954	Apr. 23, 1954	15.74	10,900
	May 15, 1937	10.95	6,600		May 10, 1954	9.26	5,140
1938	Mar. 24, 1938	16.30	-	1955	Apr. 16, 1955	13.82	9,140
	Apr. 16, 1938	9.42	5,270		Apr. 20, 1955	12.61	8,050
	Sept.22, 1938	12.23	7,710				
				1956	Apr. 30, 1956	10.84	6,460
1939	Dec. 7 or 8, 1938	12.58	8,040		May 27, 1956	9.65	5,450
	Apr. 22, 1939	11.42	6,960	1957	Apr. 22, 1957	8.41	4,460
	Apr. 29, 1939	10.80	6,420				
				1958	Dec. 21, 1957	b12.37	-
1940	May 3, 1940	14.39	9,660		Dec. 21, 1957	11.51	7,060
	May 18, 1940	9.11	5,010		Apr. 19, 1958	10.39	6,050
	May 21, 1940	10.50	6,150		Apr. 22, 1958	11.77	7,290
	May 29, 1940	9.19	5,090				
				1959	Apr. 3, 1959	b11.15	5,700
1941	Apr. 16, 1941	8.70	4,690				
				1960	Oct. 25, 1959	11.88	7,390
1942	Apr. 16, 1942	11.13	6,690		Nov. 28, 1959	13.75	9,080
	June 15, 1942	13.10	8,490		Apr. 1, 1960	-	5,500
					Apr. 5, 1960	10.95	6,560
1943	Apr. 26, 1943	9.18	5,090		Apr. 19, 1960	13.26	8,630
	May 1, 1943	9.10	5,010		May 16, 1960	10.15	5,850
	May 12, 1943	10.23	5,890				
	June 16, 1943	9.38	5,250				

a About. b Backwater from ice. c No record; greater than 5,000 cfs.

1360. Stevens River at West Barnet, Vt.

Location.--Lat 44°21'55", long 72°08'20", on left bank 0.6 mile east of West Barnet, Caledonia County, and 0.9 mile upstream from mouth of Hollow Brook.

Drainage area.--22.2 sq mi.

Gage.--Recording. Datum of gage is 841.98 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

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

Remarks.--Flow regulated by Harvey Lake and several ponds. 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	May 3, 1940	3.15	366	1943	May 12, 1943	a3.80	203
				1944	Nov. 9, 1943	b3.50	222
1941	July 11, 1941	2.89	274	1945	Apr. 26, 1945	c3.73	381
1942	June 15, 1942	3.08	345				

a Occurred Mar. 8, 1943; backwater from ice.
b Occurred Jan. 9, 1944; backwater from ice.
c Occurred Jan. 3, 1945; backwater from ice.

1375. Ammonoosuc River at Bethlehem Junction, N.H.

Location.--Lat 44°16'10", long 71°37'50", on left bank 0.25 mile upstream from Pierce Bridge and Bethlehem Junction, 0.8 mile upstream from unnamed tributary entering from left, 3 miles east of Bethlehem, Grafton County, and 3.4 miles downstream from Little River.

Drainage area.--Area, 87.6 sq mi. Length of main stream, 21.1 miles. Average slope above gage, 72.0 ft per mile. Average tributary slope, 575 ft per mile. Average land slope, 1,130 ft per mile. Stream density, 1.72 miles square mile. Mean altitude of basin, 2,512 ft.

Gage.--Recording. Datum of gage is 1,180.74 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

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)
1940	May 3, 1940	8.75	5,620	1950	Apr. 20, 1950	8.94	6,040
	May 17, 1940	7.44	3,620				
				1951	Nov. 26, 1950	10.86	8,690
1941	Nov. 12, 1940	6.52	2,600		Dec. 5, 1950	8.79	5,780
					Apr. 3, 1951	6.97	3,180
1942	Apr. 16, 1942	6.73	2,810		Apr. 26, 1951	6.80	2,980
1943	May 17, 1943	7.36	3,620	1952	Nov. 3, 1951	7.24	3,510
	Sept. 8, 1943	6.73	2,810		Apr. 23, 1952	7.01	3,230
					June 2, 1952	8.65	5,540
1944	Nov. 9, 1943	8.84	5,680				
	May 4, 1944	7.04	3,190	1953	Dec. 12, 1952	7.08	3,320
	May 8, 1944	6.64	2,740		Mar. 25, 1953	7.34	3,640
					Mar. 27, 1953	11.22	9,270
1945	Jan. 1, 1945	a7.33	-				
	Mar. 29, 1945	6.61	2,710	1954	Nov. 25, 1953	6.76	2,930
					Apr. 8, 1954	6.75	2,920
1946	Aug. 3, 1946	7.76	4,090		Apr. 22, 1954	6.85	3,040
					May 9, 1954	7.64	7,320
1947	Apr. 12, 1947	6.92	3,120		Aug. 31, 1954	8.20	4,830
	May 6, 1947	7.07	3,300		Sept.11, 1954	10.62	8,300
	June 3, 1947	7.29	3,580				
				1955	Oct. 16, 1954	6.99	3,210
1948	Apr. 1, 1948	7.59	3,970		Apr. 15, 1955	6.74	2,910
	Apr. 21, 1948	6.77	2,940				
				1956	May 13, 1956	7.00	3,220
1949	Dec. 31, 1948	7.01	3,230		May 27, 1956	7.42	3,750
1950	Apr. 5, 1950	6.69	2,850	1957	Jan. 23, 1957	a6.23	-

a Backwater from ice.

Peak stages and discharges of Ammonoosuc River at Bethlehem Junction, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 21, 1957	6.17	2,280	1959	Apr. 3, 1959	-	2,400
1958	Dec. 21, 1957	8.98	6,110	1960	Oct. 24, 1959	12.09	10,800
	Dec. 27, 1957	6.83	3,020		Nov. 28, 1959	8.38	4,990
	Apr. 22, 1958	7.69	4,100		Mar. 31, 1960	6.64	2,790
	Apr. 30, 1958	6.78	2,960		Apr. 18, 1960	7.00	3,220
	May 12, 1958	7.12	3,360		May 15, 1960	8.61	5,290
1959	Jan. 22, 1959	a6.92	-				

a Backwater from ice.

1380. Ammonoosuc River near Bath, N.H.

Location.--Lat 44°09'15", long 71°59'10", on left bank 0.4 mile downstream from Wild Ammonoosuc River and 1½ miles downstream from Bath, Grafton County.

Drainage area.--Area, 395 sq mi. Length of main stream, 50.8 miles. Average slope above gage, 28.7 ft per mile. Average tributary slope, 274 ft per mile. Average land slope, 931 ft per mile. Stream density, 1.53 miles per square mile. Mean altitude of basin, 1,712 ft.

Gage.--Recording. Datum of gage is 454.14 ft above mean sea level, datum of 1929 (levels by Connecticut River Power Co.).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 6,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 12, 1936	14.40	24,500	1950	Apr. 5, 1950	10.40	12,000
	Mar. 18, 1936	15.40	27,900		Apr. 21, 1950	-	b13,200
	Mar. 22, 1936	10.40	12,000				
	Apr. 6, 1936	8.30	6,820	1951	Nov. 26, 1950	12.14	17,200
					Dec. 5, 1950	10.38	11,900
1937	May 7, 1937	8.43	7,040		Apr. 3, 1951	10.38	11,900
	May 15, 1937	10.45	12,000		Apr. 26, 1951	8.35	6,930
1938	Oct. 21, 1937	9.26	8,980	1952	Nov. 3, 1951	8.81	7,940
	Jan. 25, 1938	a9.18	-		Apr. 14, 1952	8.42	7,100
	Mar. 24, 1938	8.78	7,880		June 2, 1952	11.15	14,200
	Sept.21, 1938	15.07	26,800				
				1953	Dec. 12, 1952	9.50	9,480
1939	Dec. 6, 1938	11.33	14,700		Jan. 25, 1953	-	-
	Apr. 20, 1939	9.71	10,100		Mar. 25, 1953	9.61	9,740
	Apr. 22, 1939	9.02	8,360		Mar. 27, 1953	13.83	21,900
1940	May 3, 1940	10.70	12,900	1954	Apr. 8, 1954	8.60	7,480
	May 17, 1940	8.93	8,140		Apr. 12, 1954	8.52	7,300
					Apr. 18, 1954	8.12	6,520
1941	Nov. 12, 1940	7.87	6,000		May 9, 1954	9.22	8,840
					Sept.12, 1954	12.22	16,600
1942	Mar. 9, 1942	8.92	8,140				
	Apr. 16, 1942	9.08	8,600	1955	Apr. 15, 1955	9.11	8,600
	June 15, 1942	9.37	9,320				
				1956	Apr. 17, 1956	8.31	6,880
1943	May 13, 1943	8.16	6,600		Apr. 30, 1956	8.31	6,880
					May 27, 1956	9.39	9,220
1944	Nov. 9, 1943	10.64	12,700				
				1957	Jan. 23, 1957	a9.34	-
1945	May 19, 1945	8.53	7,330		Jan. 23, 1957	a7.73	5,810
1946	Dec. 7, 1945	8.85	8,030	1958	Dec. 21, 1957	11.24	13,800
	Aug. 3, 1946	8.96	8,270		Apr. 19, 1958	8.71	7,720
					Apr. 23, 1958	8.88	8,100
1947	Oct. 1, 1946	8.87	8,070				
	Apr. 12, 1947	9.57	9,740	1959	Apr. 3, 1959	-	9,200
	June 3, 1947	12.32	17,800				
				1960	Oct. 25, 1959	14.28	23,500
1948	Mar. 28, 1948	8.17	6,540		Nov. 28, 1959	11.11	13,400
	Apr. 1, 1948	8.99	8,340		Mar. 31, 1960	10.02	10,700
					Apr. 5, 1960	9.49	9,460
1949	Jan. 1, 1949	8.23	6,670		May 16, 1960	9.18	8,760

a Backwater from ice. b Estimated.

1385. Connecticut River at Wells River, Vt.

Location.--Lat 44°09'15", long 72°02'35", on right bank 200 ft downstream from bridge on U.S. Highway 302 at Wells River, Orange County, 400 ft upstream from Wells River, and 1,200 ft downstream from Ammonoosuc River.

Drainage area.--2,644 sq mi.

Gage.--Recording. Datum of gage is 399.75 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 48,000 cfs and extended above.

Remarks.--Flow regulated by reservoirs upstream (combined usable capacity, about 14¾ billion cubic feet). 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)
1950	Apr. 21, 1950	12.62	39,600	1955	Apr. 17, 1955	12.95	40,500
1951	Nov. 27, 1950	9.57	25,300	1956	Apr. 30, 1956	10.00	27,200
	Dec. 5, 1950	9.52	25,000		May 28, 1956	9.62	25,500
	Mar. 31, 1951	9.54	25,100				
	Apr. 3, 1951	11.55	34,200	1957	Apr. 22, 1957	7.95	19,600
	Apr. 12, 1951	9.69	25,800				
	Apr. 27, 1951	9.45	24,700	1958	Dec. 21, 1957	11.35	34,900
					Apr. 19, 1958	9.70	27,400
1952	Apr. 15, 1952	9.80	26,300		Apr. 24, 1958	13.72	45,500
	Apr. 21, 1952	9.90	26,800				
	June 2, 1952	12.12	37,100	1959	Apr. 6, 1959	8.37	21,500
1953	Mar. 27, 1953	15.96	54,000	1960	Oct. 25, 1959	11.75	36,700
					Nov. 28, 1959	11.79	36,900
1954	Apr. 12, 1954	9.84	26,500		Apr. 5, 1960	11.82	37,000
	Apr. 24, 1954	14.67	48,200		Apr. 19, 1960	11.17	34,100
	May 9, 1954	10.02	27,300				
	Sept.12, 1954	10.82	30,900				

1390. Wells River at Wells River, Vt.

Location.--Lat 44°09'05", long 72°04'00", on right bank 800 ft upstream from railroad bridge, 0.8 mile west of village of Wells River, Orange County, and 1.5 miles upstream from mouth.

Drainage area.--Area, 98.4 sq mi. Area of lakes, reservoirs, and ponds, 1.13 sq mi. Length of main stream, 17.8 miles. Average slope above gage, 89.8 ft per mile.

Gage.--Recording. Datum of gage is 505.53 ft above mean sea level, datum of 1929 (levels by Connecticut River Power Co.).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs and extended above on basis of flow-over-dam measurement at 3,230 cfs. Minor changes in relation occur.

Remarks.--Flow partly regulated by Groton and Ricker Ponds. Base for partial-duration series, 980 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 16, 1941	3.88	773	1944	Apr. 25, 1944	4.41	1,050
					May 8, 1944	4.52	1,140
1942	Mar. 9, 1942	5.64	1,790				
	Apr. 8, 1942	4.45	1,080	1945	Mar. 18, 1945	4.50	1,120
	Apr. 16, 1942	5.18	1,520		Mar. 29, 1945	4.79	1,350
	May 17, 1942	4.70	1,280		Apr. 26, 1945	5.79	1,880
	June 15, 1942	5.88	1,940		May 19, 1945	4.58	1,180
					July 26, 1945	4.32	984
1943	Apr. 28, 1943	4.51	1,120				
	May 1, 1943	4.36	1,020	1946	Oct. 2, 1945	4.89	1,330
	May 12, 1943	4.35	1,020		Dec. 7, 1945	4.82	1,280
					Mar. 9, 1946	-	1,450
1944	Nov. 9, 1943	5.05	1,430		Mar. 14, 1946	4.40	1,040
	Apr. 10, 1944	4.72	1,300				

Peak stages and discharges of Wells River at Wells River, Vt.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 12, 1947	5.36	1,630	1954	Apr. 22, 1954	4.88	1,320
	June 3, 1947	6.35	2,220		May 9, 1954	4.79	1,260
1948	Apr. 1, 1948	5.00	1,400	1955	Apr.6-7, 1955	4.40	1,020
					Apr.11,12,1955	4.76	1,240
1949	Dec. 31, 1948	-	1,100		Apr. 15, 1955	5.29	1,580
					Apr. 19, 1955	5.21	1,540
1950	Apr. 5, 1950	4.74	1,310				
	Apr. 21, 1950	6.04	2,030	1956	Apr. 17, 1956	4.76	1,240
					Apr. 30, 1956	4.57	1,120
1951	Dec. 5, 1950	4.41	1,030		May 27, 1956	5.30	1,590
	Mar. 31, 1951	5.24	1,550				
	Apr. 11, 1951	4.98	1,390	1957	Nov. 22, 1956	3.61	570
	Apr. 26, 1951	4.77	1,250		Jan. 31, 1957	a4.72	-
1952	Apr. 6, 1952	5.30	1,590	1958	Dec. 21, 1957	5.36	1,630
	Apr.10,11,1952	4.90	1,340		Apr. 19, 1958	5.38	1,640
	Apr. 15, 1952	5.12	1,480		Apr. 22, 1958	5.68	1,820
	Apr. 20, 1952	4.90	1,340		June 2, 1958	4.49	1,070
	June 2, 1952	8.12	3,230				
				1959	Apr. 3, 1959	a4.70	1,050
1953	Dec. 12, 1952	5.07	1,450		Apr. 6, 1959	4.36	996
	Mar. 25, 1953	-	1,800		Apr. 9, 1959	4.35	990
	Mar. 27, 1953	-	1,650				
	Mar. 30, 1953	4.47	1,060	1960	Oct. 25, 1959	5.45	1,680
					Nov. 28, 1959	5.95	1,980
1954	Apr. 8, 1954	4.60	1,140		Mar. 31, 1960	4.97	1,380
	Apr. 11, 1954	4.96	1,370		Apr. 5, 1960	5.16	1,500
	Apr. 18, 1954	4.90	1,340		Apr. 18, 1960	4.87	1,320

a Backwater from ice.

1395. Connecticut River at South Newbury, Vt.

Location.--Lat 44°02'45", long 72°04'30", on right bank 75 ft downstream from bridge at South Newbury, Orange County, 2½ miles south of Newbury, and 4 miles upstream from Waits River.

Drainage area.--Area, 2,825 sq mi. Area of lakes, reservoirs, and ponds, 22.7 sq mi. Length of main stream, 147 miles. Average slope above gage, 8.15 ft per mile,

Gage.--Nonrecording prior to Sept. 16, 1930; recording thereafter. Datum of gage is 374.90 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 50,000 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Comerford Station Pond, and other reservoirs (combined capacity, 9,750,000,000 cu ft). Base for partial-duration series, 24,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	Nov. 1, 1918	21.35	27,400	1928	Nov. 4, 1927	33.4	84,500
1920	Mar. 29, 1920	23.9	32,200	1929	Apr. 11, 1929	23.05	31,600
					Apr. 30, 1929	20.45	26,100
1921	Mar. 22, 1921	20.7	26,300		May 6, 1929	22.80	31,100
1922	Apr. 13, 1922	-	52,000	1930	Apr. 8, 1930	19.68	25,000
1923	May 1, 1923	30.9	51,000	1931	Apr. 14, 1931	16.73	20,100
1924	Sept.13, 1924	24.1	32,600	1932	Apr. 13, 1932	24.40	33,200
1925	Mar. 30, 1925	24.03	32,500	1933	Apr. 20, 1933	30.30	49,900
					May 5, 1933	23.72	31,800
1926	May 6, 1926	27.1	39,400				
				1934	Apr. 13, 1934	23.91	32,200
1927	Mar. 18, 1927	19.6	24,400		Apr. 21, 1934	25.80	36,200

Peak stages and discharges of Connecticut River at South Newbury, Vt.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Apr. 26, 1934	25.78	36,200	1942	June 16, 1942	19.73	24,500
1935	Jan. 11, 1935	a23.12	-	1943	Apr. 29, 1943	19.88	24,800
	May 1, 1935	22.20	28,900		May 13, 1943	22.40	29,300
1936	Mar. 13, 1936	27.40	40,200	1944	Nov. 10, 1943	19.97	25,000
	Mar. 20, 1936	38.6	77,800		May 7, 1944	22.12	28,800
	May 4, 1936	20.37	25,700	1945	Mar. 19, 1945	22.18	29,000
1937	May 1, 1937	20.80	26,400		Mar. 31, 1945	25.18	b35,000
	May 16, 1937	23.40	31,200	1946	Oct. 3, 1945	18.47	b22,700
1938	Mar. 24, 1938	21.29	27,300		Mar. 16, 1946	a21.98	-
	Sept.22, 1938	28.60	43,700	1947	Apr. 13, 1947	24.19	b33,800
1939	Dec. 7, 1938	22.07	28,800		May 8, 1947	21.53	b28,400
	Apr. 23, 1939	26.6	38,100		June 4, 1947	27.96	b43,700
	May 10-11,1939	22.72	29,900	1948	Mar. 29, 1948	20.11	b25,100
1940	May 5, 1940	29.18	45,500		Apr. 3, 1948	20.62	b25,900
1941	Apr. 18, 1941	20.75	26,400	1949	Mar. 30, 1949	19.00	23,400
1942	Apr. 19, 1942	21.28	27,300	1950	Apr. 6, 1950	19.75	b24,900
	Apr. 28, 1942	22.56	29,700		Apr. 22, 1950	24.65	b34,400

a Backwater from ice.
b Discharge computed using rate of change of stage as a factor.

1400. South Branch Waits River near Bradford, Vt.

Location.--Lat 44°01'05", long 72°12'30", on left bank 50 ft upstream from highway bridge, 1¼ miles upstream from mouth, and 4½ miles west of Bradford, Orange County.

Drainage area.--Area, 42.7 sq mi. Length of main stream, 13.0 miles. Average slope above gage, 95.7 ft per mile.

Gage.--Nonrecording prior to Dec. 10, 1939; recording thereafter. At different datum prior to Oct. 26, 1939. Altitude of gage is 715 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 310 cfs and extended above on basis of slope-area measurement at 2,300 cfs. Minor changes in relation occur.

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)
1940	Apr. 12, 1940	2.90	627	1945	Apr. 26, 1945	4.25	1,560
	Apr. 19, 1940	2.77	560		May 19, 1945	3.46	959
	May 3, 1940	3.93	1,300				
	May 17, 1940	3.20	797	1946	Dec. 7, 1945	2.82	600
	May 21, 1940	2.90	627		Mar. 9, 1946	4.86	a1,200
	May 28, 1940	2.97	666	1947	Apr. 12, 1947	3.40	1,090
1941	July 28, 1941	2.58	470		May 30, 1947	2.57	535
					June 3, 1947	4.57	2,300
1942	Mar. 9, 1942	3.08	745				
	Apr. 8, 1942	3.00	690	1948	Mar. 22, 1948	2.57	535
	Apr. 16, 1942	3.20	800		Mar. 28, 1948	2.66	545
	May 17, 1942	3.02	690		Apr. 1, 1948	3.42	970
	June 15, 1942	3.56	1,020	1949	Dec. 30, 1948	-	a700
1943	May 12, 1943	2.67	521	1950	Apr. 5, 1950	2.76	706
					Apr. 20, 1950	3.17	979
1944	Oct. 17, 1943	2.79	580				
	Nov. 9, 1943	2.97	674	1951	Nov. 26, 1950	2.48	550
	Apr. 10, 1944	2.87	620		Dec. 5, 1950	2.44	530
	May 8, 1944	3.33	878		Mar. 31, 1951	3.27	974
1945	Mar. 22, 1945	2.65	500		Apr. 7, 1951	2.79	659
	Mar. 28, 1945	2.90	630		May 28, 1951	2.56	535
	Apr. 5, 1945	2.72	535				

a Estimated; ice jam.

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1405. Connecticut River at Orford, N.H.

Location.--Lat 43°54'25", long 72°08'25", on upstream side of covered highway bridge at Orford, Orange County, 9 miles downstream from Waits River, and 22 miles upstream from White River.

Drainage area.--3,100 sq mi.

Gage.--Nonrecording. Altitude of gage is 370 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes. 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	Apr. 25, 1901	22.8	32,800	1912	Apr. 8, 1912	25.8	39,400
1902	Mar. 3, 1902	28.0	44,500	1913	Mar. 28, 1913	33.4	57,300
1903	Mar. 24, 1903	26.3	40,600	1914	Apr. 22, 1914	28.4	45,400
1904	May 19, 1904	18.6	23,800	1915	Feb. 26, 1915	23.9	35,200
1905	Mar. 30, 1905	25.1	37,800				
				1916	Apr. 3, 1916	22.6	32,300
1906	Apr. 16, 1906	22.2	31,500	1917	Apr. 24, 1917	21.3	29,500
1907	May 3, 1907	26.8	41,800	1918	Apr. 3, 1918	21.5	29,300
1908	Apr. 30, 1908	24.8	37,200	1919	Apr. 14, 1919	21.4	29,700
1909	Apr. 16, 1909	30.8	51,000	1920	Mar. 29, 1920	24.6	36,700
1910	Apr. 2, 1910	19.0	24,600				
				1921	Mar. 23, 1921	21.0	28,900
1911	May 3, 1911	23.8	35,000				

1415. Ompompanoosuc River at Union Village, Vt.

Location.--Lat 43°47'20", long 72°15'20", on right bank 100 ft upstream from covered bridge at Union Village, Orange County, a quarter of a mile downstream from Avery Brook, and 0.3 mile downstream from Union Village Reservoir.

Drainage area.--Area, 130 sq mi. Area of lakes, reservoirs, and ponds, 0.96 sq mi. Length of main stream, 18.4 miles. Average slope above gage, 52.6 ft per mile.

Gage.--Recording. Altitude of gage is 435 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of slope-area measurement at 4,800 cfs. Minor changes in relation occur.

Historical data.--Flood of November 1927 reached a stage of 14.5 ft, from information by local resident.

Remarks.--Flow regulated by Union Village Reservoir since October 1949. Some regulation by Lake Fairlee. Base for partial-duration series, 1,300 cfs. Only annual peaks are shown subsequent to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	November 1927	14.5	-	1944	Nov. 9, 1943	8.29	2,970
					Apr. 10, 1944	7.92	2,640
1941	July 28, 1941	6.13	1,260		May 8, 1944	7.72	2,460
					June 24, 1944	6.30	1,340
1942	Mar. 9, 1942	7.90	2,600				
	Apr. 8, 1942	7.78	2,520	1945	Mar. 18, 1945	7.17	2,020
	Apr. 16, 1942	7.05	1,920		Mar. 22, 1945	7.02	1,900
	May 17, 1942	6.39	1,430		Mar. 28, 1945	7.21	2,050
	June 15, 1942	7.89	2,660		Apr. 26, 1945	8.65	3,300
					May 14, 1945	6.51	1,490
1943	Mar. 27, 1943	6.46	1,460		June 26, 1945	6.50	1,480
	Apr. 28, 1943	7.00	1,880				
	Aug. 5, 1943	6.70	1,640	1946	Oct. 2, 1945	7.31	2,130
					Oct. 9, 1945	6.70	1,640
1944	Oct. 17, 1943	6.91	1,810		Dec. 7, 1945	7.34	2,150

Peak stages and discharges of Ompompanoosuc River at Union Village, Vt.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 9, 1946	a8.98	b2,200	1949	Mar. 28, 1949	7.54	2,310
	Mar. 14, 1946	7.37	2,180				
				1950	Apr. 20, 1950	7.62	2,350
1947	Mar. 25, 1947	a6.99	b1,680				
	Apr. 6, 1947	6.77	1,640	1951	Mar. 31, 1951	7.11	1,740
	Apr. 12, 1947	8.09	2,860	1952	Apr. 6, 1952	7.44	2,000
	June 3, 1947	9.65	4,800	1953	Mar. 31, 1953	7.23	1,830
				1954	Apr. 19, 1954	6.86	1,540
1948	Mar. 22, 1948	8.07	2,840	1955	Apr. 16, 1955	7.05	1,690
	Mar. 24, 1948	6.85	1,700				
	Mar. 28, 1948	7.50	2,270	1956	Apr. 17, 1956	7.16	1,780
	Apr. 1, 1948	8.44	3,240	1957	Jan. 24, 1957	5.61	740
				1958	Apr. 19, 1958	7.24	1,840
1949	Dec. 31, 1948	7.38	2,160	1959	Apr. 5, 1959	7.38	1,950
	Mar. 23, 1949	6.37	1,350	1960	Apr. 1, 1960	7.36	1,940

a Backwater from ice.
b Estimated.

1420. White River near Bethel, Vt.

Location.--Lat 43°48'45", long 72°39'25", on right bank a third of a mile upstream from Locust Creek and 1¾ miles southwest of Bethel, Windsor County.

Drainage area.--Area, 241 sq mi. Length of main stream, 30.1 miles. Average slope above gage, 19.9 ft per mile. Average tributary slope, 350 ft per mile. Average land slope, 1,295 ft per mile. Stream density, 2.09 miles per square mile. Mean altitude of basin, 1,801 ft.

Gage.--Recording. At datum 2.00 ft higher prior to Oct. 1, 1940. Altitude of gage is 550 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended above on basis of slope-area measurement at 32,200 cfs. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 5,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Apr. 12, 1932	4.41	5,570	1945	Mar. 20, 1945	6.37	6,810
					Apr. 26, 1945	6.44	7,020
1933	Nov. 19, 1932	5.32	8,200		June 26, 1945	6.65	7,650
	Apr. 18, 1933	5.93	12,200				
				1946	Oct. 2, 1945	8.31	13,700
1934	Apr. 12, 1934	5.12	7,600		Mar. 7, 1946	a10.36	-
	Apr. 17, 1934	4.50	5,850		Mar. 9, 1946	7.11	9,260
1935	Jan. 10, 1935	5.71	11,000	1947	Mar. 14, 1947	a11.78	-
					Apr. 12, 1947	7.71	11,400
1936	Mar. 12, 1936	a6.50	7,140		June 3, 1947	9.60	20,200
	Mar. 18, 1936	6.72	16,100				
	Apr. 6, 1936	4.54	6,080	1948	Mar. 22, 1948	7.42	10,300
					Mar. 27, 1948	6.66	7,800
1937	May 15, 1937	6.12	13,000				
				1949	Dec. 31, 1948	9.53	19,900
1938	Mar. 24, 1938	4.88	7,330				
	Sept.21, 1938	9.46	32,200	1950	Apr. 5, 1950	6.87	8,470
1939	Apr. 20, 1939	4.32	6,150	1951	Nov. 26, 1950	7.41	10,300
	Apr. 22, 1939	4.30	6,150		Dec. 5, 1950	6.48	7,250
1940	May 3, 1940	5.35	9,600	1952	June 1, 1952	8.74	15,700
	May 20, 1940	6.05	12,400				
				1953	Dec. 12, 1952	6.35	6,860
1941	Apr. 15, 1941	6.01	5,620		Mar. 24, 1953	6.52	8,750
					Mar. 27, 1953	8.55	17,600
1942	Mar. 9, 1942	a13.20	-				
	Apr. 8, 1942	6.25	6,350	1954	Apr. 8, 1954	6.43	7,100
					Apr. 11, 1954	6.67	7,830
1943	Apr. 26, 1943	5.78	5,070				
				1955	Apr. 15, 1955	6.86	8,440
1944	Nov. 9, 1943	7.02	8,720				
	Apr. 10, 1944	7.08	8,930				

a Backwater from ice.

1425. Ayers Brook at Randolph, Vt.

Location.--Lat 43°56'05", long 72°39'30", on right bank 55 ft upstream from bridge on State Highway 12, just north of village limits of Randolph, Orange County, 0.4 mile upstream from Adams Brook, and 1.2 miles upstream from mouth.

Drainage area.--Area, 30.5 sq mi. Length of main stream, 10.2 miles. Average slope above gage, 80.4 ft per mile. Average tributary slope, 375 ft per mile. Average land slope, 890 ft per mile. Stream density, 1.99 miles per square mile. Mean altitude of basin 1,324 ft.

Gage.--Recording. Datum of gage is 632.75 ft above mean sea level, datum of 1929 (levels by Corps of Engineers)

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above by logarithmic plotting. Large change in relation occurred Dec. 31, 1948; minor changes otherwise.

Historical data.--Flood of November 1927 reached a stage of about 16 ft, from information by local residents.

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)
1928	November 1927	a16	-	1950	Apr.20,21,1950	3.58	552
1940	Apr. 12, 1940	4.43	650	1951	Nov. 26, 1950	3.20	412
	Apr. 19, 1940	4.56	690		Dec. 5, 1950	3.94	696
	May 3, 1940	4.60	710		Mar. 31, 1951	3.44	497
	May 21, 1940	5.13	965		Apr. 7, 1951	3.69	596
1941	Dec. 29, 1940	3.27	302	1952	Apr. 6, 1952	3.76	624
					Apr. 10, 1952	4.07	755
1942	Mar. 9, 1942	3.75	430		Apr. 14, 1952	3.64	576
	Apr. 3, 1942	3.52	357		June 1, 1952	7.58	3,490
	Apr. 8, 1942	4.27	620				
	Apr. 16, 1942	4.28	640	1953	Dec. 12, 1952	3.58	522
	June 15, 1942	3.64	394		Feb. 21, 1953	3.16	378
					Mar. 24, 1953	4.45	918
1943	Mar. 27, 1943	3.81	451		Mar. 27, 1953	4.29	835
	Apr. 28, 1943	3.63	391		Mar. 30, 1953	4.19	786
	May 12, 1943	3.82	454		May 1, 1953	3.50	490
1944	Nov. 9, 1943	4.44	646	1954	Apr. 8, 1954	3.61	534
	Apr. 10, 1944	5.31	1,040		Apr. 17, 1954	3.08	354
	Apr. 24, 1944	3.78	424				
				1955	Apr. 6, 1955	3.88	646
1945	Mar. 18, 1945	4.17	550		Apr. 10, 1955	4.13	758
	Mar. 22, 1945	4.40	630		Apr. 15, 1955	3.64	546
	Mar. 28, 1945	3.77	421		Apr. 19, 1955	3.41	458
	Apr. 5, 1945	3.52	350				
	Apr. 26, 1945	4.63	722	1956	Apr. 17, 1956	3.41	458
	May 19, 1945	4.17	550		Apr. 30, 1956	3.98	691
	July 26, 1945	3.75	415		May 27, 1956	3.28	408
1946	Oct. 2, 1945	4.57	698	1957	Jan. 23, 1957	-	420
	Oct. 9, 1945	3.54	356		Feb. 27, 1957	b3.43	-
	Mar. 9, 1946	4.62	718				
	Mar. 14, 1946	4.61	714	1958	Dec. 21, 1957	4.37	875
					Apr. 18, 1958	4.00	700
1947	Mar. 25, 1947	3.54	358		Apr. 22, 1958	4.29	835
	Apr. 6, 1947	3.87	451				
	Apr. 12, 1947	4.58	702	1959	Apr. 3, 1959	-	570
	May 30, 1947	3.58	369		Apr. 5, 1959	3.64	546
	June 3, 1947	5.76	1,310		Apr. 8, 1959	3.79	606
1948	Mar. 22, 1948	4.82	790	1960	Oct. 1, 1959	3.08	354
	Mar. 28, 1948	3.88	448		Oct. 24, 1959	3.52	498
					Nov. 28, 1959	5.10	1,330
1949	Dec. 31, 1948	6.41	2,120		Apr. 5, 1960	3.82	619
	Mar. 26, 1949	3.15	355		Apr. 15, 1960	3.41	458
1950	Apr. 5, 1950	3.72	608				

a About.
b Backwater from ice.

1440. White River at West Hartford, Vt.

Location.--Lat 43°42'45", long 72°25'10", on left bank 500 ft upstream from highway bridge at West Hartford, Windsor County, and 7 miles upstream from mouth.

Drainage area.--Area, 690 sq mi. Area of lakes, reservoirs, and ponds, 0.52 sq mi. Length of main stream, 49.7 miles. Average slope above gage, 13.1 ft per mile.

Gage.--Nonrecording prior to Oct. 30, 1927; recording thereafter. Datum of gage is 374.53 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 29,000 cfs and extended above on basis of slope-area measurement at 120,000 cfs. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 11,600 cfs. Only annual peaks are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Apr. 2, 1916	10.8	11,800	1942	Apr. 16, 1942	11.72	14,500
1917	June 12, 1917	12.0	15,300				
1918	Apr. 3, 1918	10.4	10,700	1943	Feb. 25, 1943	a15.08	-
1919	Mar. 28, 1919	16.0	30,000		Apr. 26, 1943	10.10	9,950
1920	Apr. 13, 1920	13.0	18,600				
				1944	Nov. 9, 1943	11.54	13,800
1921	Mar. 21, 1921	12.6	17,200		Apr. 10, 1944	13.19	18,600
1922	Apr. 12, 1922	17.1	35,500				
1923	Apr. 6, 1923	12.7	17,600	1945	Mar. 18, 1945	10.85	12,000
1924	Apr. 19, 1924	11.3	13,200		Mar. 21, 1945	11.24	13,000
1925	Mar. 29, 1925	16.25	31,200		Apr. 26, 1945	12.04	15,200
1926	Apr. 25, 1926	13.3	19,700	1946	Oct. 2, 1945	13.32	19,000
1927	Mar. 14, 1927	13.7	21,100		Mar. 9, 1946	12.94	17,800
1928	Nov. 4, 1927	29.3	120,000				
				1947	Apr. 12, 1947	-	b18,800
1929	Mar. 24, 1929	10.70	12,600		June 3, 1947	16.60	31,100
	Apr. 6, 1929	10.74	12,600				
	Apr. 26, 1929	10.77	12,800	1948	Mar. 22, 1948	13.50	19,800
					Mar. 28, 1948	11.97	15,100
1930	Jan. 9, 1930	10.68	12,600				
				1949	Dec. 31, 1948	16.58	31,000
1931	Apr. 11, 1931	11.25	14,200				
				1950	Apr. 5, 1950	12.53	16,700
1932	Apr. 12, 1932	11.89	15,000				
				1951	Nov. 26, 1950	-	(c)
1933	Nov. 20, 1932	12.20	15,900		Dec. 5, 1950	-	12,000
	Apr. 7, 1933	10.84	11,800		Mar. 31, 1951	11.45	13,600
	Apr. 18, 1933	14.32	23,300				
				1952	Apr. 6, 1952	11.34	13,300
1934	Apr. 3, 1934	a19.94	-		June 1, 1952	16.11	29,100
	Apr. 12, 1934	14.14	22,600				
	Apr. 17, 1934	11.04	12,300	1953	Dec. 12, 1952	10.85	12,000
					Mar. 25, 1953	12.64	17,100
1935	Jan. 10, 1935	13.44	20,000		Mar. 27, 1953	15.38	26,300
1936	Mar. 13, 1936	14.12	22,600	1954	Feb. 22, 1954	a12.65	-
	Mar. 18, 1936	18.89	45,400		Apr. 8, 1954	11.34	13,300
	Mar. 21, 1936	12.83	17,900		Apr. 12, 1954	11.34	13,300
	Apr. 6, 1936	11.30	13,200				
				1955	Mar. 12, 1955	a12.85	-
1937	Feb. 22, 1937	11.37	13,500		Apr. 11, 1955	10.86	12,000
	Apr. 6, 1937	11.11	12,600		Apr. 15, 1955	11.87	14,800
	May 15, 1937	14.26	23,300				
				1956	Apr. 30, 1956	12.41	16,400
1938	Mar. 24, 1938	11.76	14,600				
	Sept.22, 1938	19.26	47,600	1957	Jan. 23, 1957	10.52	11,100
1939	Dec. 6, 1938	11.80	14,700	1958	Dec. 21, 1957	12.22	15,800
	Apr. 20, 1939	11.89	15,000		Apr. 22, 1958	13.62	20,100
	Apr. 22, 1939	12.20	15,900				
	Apr. 26, 1939	11.10	12,600	1959	Jan. 22, 1959	a16.37	-
	Apr. 28, 1939	10.90	12,100		Apr. 3, 1959	10.60	11,300
1940	May 3, 1940	12.81	17,300	1960	Oct. 24, 1959	10.76	11,700
	May 21, 1940	13.44	19,200		Nov. 28, 1959	13.63	20,200
					Mar. 31, 1960	11.64	14,100
1941	Apr. 15, 1941	9.78	9,180		Apr. 5, 1960	12.04	15,300
					Apr. 15, 1960	11.15	12,800
1942	Apr. 8, 1942	11.70	14,500		Apr. 18, 1960	10.75	11,700

a Backwater from ice. b About. c No record; greater than 11,600 cfs.

1445. Connecticut River at White River Junction, Vt.

Location.--Lat 43°38'50", long 72°18'45", on right bank 50 ft downstream from railroad bridge at White River Junction, Windsor County, and 500 ft downstream from White River.

Drainage area.--Area, 4,092 sq mi. Area of lakes, reservoirs, and ponds, 26.7 sq mi. Length of main stream, 183 miles. Average slope above gage, 5.95 ft per mile.

Gage.--Nonrecording prior to Nov. 3, 1930; recording thereafter. Datum of gage is 321.52 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 70,000 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Comerford Station Pond, Union Village Reservoir, and other reservoirs. Base for partial-duration series, 34,000 cfs. Only annual peaks are shown prior to 1933.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Apr. 8, 1912	23.0	69,800	1942	Apr. 8, 1942	16.90	37,800
1913	Mar. 27, 1913	30.0	113,000		Apr. 18, 1942	17.3	39,500
1914	Apr. 21, 1914	22.8	68,800		Apr. 28, 1942	15.96	34,000
1915	Feb. 26, 1915	17.6	44,400	1943	Apr. 28, 1943	16.72	36,900
1916	Apr. 2, 1916	17.0	41,800		May 13, 1943	16.85	37,400
1917	Apr. 23, 1917	16.6	40,000	1944	Apr. 11, 1944	16.27	35,200
1918	Apr. 3, 1918	18.5	48,400		May 8, 1944	16.68	36,800
1919	Mar. 28, 1919	20.8	59,200	1945	Mar. 22, 1945	18.10	42,900
1920	Apr. 24, 1920	18.5	48,400		Apr. 1, 1945	18.00	42,500
1921	Mar. 22, 1921	16.7	40,500	1946	Oct. 2, 1945	16.07	34,600
1922	Apr. 12, 1922	27.0	89,500	1947	Apr. 13, 1947	19.00	46,800
1923	May 1, 1923	22.2	66,000		June 3, 1947	22.55	63,400
1924	May 2, 1924	17.0	41,800	1948	Mar. 25, 1948	16.90	37,900
1925	Mar. 29, 1925	22.8	68,800		Mar. 28, 1948	16.72	37,200
1926	Apr. 25, 1926	20.6	58,300		Apr. 3, 1948	16.15	34,900
1927	Mar. 20, 1927	15.3	34,500	1949	Dec. 31, 1948	18.12	43,000
1928	Nov. 4, 1927	35.0	136,000	1950	Apr. 5, 1950	17.30	39,600
1929	May 6, 1929	16.7	39,400		Apr. 22, 1950	18.14	43,100
1930	Apr. 8, 1930	15.6	33,100	1951	Mar. 31, 1951	17.43	40,100
1931	Apr. 11, 1931	14.90	30,100		Apr. 4, 1951	17.41	40,000
1932	Apr. 12, 1932	20.60	51,900		Apr. 11, 1951	17.84	41,800
1933	Apr. 8, 1933	16.84	35,700		Apr. 13, 1951	17.84	41,800
	Apr. 19, 1933	24.20	68,700	1952	Apr. 6, 1952	17.30	39,600
	May 5, 1933	16.87	36,100		Apr. 15, 1952	16.82	37,600
1934	Apr. 12, 1934	21.8	57,200		June 2, 1952	21.15	56,500
	Apr. 21, 1934	19.4	46,700	1953	Mar. 27, 1953	24.48	73,300
	Apr. 26, 1934	18.50	42,700	1954	Apr. 12, 1954	17.15	38,900
1935	May 1, 1935	15.82	33,200		Apr. 24, 1954	19.89	50,700
1936	Mar. 13, 1936	19.5	46,500		May 11, 1954	16.30	35,500
	Mar. 19, 1936	32.6	120,000	1955	Apr. 16, 1955	19.82	50,400
1937	May 15, 1937	20.65	51,500	1956	Apr. 17, 1956	16.26	35,300
1938	Mar. 25, 1938	16.97	38,200		Apr. 30, 1956	17.62	40,900
	Sept.22, 1938	26.7	82,400	1957	Jan. 23, 1957	-	23,000
1939	Dec. 7, 1938	16.90	37,800	1958	Dec. 21, 1957	17.99	42,500
	Apr. 26, 1939	20.9	52,800				
	May 10, 1939	16.12	34,400				
1940	May 5, 1940	22.32	59,600				
	May 21, 1940	16.40	35,700				
1941	Apr. 18, 1941	15.48	32,000				

Peak stages and discharges of Connecticut River at White River Junction, Vt.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Apr. 25, 1958	21.33	57,400	1960	Nov. 28, 1959	20.07	51,500
					Apr. 2, 1960	17.05	38,500
1959	Jan. 22, 1959	a23.08	-		Apr. 5, 1960	21.24	57,000
	Apr. 3, 1959	16.66	36,900		Apr. 20, 1960	17.70	41,200
1960	Oct. 25, 1959	17.23	39,300				

a Backwater from ice.

Note.--Many times during the period of record, lagging intakes affected the recorder stage graph. Consequently, many peaks were determined from graph based on twice-daily chain-gage readings.

1450. Mascoma River at West Canaan, N.H.

Location.--Lat 43°39'00", long 72°04'50", on right bank 45 ft downstream from Boston and Maine Railroad bridge, 0.9 mile east of West Canaan, Grafton County, 1.2 miles downstream from Indian River, and 3½ miles west of Canaan.

Drainage area.--Area, 80.5 sq mi. Length of main stream, 14.4 miles. Average slope above gage, 50.2 ft per mile. Average tributary slope, 234 ft per mile. Average land slope, 588 ft per mile. Stream density, 1.60 miles per square mile. Mean altitude of basin, 1,402 ft.

Gage.--Recording. Altitude of gage is 835 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements. Small changes in relation occur.

Historical data.--Flood of September 1938 reached a stage of 9.6 ft from flood-marks (discharge, 4,310 cfs, from rating curve extended above 1,900 cfs on basis of slope-area measurement at peak flow).

Remarks.--Base for partial-duration series, 950 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	September 1938	9.6	4,310	1951	Apr. 3, 1951	7.04	2,370
1940	Apr. 13, 1940	5.40	1,280	1952	Nov. 4, 1951	4.78	996
	Apr. 20, 1940	4.95	1,060		Apr. 6, 1952	5.79	1,510
	May 5, 1940	6.89	2,230		Apr. 11, 1952	4.78	996
					Apr. 15, 1952	5.52	1,360
1941	July 13, 1941	4.55	880		June 2, 1952	6.19	1,770
1942	Apr. 8, 1942	5.49	1,340	1953	Dec. 12, 1952	5.65	1,430
	June 15, 1942	7.30	2,510		Mar. 25, 1953	6.18	1,770
					Mar. 27, 1953	8.94	3,780
1943	Apr. 28, 1943	4.95	1,070				
	May 13, 1943	4.92	1,040	1954	Apr. 18, 1954	5.89	1,570
					May 11, 1954	5.08	1,110
1944	Nov. 10, 1943	5.22	1,200		May 30, 1954	4.90	1,020
	Apr. 11, 1944	5.06	1,120		Sept.12, 1954	5.84	1,540
	June 25, 1944	6.47	1,970				
				1955	Aug. 14, 1955	6.21	1,790
1945	Mar. 29, 1945	5.00	1,090				
	Apr. 26, 1945	5.23	1,200	1956	Apr. 30, 1956	5.98	1,630
					May 28, 1956	5.84	1,540
1946	Dec. 8, 1945	5.56	1,380				
	Mar. 15, 1946	4.70	955	1957	Nov. 22, 1956	3.35	430
					Jan. 24, 1957	a4.32	-
1947	Apr. 12, 1947	6.10	1,710				
				1958	Dec. 21, 1957	5.53	1,360
1948	Mar. 22, 1948	5.21	1,180		Apr. 22, 1958	6.27	1,830
	Mar. 28, 1948	5.07	1,100		Apr. 30, 1958	4.81	975
	Apr. 2, 1948	5.50	1,340				
				1959	Apr. 3, 1959	5.24	1,190
1949	Jan. 1, 1949	4.94	1,040		Apr. 3, 1959	a5.36	-
1950	Apr. 5, 1950	5.24	1,200	1960	Oct. 25, 1959	6.20	1,780
	Apr. 21, 1950	6.39	1,910		Nov. 28, 1959	6.44	1,950
					Apr. 1, 1960	-	1,150
1951	Nov. 26, 1950	5.87	1,560		Apr. 5, 1960	6.37	1,760
	Mar. 31, 1951	5.77	1,500		Apr. 16, 1960	5.58	1,290

a Backwater from ice.

1505. Mascoma River at Mascoma, N.H.

Location.--Lat 43°39'00", long 72°11'05", on left bank at Mascoma, Grafton County, 250 ft downstream from railroad bridge and 1,000 ft downstream from outlet of Mascoma Lake.

Drainage area.--153 sq mi.

Gage.--Recording. Altitude of gage is 740 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended above on basis of flow-over-dam measurements at 4,400 cfs and 5,840 cfs.

Remarks.--Flow regulated by Mascoma and Crystal Lakes and Goose and Grafton Ponds (total usable capacity, 1,060,000,000 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)
1924	Apr. 20, 1924	5.12	2,060	1942	June 16, 1942	5.23	1,940
1925	Mar. 30, 1925	6.25	3,540	1943	Apr. 29, 1943	4.67	1,260
				1944	June 26, 1944	5.23	1,920
1926	Apr. 26, 1926	5.57	2,680	1945	Mar. 22, 1945	4.66	1,340
1927	Mar. 20, 1927	4.51	1,320				
1928	Nov. 5, 1927	5.94	3,230	1946	Dec. 9, 1945	4.81	1,520
1929	Mar. 24, 1929	4.42	1,230	1947	Apr. 13, 1947	5.28	2,010
1930	Apr. 9, 1930	4.51	1,330	1948	Apr. 3, 1948	4.69	1,410
				1949	Mar. 29, 1949	4.04	984
1931	July 23, 1931	5.23	2,240	1950	Apr. 22, 1950	5.04	1,750
1932	Apr. 13, 1932	5.87	2,520				
1933	Apr. 19, 1933	6.67	3,630	1951	Apr. 4, 1951	5.62	2,700
1934	Apr. 13, 1934	6.55	3,500	1952	June 3, 1952	4.72	1,790
1935	Jan. 12, 1935	4.46	1,120	1953	Mar. 27, 1953	6.03	4,880
				1954	Apr. 19, 1954	4.48	2,030
1936	Mar. 19, 1936	7.50	5,840	1955	Aug. 15, 1955	3.93	1,600
1937	May 16, 1937	4.98	1,570				
1938	Sept.22, 1938	6.85	4,400	1956	May 1, 1956	4.19	1,830
1939	Apr. 23, 1939	5.64	2,500	1957	Apr. 3-4,1957	1.70	305
1940	May 5, 1940	5.65	2,500	1958	Apr. 24, 1958	4.60	2,230
				1959	Apr. 6-7,1959	3.55	1,290
1941	Nov. 17, 1940	3.68	658	1960	Apr. 6, 1960	4.69	2,320

1515. Ottauquechee River at North Hartland, Vt.

Location.--Lat 43°36'05", long 72°21'20", on left bank 300 ft upstream from highway bridge at North Hartland, Windsor County, and 1 mile upstream from mouth.

Drainage area.--Area, 221 sq mi. Area of lakes, reservoirs, and ponds, 0.36 sq mi. Length of main stream, 39.6 miles. Average slope above gage, 27.1 ft per mile. Average tributary slope, 241 ft per mile. Average land slope, 1,090 ft per mile. Stream density, 1.76 miles per square mile. Mean altitude of basin, 1,514 ft.

Gage.--Recording. Datum of gage is 336.77 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,200 cfs and extended above on basis of flow-over-dam measurements at 19,200, 24,400, and 30,400 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants above station. Small seasonal storage in reservoir at Plymouth. Base for partial-duration series, 5,500 cfs.

Peak stages and discharges of Ottauquechee River at North Hartland, Vt.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	November 1927	21.5	a30,400	1945	Apr. 26, 1945	9.70	8,090
1931	July 22, 1931	8.10	5,510	1946	Mar. 9, 1946	c12.56	b5,700
1932	Apr. 12, 1932	8.24	5,650	1947	Apr. 12, 1947	9.48	7,720
1933	Nov. 19, 1932	9.50	7,780	1948	Mar. 22, 1948	11.58	11,400
	Apr. 18, 1933	11.05	10,400	1949	Dec. 31, 1948	12.62	13,300
1934	Apr. 12, 1934	12.17	12,700				
	Apr. 25, 1934	8.30	5,810	1950	Apr. 5, 1950	8.23	5,630
1935	Jan. 10, 1935	-	b5,500	1951	Nov. 26, 1950	8.68	6,360
					Mar. 31, 1951	9.14	7,140
1936	Mar. 12, 1936	b12.2	b12,700		Apr. 11, 1951	8.37	5,850
	Mar. 18, 1936	15.58	19,200				
	Mar. 21, 1936	10.40	9,350	1952	Apr. 6, 1952	8.46	6,000
					June 1, 1952	14.09	16,300
1937	Feb. 22, 1937	9.90	8,460				
	Apr. 6, 1937	8.42	5,970	1953	Mar. 24, 1953	11.15	10,500
	May 15, 1937	8.70	6,450		Mar. 27, 1953	11.62	11,400
1938	Sept.21, 1938	17.68	24,400	1954	Apr. 12, 1954	7.95	5,080
1939	Apr. 22, 1939	8.49	6,060	1955	Aug. 13, 1955	-	b6,800
1940	May 3, 1940	10.01	8,600	1956	Jan. 13, 1956	10.62	-
	June 13, 1940	8.30	5,740		Apr. 5, 1956	8.85	6,460
					Apr. 30, 1956	9.42	7,390
1941	Apr.14 or 15, 1941	6.44	2,960	1957	Jan. 23, 1957	c8.55	-
1942	Apr. 8, 1942	9.16	7,240	1958	Dec. 21, 1957	8.59	6,040
	Apr. 16, 1942	8.35	5,900		Apr. 18, 1958	9.34	7,260
					Apr. 22, 1958	10.13	8,610
1943	Apr. 28, 1943	8.12	5,420				
				1959	Apr. 3, 1959	c10.51	6,700
1944	Nov. 9, 1943	8.53	6,110				
	Apr. 10, 1944	8.44	5,960	1960	Apr. 5, 1960	9.01	a6,720

a Annual peak only.
b About.
c Backwater from ice.

1525. Sugar River at West Claremont, N.H.

Location.--Lat 43°23'15", long 72°21'45", on right bank 0.2 mile downstream from Redwater Brook at West Claremont, Sullivan County.

Drainage area.--Area, 269 sq mi. Length of main stream, 33.8 miles. Average slope above gage, 27.4 ft per mile. Average tributary slope, 157 ft per mile. Average land slope, 615 ft per mile. Stream density, 1.59 miles per square mile. Mean altitude of basin, 1,246 ft.

Gage.--Recording. Datum of gage is 358.78 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs and extended above on basis of flow-over-dam measurements at 13,100 and 14,000 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by mills above station and by Sunapee Lake. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Sugar River at West Claremont, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 23, 1929	5.16	3,440
1930	Mar. 8, 1930	5.20	3,310
1931	Apr. 11, 1931	5.27	3,380
1932	Apr. 1, 1932	5.36	3,550
	Apr. 12, 1932	5.80	4,080
1933	Nov. 20, 1932	5.52	3,650
	Apr. 8, 1933	5.50	3,650
	Apr. 18, 1933	7.27	6,530
1934	Apr. 3, 1934	5.20	3,240
	Apr. 12, 1934	9.26	10,500
1935	Jan. 10, 1935	6.52	5,160
	July 8, 1935	5.46	3,650
1936	Mar.12,13,1936	a11.80	6,180
	Mar. 19, 1936	10.92	14,000
	Apr. 6, 1936	5.50	3,650
1937	Feb. 22, 1937	5.40	3,510
	May 15, 1937	6.25	4,680
	June 18, 1937	7.46	6,890
1938	Sept.21, 1938	10.49	13,100
1939	Dec. 6, 1938	5.96	4,380
	Dec. 10, 1938	5.40	3,510
	Apr. 20, 1939	7.13	6,180
1940	Apr. 13, 1940	6.70	5,970
	Apr. 20, 1940	5.50	3,780
	May 5, 1940	7.46	7,490
	June 1, 1940	5.08	3,160
1941	Dec. 31, 1940	3.98	1,820
1942	Apr. 8, 1942	4.98	3,020
	June 15, 1942	5.60	3,950
1943	Apr. 28, 1943	4.88	2,880
	May 13, 1943	4.90	2,880
1944	Nov. 9, 1943	5.22	3,340
	Apr. 10, 1944	5.18	3,280
	June 25, 1944	6.74	6,050
1945	Mar. 21, 1945	5.25	3,380
	Mar. 28, 1945	5.19	3,300
	Apr. 5, 1945	5.09	3,150
	Apr. 26, 1945	-	b3,700
	May 14, 1945	5.39	3,600
1946	Mar. 15, 1946	5.02	3,050
1947	Apr. 12, 1947	6.25	5,120
1948	Mar. 28, 1948	6.48	5,550
	Mar. 28, 1948	5.10	3,160
1949	Jan. 1, 1949	5.45	3,700
1950	Mar. 29, 1950	5.02	3,050
	Apr. 5, 1950	5.52	3,810
	Apr. 21, 1950	5.18	3,280
1951	Nov. 26, 1950	7.44	7,380
	Mar. 31, 1951	6.36	5,320
	Apr. 3, 1951	7.52	7,530
	Apr. 11, 1951	5.98	4,620
1952	Nov. 3, 1951	-	(c)
	Apr. 6, 1952	6.13	4,890
	Apr. 14, 1952	5.03	3,060
	June 2, 1952	5.20	3,310
1953	Mar. 16, 1953	5.25	3,380
	Mar. 25, 1953	6.17	4,970
	Mar. 27, 1953	7.86	8,170
	Mar. 30, 1953	5.72	4,160
1954	Dec. 7, 1953	5.05	3,090
	Apr. 18, 1954	6.06	4,770
	May 11, 1954	5.28	3,430
	Sept.12, 1954	5.17	3,260
1955	Aug. 14, 1955	6.66	5,890
1956	Apr. 17, 1956	-	b4,500
	Apr. 29, 1956	6.27	5,150
1957	Jan. 23, 1957	5.91	4,500
1958	Dec. 21, 1957	5.26	3,400
	Apr. 19, 1958	6.24	5,100
	Apr. 22, 1958	6.07	4,790
	Apr. 30, 1958	5.72	4,160
1959	Jan. 22, 1959	a7.49	-
	Apr. 3, 1959	6.38	5,360
1960	Oct. 25, 1959	6.02	4,700
	Nov. 29, 1959	5.28	3,430
	Apr. 1, 1960	5.59	3,930
	Apr. 5, 1960	7.64	7,760
	Apr. 16, 1960	5.77	4,250
	Sept.13, 1960	5.30	3,460

a Backwater from ice.
b About.
c No record; greater than 3,000 cfs.

1530. Black River at North Springfield, Vt.

Location.--Lat 43°20'00", long 72°30'55", on right bank at North Springfield, Windsor County, 1,300 ft upstream from Great Brook.

Drainage area.--Area, 158 sq mi. Length of main stream, 36.3 miles. Average slope above gage, 27.9 ft per mile. Average tributary slope, 227 ft per mile. Average land slope, 868 ft per mile. Stream density, 1.45 miles per square mile. Mean altitude of basin, 1,494 ft.

Gage.--Recording. Datum of gage is 445.79 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended above on basis of flow-over-dam measurements at 14,700 and 15,500 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by mills above station. Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Apr. 7, 1930	8.98	3,650	1945	Mar. 20, 1945	8.27	3,620
					Apr. 26, 1945	10.59	6,000
1931	May 23, 1931	10.05	4,550				
	July 22, 1931	13.75	10,000	1946	Mar. 9, 1946	a11.38	4,500
1932	Apr. 12, 1932	9.65	4,140	1947	Apr. 12, 1947	10.39	5,370
1933	Nov. 20, 1932	11.17	5,510	1948	Mar. 22, 1948	12.35	7,700
	Apr. 18, 1933	10.75	5,160		Apr. 1, 1948	9.01	3,950
1934	Apr. 12, 1934	13.84	10,000	1949	Dec. 31, 1948	13.17	8,780
	Apr. 16, 1934	9.03	3,690				
	Apr. 25, 1934	10.10	4,580	1950	Apr. 20, 1950	8.53	3,520
1935	Jan. 10, 1935	8.71	3,450	1951	Nov. 26, 1950	9.36	4,300
					Mar. 31, 1951	9.92	4,860
1936	Mar. 12, 1936	11.40	6,370		Apr. 11, 1951	9.72	4,660
	Mar. 18, 1936	16.41	14,700				
	Mar. 21, 1936	10.50	5,300	1952	Apr. 6, 1952	10.25	5,220
	Apr. 6, 1936	10.60	5,410		June 1, 1952	16.09	13,000
1937	Feb. 22, 1937	11.00	5,800	1953	Dec. 12, 1952	10.08	5,030
					Mar. 24, 1953	12.50	7,890
1938	Sept.22, 1938	17.68	15,500		Mar. 27, 1953	11.13	6,200
1939	Dec. 6, 1938	9.23	4,550	1954	Mar. 4, 1954	9.00	3,940
	Apr. 22, 1939	9.01	4,350				
	Apr. 26, 1939	8.30	3,650	1955	Apr. 11, 1955	8.78	3,740
					Aug. 13, 1955	10.48	5,470
1940	Apr. 12, 1940	8.90	4,250				
	May 3, 1940	10.66	6,120	1956	Apr. 29, 1956	10.51	5,500
1941	Apr. 14, 1941	5.97	1,630	1957	Jan. 23, 1957	a9.24	2,300
1942	Apr. 8, 1942	9.33	4,650	1958	Dec. 21, 1957	7.78	6,460
					Apr. 18, 1958	7.62	6,120
1943	Apr. 28, 1943	8.82	4,150		Apr. 23, 1958	7.33	5,540
	May 26, 1943	8.67	4,050				
				1959	Apr. 3, 1959	a7.36	4,500
1944	Nov. 9, 1943	10.18	5,550				
				1960	June 4, 1960	7.70	b6,300
1945	Mar. 18, 1945	8.39	3,740				

a Backwater from ice.
b Annual peak only.

1535. Williams River at Brockways Mills, Vt.

Location.--Lat 43°12'30", long 72°31'05", on left bank 25 ft upstream from highway bridge at Brockways Mills, Windham County, 4 miles downstream from Hall Brook, 4.6 miles upstream from mouth, and 6 miles northwest of Bellows Falls.

Drainage area.--Area, 103 sq mi. Length of main stream, 21.6 miles. Average slope above gage, 56.5 ft per mile.

Gage.--Recording. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,300 cfs and extended above on basis of slope-area measurement at 8,830 cfs. Minor changes in relation occur.

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)
1938	September 1938	22.7	-	1952	Apr. 6, 1952	9.29	4,810
					May 12, 1952	7.42	3,000
1941	Feb. 8, 1941	a7.74	2,580		June 1, 1952	13.39	8,910
1942	Apr. 8, 1942	7.07	2,690	1953	Dec. 12, 1952	8.88	4,400
					Mar. 16, 1953	7.58	3,140
1943	Apr. 28, 1943	7.76	3,320		Mar. 24, 1953	10.97	6,490
	May 12, 1943	8.09	3,650		Mar. 27, 1953	8.04	3,560
	May 26, 1943	7.38	2,960				
				1954	Apr. 17, 1954	6.94	2,150
1944	Nov. 9, 1943	8.75	4,360				
	June 24, 1944	7.22	2,820	1955	Nov. 3, 1954	7.92	2,740
					Aug. 13, 1955	8.02	2,800
1945	Apr. 26, 1945	9.31	5,030				
	May 13, 1945	6.99	2,620	1956	Oct. 31, 1955	7.90	2,730
					Apr. 17, 1956	7.80	3,250
1946	Mar. 9, 1946	a9.39	2,630		Apr. 29, 1956	9.55	4,850
1947	Apr. 12, 1947	8.97	4,620	1957	Jan. 23, 1957	6.15	2,000
					Jan. 23, 1957	a7.04	-
1948	Mar. 22, 1948	10.43	5,950				
	Apr. 1, 1948	7.25	2,840	1958	Dec. 21, 1957	a7.66	-
					Dec. 21, 1957	7.57	3,070
1949	Dec. 31, 1948	13.31	8,830		Apr. 18, 1958	7.48	2,990
					Apr. 23, 1958	7.22	2,790
1950	Apr. 5, 1950	7.19	2,790				
	Apr. 20, 1950	7.03	2,650	1959	Jan. 22, 1959	a9.08	-
					Apr. 3, 1959	7.77	3,230
1951	Nov. 26, 1950	8.24	3,760				
	Mar. 31, 1951	9.34	4,860	1960	Oct. 24, 1959	9.71	5,010
	Apr. 11, 1951	8.23	3,750		Nov. 28, 1959	8.29	3,660
	Apr. 13, 1951	7.10	2,710		Apr. 5, 1960	9.97	5,270
					Apr. 15, 1960	7.06	2,660
1952	Oct. 8, 1951	7.38	2,960		June 4, 1960	8.00	3,410
	Nov. 3, 1951	7.03	2,650		Sept.12, 1960	9.41	4,710

a Backwater from ice.

1540. Saxtons River at Saxtons River, Vt.

Location.--Lat 43°08'15", long 72°29'15", on right bank 130 ft upstream from highway bridge, 0.8 mile east of Saxtons River, Windham County, 1.4 miles upstream from Bundy Brook, and 3.9 miles upstream from mouth.

Drainage area.--Area, 72.2 sq mi. Length of main stream, 21.6 miles. Average slope above gage, 56.5 ft per mile.

Gage.--Recording. Altitude of gage is 390 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs and extended above on basis of slope-area measurements at 4,660 and 5,430 cfs. Minor changes in relation occur.

Historical data.--Flood of September 1938 reached a stage of 17.9 ft, from floodmarks.

Remarks.--Occasional diurnal fluctuation at low flow caused by sawmill above station. Base for partial-duration series, 1,750 cfs.

Peak stages and discharges of Saxtons River at Saxtons River, Vt.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	September 1938	17.9	-	1952	Nov. 3, 1951	8.04	2,530
					Nov. 7, 1951	7.04	1,780
1941	Feb. 8, 1941	6.82	1,680		Apr. 5, 1952	9.08	3,370
					Apr. 14, 1952	7.06	1,790
1942	Mar. 9, 1942	a8.62	2,040		June 1, 1952	11.37	5,430
1943	Apr. 28, 1943	7.01	1,800	1953	Dec. 12, 1952	9.03	3,330
	May 12, 1943	7.37	2,040		Mar. 16, 1953	7.85	2,380
	May 26, 1943	7.06	1,860		Mar. 24, 1953	10.51	4,660
1944	Nov. 9, 1943	8.00	2,460	1954	Mar. 3, 1954	7.74	2,290
	Apr. 24, 1944	7.10	1,860		Apr. 17, 1954	7.25	1,920
	June 24, 1944	6.98	1,790				
				1955	Nov. 3, 1954	7.48	2,090
1945	Apr. 26, 1945	8.00	2,460		Aug. 13, 1955	7.58	2,160
	May 13, 1945	7.02	1,810				
				1956	Oct. 17, 1955	7.54	2,130
1946	Mar. 9, 1946	(a)	b1,700		Oct. 31, 1955	8.72	3,080
					Apr. 16, 1956	7.94	2,450
1947	Apr. 12, 1947	7.14	1,880		Apr. 29, 1956	8.15	2,620
1948	Mar. 22, 1948	9.17	3,450	1957	Jan. 23, 1957	-	-
	Apr. 1, 1948	7.88	2,530				
				1958	Dec. 21, 1957	7.82	2,360
1949	Dec. 30, 1948	10.51	4,660		Dec. 26, 1957	7.15	1,860
					Apr. 18, 1958	7.19	1,880
1950	Apr. 4, 1950	7.04	1,780		Apr. 23, 1958	7.07	1,800
	Apr. 20, 1950	7.09	1,820				
				1959	Jan. 22, 1959	a12.34	-
1951	Nov. 26, 1950	8.04	2,590		Apr. 3, 1959	8.03	2,520
	Mar. 31, 1951	9.52	4,070				
	Apr. 11, 1951	7.73	2,320	1960	Oct. 24, 1959	9.84	4,060
	Apr. 13, 1951	7.23	1,920		Apr. 4, 1960	9.21	3,490
					Sept. 12, 1960	11.57	5,610
1952	Oct. 8, 1951	7.92	2,440				

a Backwater from ice.
b About.

1545. Connecticut River at North Walpole, N.H.

Location.--Lat 43°07'35", long 72°26'15", on left bank at North Walpole, Cheshire County, 100 ft upstream from Saxtons River and 0.7 mile downstream from Vilas Bridge between Bellows Falls, Vt., and North Walpole, N.H.

Drainage area.--Area, 5,493 sq mi (includes that of Saxtons River). Area of lakes, reservoirs, and ponds, 43.2 sq mi. Length of main stream, 225 miles. Average slope above gage, 4.60 ft per mile.

Gage.--Recording. Datum of gage is 218.63 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Historical data.--Flood of Mar. 19, 1936, reached a stage of 43.8 ft, from floodmarks.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Comerford Station Pond, and other reservoirs. Base for partial-duration series, 44,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 19, 1936	43.8	-	1944	Apr. 11, 1944	20.55	51,900
					Apr. 25, 1944	19.30	46,000
1942	Apr. 8, 1942	21.48	54,400				
	Apr. 18, 1942	20.14	48,100	1945	Mar. 18, 1945	21.08	54,100
					Mar. 21, 1945	22.63	61,800
1943	Apr. 28, 1943	21.04	53,700		Apr. 1, 1945	20.24	50,300
	May 13, 1943	20.18	50,100		Apr. 6, 1945	19.89	48,700
					Apr. 26, 1945	19.85	48,500
1944	Nov. 9, 1943	20.91	53,300				

Peak stages and discharges of Connecticut River at North Walpole, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 10, 1946	a23.21	-	1954	Apr. 12, 1954	19.73	47,500
	Mar. 15, 1946	(a)	b54,000		Apr. 18, 1954	21.98	57,600
1947	Apr. 13, 1947	25.15	71,900		May 11, 1954	19.82	47,900
	June 4, 1947	24.04	66,900	1955	Apr. 16, 1955	23.50	64,400
1948	Mar. 22, 1948	29.55	93,000	1956	Apr. 17, 1956	21.26	54,400
	Mar. 28, 1948	20.60	51,400		Apr. 30, 1956	23.99	66,700
	Apr. 3, 1948	19.40	46,000	1957	Jan. 23, 1957	17.67	38,900
1949	Dec. 31, 1948	24.95	71,000	1958	Dec. 21, 1957	22.00	57,700
1950	Apr. 6, 1950	22.05	57,900		Apr. 23, 1958	26.13	76,300
	Apr. 22, 1950	21.16	53,900	1959	Apr. 4, 1959	27.70	83,700
1951	Nov. 26, 1950	20.02	48,800	1960	Oct. 25, 1959	21.11	53,700
	Mar. 31, 1951	24.43	68,600		Nov. 29, 1959	24.94	70,900
	Apr. 12, 1951	22.74	61,000		Apr. 3, 1960	23.81	65,800
1952	Apr. 6, 1952	23.61	64,900		Apr. 5, 1960	29.85	94,400
	Apr. 15, 1952	20.64	51,600		Apr. 19, 1960	21.22	54,200
	June 2, 1952	27.30	81,700				
1953	Mar. 27, 1953	30.37	97,000				

a Backwater from ice.
b About.

1550. Cold River at Drewsville, N.H.

Location.--Lat 43°07'55", long 72°23'25", on left bank 50 ft upstream from bridge on State Highway 101 at Drewsville, Cheshire County, 1.0 mile upstream from Great Brook, 2.7 miles east of Bellows Falls, Vt., and 3.4 miles upstream from mouth.

Drainage area.--Area, 82.7 sq mi. Area of lakes, reservoirs, and ponds, 0.71 sq mi. Length of main stream, 20.4 miles. Average slope above gage, 49.0 ft per mile.

Gage.--Recording. Altitude of gage is 375 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,400 cfs and extended above by logarithmic plotting. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Feb. 8, 1941	6.18	1,090	1948	Mar. 22, 1948	8.08	3,290
1942	Mar. 9, 1942	7.65	2,630		Mar. 28, 1948	6.26	1,340
1943	Apr. 28, 1943	5.74	970	1949	Jan. 6, 1949	6.63	1,400
1944	Nov. 9, 1943	7.55	2,740	1950	Mar. 29, 1950	6.53	1,380
	Apr. 10, 1944	6.38	1,460	1951	Nov. 26, 1950	10.29	8,160
	Apr. 25, 1944	5.97	1,150		Mar. 31, 1951	6.72	1,620
	June 25, 1944	6.15	1,280		Apr. 3, 1951	8.20	3,360
1945	Mar. 21, 1945	6.22	1,340	1952	Oct. 8, 1951	6.48	1,400
	Mar. 27, 1945	6.29	1,390		Nov. 3, 1951	7.77	2,770
	Apr. 5, 1945	6.64	1,700		Apr. 6, 1952	7.52	2,470
	Apr. 26, 1945	7.47	2,630		June 1, 1952	7.02	1,940
	May 13, 1945	6.14	1,270	1953	Jan. 25, 1953	6.72	1,670
	June 20, 1945	7.78	3,040		Mar. 13, 1953	6.64	1,600
1946	Mar. 9, 1946	a7.16	b1,400		Mar. 16, 1953	6.63	1,590
	May 28, 1946	6.94	1,940		Mar. 24, 1953	7.26	2,190
1947	Mar. 25, 1947	6.06	1,190		Mar. 27, 1953	6.55	1,530
	Apr. 12, 1947	6.31	1,380		Mar. 30, 1953	6.78	1,720

a Backwater from ice.
b About.

Peak stages and discharges of Cold River at Drewsville, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Dec. 7, 1953	6.93	1,860	1958	Dec. 21, 1957	6.56	1,650
	Feb. 22, 1954	-	b1,200		Apr. 18, 1958	6.91	1,970
	Mar. 4, 1954	5.95	1,180		Apr. 30, 1958	6.32	1,460
	Apr. 18, 1954	7.19	2,270				
	Sept.11, 1954	6.96	2,020	1959	Apr. 3, 1959	a7.68	2,200
1955	May 31, 1955	6.03	1,240	1960	Oct. 24, 1959	8.03	3,190
					Nov. 28, 1959	6.72	1,790
1956	Apr. 17, 1956	6.83	1,890		Mar. 31, 1960	6.71	1,740
	Apr. 29, 1956	7.21	2,290		Apr. 4, 1960	7.95	3,100
					Apr. 15, 1960	6.07	1,270
1957	Jan. 23, 1957	5.74	1,040		May 24, 1960	6.43	1,520
	Jan. 23, 1957	a6.03	-		Sept.12, 1960	6.61	1,660

a Backwater from ice.
b About.

1555. West River at Jamaica, Vt.

Location.--Lat 43°06'30", long 72°46'30", on left bank a quarter of a mile upstream from highway bridge at Jamaica, Windham County, and 0.4 mile upstream from Ball Mountain Brook.

Drainage area.--179 sq mi.

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

Stage-discharge relation.--Defined by current-meter measurements below 9,800 cfs and extended above by logarithmic plotting verified by slope-area measurement at 29,500 cfs.

Remarks.--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)
1947	Apr. 12, 1947	10.48	9,110	1953	Mar. 24, 1953	10.83	10,100
					Mar. 27, 1953	10.26	8,380
1948	Mar. 22, 1948	10.96	10,600				
	Mar. 28, 1948	8.74	4,670	1954	Dec. 7, 1953	8.75	4,460
	Apr. 1, 1948	8.67	4,530				
				1955	Nov. 3, 1954	10.62	9,460
1949	Dec. 31, 1948	14.87	29,500		Apr. 11, 1955	8.98	4,970
					Apr. 15, 1955	9.36	5,870
1950	Apr. 5, 1950	9.12	4,850		Aug. 13, 1955	9.77	6,950
	Apr. 20, 1950	9.01	4,630				
				1956	Oct. 17, 1955	9.50	6,220
1951	Nov. 26, 1950	11.38	11,700		Apr. 29, 1956	10.14	8,020
	Dec. 5, 1950	9.09	4,790				
	Mar. 31, 1951	9.24	5,120	1957	Jan. 23, 1957	9.49	6,200
	Apr. 11, 1951	9.00	4,610		Jan. 23, 1957	b9.54	-
1952	Oct. 8, 1951	9.15	4,920	1958	Dec. 21, 1957	9.79	7,000
	Apr. 5 or 6, 1952	-	(a)		Apr. 22, 1958	9.25	5,600
	May 12, 1952	-	(a)	1959	Jan. 22, 1959	b9.35	-
	June 1, 1952	13.97	24,100		Apr. 8, 1959	8.56	4,070
1953	Dec. 12, 1952	9.78	6,970	1960	Nov. 28, 1959	9.60	c6,480

a Not determined; probably greater than base discharge.
b Backwater from ice.
c Annual peak only.

1560. West River at Newfane, Vt.

Location.--Lat 42°59'45", long 72°38'20", on right bank 600 ft downstream from highway bridge and 1 mile northeast of Newfane, Windham County.

Drainage area.--Area, 308 sq mi. Length of main stream, 36.8 miles. Average slope above gage, 31.7 ft per mile. Average tributary slope, 200 ft per mile. Average land slope, 806 ft per mile. Stream density, 1.53 miles per square mile. Mean altitude of basin, 1,655 ft.

Gage.--Nonrecording prior to June 27, 1931; recording thereafter. Datum of gage is 384.21 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended above on basis of contracted-opening measurement at 39,000 cfs and slope-area measurements at 39,600 and 52,300 cfs. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 8,800 cfs. Only annual peaks prior to 1932.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Apr. 12, 1920	11.9	11,500	1945	Apr. 26, 1945	10.71	11,400
1921	Mar. 9, 1921	11.9	11,500	1946	Mar. 9, 1946	10.08	9,620
1922	Apr. 12, 1922	12.3	12,400	1947	Apr. 12, 1947	12.22	15,800
1923	Apr. 29, 1923	10.2	7,860	1948	Mar. 22, 1948	13.35	21,000
					Apr. 1, 1948	9.76	9,480
1928	Nov. 3, 1927	23.0	45,000				
				1949	Dec. 31, 1948	19.46	39,600
1929	Mar. 24, 1929	11.5	10,600				
				1950	Apr. 5, 1950	10.27	11,000
1930	Apr. 7, 1930	9.3	6,140		Apr. 20, 1950	9.86	9,680
1931	Apr. 11, 1931	12.0	15,200	1951	Nov. 26, 1950	13.27	20,800
					Dec. 5, 1950	9.71	9,230
1932	Apr. 12, 1932	10.13	9,130		Mar. 31, 1951	11.08	13,600
					Apr. 11, 1951	9.91	9,830
1933	Nov. 19, 1932	11.92	13,800				
	Apr. 19, 1933	11.15	11,900	1952	Oct. 8, 1951	10.04	10,200
					Apr. 6, 1952	10.59	12,000
1934	Apr. 12, 1934	11.58	13,000		May 12, 1952	9.64	9,020
					June 1, 1952	16.75	31,000
1935	Jan. 10, 1935	a11.27	b9,370				
	July 8, 1935	10.90	11,100	1953	Dec. 12, 1952	10.87	12,900
					Mar. 16, 1953	10.22	10,700
1936	Mar. 12, 1936	a15.77	b17,000		Mar. 24, 1953	12.40	17,900
	Mar. 18, 1936	19.30	39,000		Mar. 27, 1953	11.21	14,000
	Apr. 6, 1936	10.43	9,710				
				1954	Dec. 7, 1953	9.33	7,890
1937	Feb. 22, 1937	10.70	10,600				
	May 15, 1937	10.51	10,100	1955	Nov. 3, 1954	12.52	18,300
					Apr. 11, 1955	9.63	8,800
1938	Sept.21, 1938	22.81	52,300		Apr. 16, 1955	10.08	10,300
					Aug. 13, 1955	10.56	11,900
1939	Apr. 25, 1939	9.95	8,790				
				1956	Oct. 15, 1955	11.42	14,600
1940	Apr. 12, 1940	10.14	9,680		Oct. 31, 1955	9.76	9,210
	Apr. 18, 1940	9.79	8,810		Apr. 17, 1956	9.63	8,800
	May 3, 1940	10.92	12,000		Apr. 29, 1956	11.42	14,600
1941	Feb. 8, 1941	a11.02	4,810	1957	Jan. 23, 1957	10.30	11,000
	Apr. 14, 1941	8.32	4,810				
				1958	Dec. 21, 1957	10.78	12,600
1942	Apr. 8, 1942	10.48	10,800		Apr. 23, 1958	10.53	11,800
1943	Apr. 28, 1943	10.53	10,800	1959	Jan. 22, 1959	a12.95	-
	May 12, 1943	10.41	10,600		Apr. 3, 1959	9.11	7,230
1944	Nov. 9, 1943	11.80	14,600	1960	Apr. 5, 1960	11.01	c13,300
	Apr. 25, 1944	10.39	10,500				
	June 24, 1944	10.42	10,600				

a Backwater from ice.
b About.
c Annual peak only.

1565. Connecticut River at Vernon, Vt.

Location.--Lat 42°46'10", long 72°30'50", on right bank just downstream from Vernon Dam at Vernon, Windham County, and 2 miles upstream from Ashuelot River.

Drainage area.--Area, 6,266 sq mi. Area of lakes, reservoirs, and ponds, 46.1 sq mi. Length of main stream, 25.6 miles. Average slope above gage, 4.10 ft per mile.

Gage.--Recording. At datum 94.13 ft higher prior to Jan. 20, 1948. Datum of gage is mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Prior to 1945, defined by current-meter measurements below 69,000 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore Reservoir, Comerford Station Pond, and other reservoirs (combined usable capacity, about 20 billion cubic feet). 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)
1936	Mar.19-20,1936	128.8	176,000	1952	Apr. 6, 1952	202.29	76,200
					Apr. 12, 1952	197.31	56,200
1938	Sept.22, 1938	120.7	132,500		Apr. 15, 1952	198.04	59,200
					June 2, 1952	204.89	86,600
1945	Mar. 22, 1945	106.65	69,700				
	Mar. 30, 1945	103.00	56,400	1953	Mar. 28, 1953	207.96	98,800
	Apr. 6, 1945	103.10	56,800				
	Apr. 26, 1945	103.00	56,400	1954	Apr. 12, 1954	195.76	50,000
					Apr. 18, 1954	199.50	65,000
1946	Mar. 10, 1946	a106.69	b63,000		May 11, 1954	196.44	52,800
	Mar. 15, 1946	104.65	62,700				
				1955	Apr. 16, 1955	200.88	70,500
1947	Apr. 13, 1947	109.16	79,600				
	June 4, 1947	105.25	64,800	1956	Apr.17-18,1956	199.48	64,900
					Apr. 30, 1956	203.14	79,600
1948	Mar. 23, 1948	208.53	101,000				
	Mar. 28, 1948	198.51	61,000	1957	Jan. 24, 1957	a192.36	30,000
	Apr. 2, 1948	197.06	55,200				
				1958	Dec. 22, 1957	199.09	63,400
1949	Dec. 31, 1948	205.40	88,600		Apr. 23, 1958	204.30	84,200
1950	Apr. 6, 1950	200.32	68,300	1959	Apr. 4, 1959	203.40	80,600
	Apr. 22, 1950	198.24	60,000				
				1960	Oct. 25, 1959	198.74	62,000
1951	Nov.26-27,1950	198.27	60,100		Nov. 29, 1959	202.36	76,400
	Mar. 31, 1951	203.55	81,200		Apr. 1, 1960	202.79	78,200
	Apr. 4, 1951	200.49	69,000		Apr. 5, 1960	209.64	107,000
	Apr.13-14,1951	200.01	67,000		Apr. 16, 1960	199.00	63,000

a Backwater from ice.
b About.

1570. Ashuelot River near Gilsum, N.H.

Location.--Lat 43°02'20", long 72°16'15", on right bank 50 ft downstream from White Brook, 60 ft upstream from stone-arch bridge just off Keene-Newport road, and 0.7 mile downstream from Gilsum, Cheshire County.

Drainage area.--Area, 71.1 sq mi. Length of main stream, 22.7 miles. Average slope above gage, 38.5 ft per mile. Average tributary slope, 175 ft per mile. Average land slope, 580 ft per mile. Stream density, 2.17 miles per square mile. Mean altitude of basin, 1,517 ft.

Gage.--Recording. Datum of gage is 773.86 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of float measurements and slope-area measurement at 5,220 cfs. Major changes occurred prior to and during 1938; only minor changes thereafter.

Remarks.--Flow regulated by reservoir above station. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges of Ashuelot River near Gilsum, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Apr. 6, 1923	7.95	1,540
	Apr. 29, 1923	8.25	1,690
1924	Nov. 25, 1923	6.95	1,050
	Dec. 1, 1923	7.16	1,150
	Apr. 8, 1924	7.75	1,430
	Apr. 15, 1924	7.10	1,110
	Apr. 19, 1924	7.55	1,340
1925	Feb. 12, 1925	7.82	1,460
	Mar. 29, 1925	8.25	1,690
1926	Apr. 25, 1926	8.33	1,730
1927	Mar. 15, 1927	6.60	915
1928	Nov. 4, 1927	11.34	3,460
1929	Mar. 23, 1929	6.70	1,190
	Apr. 26, 1929	6.50	1,100
	May 3, 1929	7.18	1,400
1930	Mar. 9, 1930	6.19	955
1931	Apr. 11, 1931	7.90	1,750
1932	Apr. 1, 1932	6.88	1,250
	Apr. 12, 1932	6.94	1,290
1933	Nov. 20, 1932	7.20	1,370
	Apr. 18, 1933	8.64	2,000
1934	Apr. 3, 1934	6.40	1,210
	Apr. 12, 1934	11.27	3,580
	Apr. 17, 1934	6.00	1,040
1935	Dec. 2, 1934	6.00	1,040
	Jan. 10, 1935	a9.20	1,590
	July 7, 1935	10.00	2,840
1936	Mar. 13, 1936	8.44	2,070
	Mar. 19, 1936	12.80	4,400
	Mar. 22, 1936	8.46	2,120
	Apr. 7, 1936	6.12	1,080
1937	May 15, 1937	6.50	1,240
1938	July 29, 1938	5.90	1,000
	Sept.21, 1938	11.24	5,220
1939	Dec. 6, 1938	6.95	1,970
	Apr. 20, 1939	7.10	2,030
	Apr. 23, 1939	6.25	1,530
1940	Apr. 12, 1940	7.70	1,960
	Apr. 20, 1940	5.69	1,000
	May 3, 1940	7.77	2,020
1941	Feb. 9, 1941	a5.18	710
1942	Mar.9,10,1942	a12.27	1,300
1943	Apr. 28, 1943	5.29	758
1944	Nov. 9, 1943	8.27	2,180
	Apr. 10, 1944	6.35	1,160
	June 25, 1944	7.52	1,730
	Sept.15, 1944	6.26	1,120
1945	Mar. 21, 1945	6.46	1,160
	Apr. 5, 1945	6.19	1,050
	Apr. 26, 1945	6.70	1,260
	May 14, 1945	6.23	1,060
	June 20, 1945	7.32	1,560
1946	Mar. 9, 1946	a8.56	1,310
1947	Apr. 13, 1947	6.71	1,420
1948	Mar. 22, 1948	8.60	2,460
	Mar. 28, 1948	6.23	1,130
1949	Jan. 1, 1949	6.74	1,380
	Jan. 6, 1949	6.25	1,140
1950	Mar. 30, 1950	5.92	1,060
	Apr. 6, 1950	6.05	1,120
1951	Nov. 26, 1950	9.31	3,700
	Mar. 31, 1951	6.68	1,500
	Apr. 3, 1951	7.66	2,160
1952	Nov. 3, 1951	6.16	1,200
	Apr. 6, 1952	7.26	1,870
1953	Jan. 25, 1953	6.12	1,080
	Mar. 16, 1953	6.07	1,060
	Mar. 27, 1953	7.21	1,630
	Mar. 30, 1953	6.54	1,280
1954	Dec. 7, 1953	6.34	1,180
	Apr. 18, 1954	6.82	1,420
1955	Nov. 4, 1954	6.35	1,210
1956	Oct. 17, 1955	6.27	1,170
	Jan. 11, 1956	6.02	1,070
	Apr. 17, 1956	6.24	1,160
	Apr. 30, 1956	7.74	1,920
1957	Jan. 23, 1957	4.58	568
1958	Dec. 21, 1957	5.92	1,040
	Apr. 19, 1958	6.72	1,390
	Apr. 30, 1958	5.95	1,050
1959	Jan. 22, 1959	a7.69	-
	Apr. 3, 1959	7.12	1,590
1960	Oct. 25, 1959	8.95	2,700
	Nov. 29, 1959	6.15	1,120
	Apr. 1, 1960	6.79	1,420
	Apr. 5, 1960	9.07	2,780
	Apr. 16, 1960	6.45	1,260
	Sept.20, 1960	-	1,300

a Backwater from ice.

1580. Ashuelot River below Surry Mountain Dam, near Keene, N.H.

Location.--Lat 42°59'45", long 72°18'40", on right bank 600 ft downstream from Surry Mountain Dam, 2½ miles upstream Sturtevant Brook, and 4½ miles north of Keene, Cheshire County.

Drainage area.--101 sq mi.

Gage.--Recording. Datum of gage is 480.00 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

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

Remarks.--Flow regulated by Surry Mountain Reservoir (usable capacity, 1,420,000,000 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)
1946	Mar. 21, 1946	8.25	942	1953	Apr.2-3, 1953	8.43	910
1947	Apr. 29, 1947	8.00	759	1954	Dec.9,14,1953	8.17	820
1948	Apr. 2, 1948	8.70	1,000	1955	Apr. 15, 1955	8.23	840
1949	Jan. 13, 1949	8.65	986				
1950	Mar.31,Apr.9, 1950	8.94	1,090	1956	May 9, 1956	8.67	994
				1957	Jan. 28, 1957	7.50	579
				1958	Apr. 17, 1958	8.69	1,000
1951	Dec. 13, 1950	8.72	1,010	1959	Apr. 7, 1959	9.15	1,160
1952	Nov. 11, 1951	8.23	840	1960	Oct. 28, 1959	9.60	1,320

1585. Otter Brook near Keene, N.H.

Location.--Lat 42°57'55", long 72°14'00", on left bank 10 ft downstream from bridge near State Highway 9, 3½ miles northeast of Keene, Cheshire County, and 3½ miles upstream from Minnewawa Brook.

Drainage area.--Area, 42.3 sq mi. Area of lakes, reservoirs, and ponds, 0.86 sq mi. Length of main stream, 12.2 miles. Average slope above gage, 64.0 ft per mile. Average tributary slope, 193 ft per mile. Average land slope, 660 ft per mile. Stream density, 2.32 miles per square mile. Mean altitude of basin, 1,435 ft.

Gage.--Recording. Datum of gage is 716.11 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs and extended above on basis of surface-float, slope-area, and contracted-opening measurements at 3,580 cfs and 6,130 cfs. Changes in relation occur.

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)
1924	Nov. 25, 1923	4.83	795	1930	Mar. 26, 1930	(b)	a600
	Dec. 1, 1923	5.02	880				
	Apr. 7, 1924	5.98	1,940	1931	Apr. 11, 1931	5.46	1,300
	Apr. 19, 1924	4.85	795				
				1932	Apr. 1, 1932	5.06	988
1925	Feb. 12, 1925	4.99	874		Apr. 12, 1932	4.77	776
	Mar. 29, 1925	4.73	745				
				1933	Nov. 19, 1932	5.02	956
1926	Apr. 25, 1926	-	a440		Apr. 7, 1933	4.62	625
					Apr. 18, 1933	5.71	1,560
1927	Mar. 19, 1927	4.45	595				
				1934	Apr. 2, 1934	4.72	675
1928	Nov. 4, 1927	6.87	3,180		Apr. 12, 1934	6.77	3,020
	Nov. 18, 1927	4.49	615				
	Mar. 14, 1928	4.62	670	1935	Jan. 10, 1935	5.12	960
1929	Mar. 15, 1929	b6.22	1,040	1936	Mar.12,13,1936	b7.77	1,560
	Mar. 23, 1929	5.00	880		Mar. 18, 1936	7.10	3,580
	Apr. 26, 1929	4.64	695		Mar. 22, 1936	5.50	1,460
	May 3, 1929	5.48	1,310		Apr. 6, 1936	4.54	724

a About.
b Backwater from ice.

Peak stages and discharges of Otter Brook near Keene, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 14, 1937	5.40	1,320	1948	Mar. 22, 1948	5.87	1,490
					Mar. 28, 1948	5.09	1,020
1938	Nov. 29, 1937	4.65	706				
	Jan. 25, 1938	4.73	757	1949	Jan. 1, 1949	b4.84	713
	July 29, 1938	5.50	1,420		Jan. 6, 1949	5.05	842
	Aug. 2, 1938	4.73	757				
	Sept.21, 1938	7.93	6,130	1950	Mar. 29, 1950	4.65	648
					Apr. 5, 1950	4.69	674
1939	Dec. 6, 1938	4.99	942		Sept. 1, 1950	5.78	1,380
	Apr. 19, 1939	5.43	1,360				
	Apr. 22, 1939	4.91	882	1951	Nov. 26, 1950	7.74	3,540
					Dec. 5, 1950	4.95	835
1940	Apr. 12, 1940	b5.99	1,700		Mar. 31, 1951	6.06	1,380
	Apr. 19, 1940	4.68	706		Apr. 3, 1951	6.26	1,500
	May 3, 1940	5.10	1,030				
				1952	Nov. 3, 1951	4.99	780
1941	Feb. 10, 1941	b4.62	a440		Apr. 6, 1952	5.41	1,010
1942	Mar. 9, 1942	b5.80	a1,040	1953	Mar. 16, 1953	5.29	944
					Mar. 27, 1953	5.03	802
1943	Apr. 28, 1943	4.32	472		Mar. 30, 1953	4.71	626
1944	Nov. 9, 1943	5.56	1,480	1954	Dec. 7, 1953	4.69	614
	Apr. 10, 1944	4.62	664		Apr. 18, 1954	5.52	1,070
	June 25, 1944	5.51	1,430				
	Sept.15, 1944	5.43	1,340	1955	Nov. 3, 1954	4.99	780
1945	Mar. 21, 1945	4.69	713	1956	Oct. 17, 1955	5.40	1,000
	Mar. 27, 1945	4.77	769		Jan. 10, 1956	5.43	1,020
	Apr. 5, 1945	4.79	783		Apr. 17, 1956	4.91	736
	Apr. 26, 1945	4.73	741		Apr. 30, 1956	5.97	1,320
	May 16, 1945	4.60	650				
	June 20, 1945	5.68	1,620	1957	Jan. 23, 1957	4.40	480
					Jan. 23, 1957	b6.34	-
1946	Mar. 9, 1946	5.29	1,200				
1947	Apr. 12, 1947	-	a700				

a About.
b Backwater from ice.

1600. South Branch Ashuelot River at Webb, near Marlboro, N.H.

Location.--Lat 42°52'20", long 72°12'55", on right bank 15 ft downstream from bridge, 800 ft southwest of Webb station on Boston and Maine Railroad, and 2½ miles south of Marlboro, Cheshire County.

Drainage area.--Area, 36.0 sq mi. Area of lakes, reservoirs, and ponds, 0.53 sq mi. Length of main stream, 9.5 miles. Average slope above gage, 100 ft per mile. Average tributary slope, 246 ft per mile. Average land slope, 522 ft per mile. Stream density, 2.17 miles per square mile. Mean altitude of basin, 1,277 ft.

Gage.--Recording. Datum of gage is 667.11 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,300 cfs and extended above on basis of contracted-opening and slope-area measurements at 5,960 cfs. Major changes in relation occurred previous to July 18, 1938; minor changes thereafter.

Remarks.--Flow regulated by powerplant and several small reservoirs above station. 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)
1921	Dec. 5, 1920	5.0	1,240	1922	June 25, 1922	4.58	950
	Dec. 14, 1920	5.40	1,560				
	May 1, 1921	4.05	645	1923	Jan. 2, 1923	a6.05	-
					Apr. 5, 1923	4.32	770
1922	Mar. 8, 1922	a6.12	-		Apr. 29, 1923	5.20	1,400
	June 21, 1922	4.9	1,160				

a Backwater from ice.

Peak stages and discharges of South Branch Ashuelot River at Webb, near Marlboro, N.H.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Nov. 25, 1923	4.86	1,130
	Dec. 1, 1923	4.61	957
	Jan. 11, 1924	4.49	884
	Apr. 7, 1924	4.98	1,220
	Apr. 19, 1924	4.24	740
1925	Feb. 12, 1925	5.53	1,680
1926	Jan. 19, 1926	a6.31	-
	Apr. 25, 1926	4.02	630
1927	Mar. 17, 1927	3.90	575
1928	Nov. 4, 1927	7.15	3,560
	Nov. 18, 1927	4.98	1,220
	Dec. 8, 1927	4.43	848
	Aug. 26, 1928	4.80	1,090
	Aug. 30, 1928	4.48	878
	Sept. 3, 1928	4.05	645
1929	Mar. 16, 1929	a7.08	932
	Mar. 23, 1929	4.77	1,010
	Apr. 21, 1929	4.39	775
	Apr. 26, 1929	4.21	685
	May 3, 1929	4.40	780
1930	Mar. 26, 1930	3.90	535
1931	Apr. 11, 1931	4.61	660
	May 23, 1931	4.34	554
1932	Apr. 1, 1932	5.53	1,150
	Apr. 12, 1932	4.55	638
1933	Apr. 7, 1933	4.99	821
	Apr. 15, 1933	4.91	766
	Apr. 18, 1933	5.10	879
1934	Apr. 12, 1934	5.68	1,300
1935	Jan. 10, 1935	4.60	619
1936	Mar. 12, 1936	a9.70	b1,700
	Mar. 18, 1936	7.55	3,880
	Apr. 6, 1936	4.36	670
1937	Apr. 6, 1937	4.25	628
1938	Nov. 29, 1937	5.22	762
	Jan. 25, 1938	a9.26	-
	May 15, 1938	5.38	866
	Sept.21, 1938	7.89	5,960
1939	Dec. 6, 1938	a5.21	580
1940	Apr. 9, 1940	5.23	688
	Apr. 12, 1940	6.30	1,910
	May 3, 1940	5.20	665
	June 1, 1940	5.19	658
1941	Feb. 9 or 10, 1941	-	370
1942	Mar. 9, 1942	6.21	1,780
1942	Mar. 22, 1942	5.07	576
	Aug. 14, 1942	5.37	800
1943	Dec. 2, 1942	4.91	476
1944	Nov. 9, 1943	5.26	710
	June 24, 1944	6.00	1,470
	Sept.15, 1944	5.27	718
1945	Apr. 26, 1945	5.28	725
1946	Mar. 9, 1946	a7.18	1,020
1947	Apr. 7, 1947	4.87	485
1948	Mar. 22, 1948	5.66	1,070
	Mar. 28, 1948	5.22	694
1949	Jan. 6, 1949	5.17	660
1950	Apr. 21, 1950	5.10	615
1951	Nov. 26, 1950	6.36	2,010
	Dec. 5, 1950	5.25	715
	Mar. 31, 1951	5.86	1,290
	Apr. 3, 1951	5.76	1,180
1952	Nov. 3, 1951	5.35	790
	Apr. 5, 1952	5.39	822
	June 2, 1952	5.22	694
1953	Jan. 25, 1953	5.42	848
	Feb. 21, 1953	5.03	573
	Mar. 13, 1953	5.45	875
	Mar. 16, 1953	5.39	822
	Mar. 25, 1953	5.16	654
	Mar. 30, 1953	5.03	573
1954	Apr. 18, 1954	5.37	806
	Sept.11, 1954	5.18	667
1955	Mar. 11, 1955	4.92	511
1956	Oct. 17, 1955	5.08	603
	Nov. 5, 1955	5.09	609
	Jan. 9, 1956	a6.88	-
	Jan. 10, 1956	-	b1,700
	Apr. 17, 1956	5.57	983
	Apr. 29, 1956	5.68	1,090
1957	Jan. 23, 1957	a5.61	475
1958	Dec. 21, 1957	5.32	766
	Apr. 7, 1958	5.05	585
	Apr. 16, 1958	5.23	701
1959	Apr. 3, 1959	6.40	2,070
1960	Oct. 24, 1959	7.40	4,350
	Nov. 25, 1959	5.05	585
	Nov. 28, 1959	5.26	722
	Mar. 31, 1960	5.76	1,180
	Apr. 5, 1960	6.51	2,290
	Sept.12, 1960	5.28	765

a Backwater from ice. b About.

1610. Ashuelot River at Hinsdale, N.H.

Location.--Lat 42°47'05", long 72°29'10", on left bank 40 ft upstream from highway bridge at Hinsdale, Cheshire County, a quarter of a mile downstream from dam, and 1¼ miles upstream from mouth.

Drainage area.--420 sq mi.

Gage.--Nonrecording prior to Sept. 29, 1933; recording thereafter. Datum of gage is 201.32 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended above. Changes in relation occur frequently.

Remarks.--High flow affected by Surry Mountain Reservoir (usable capacity, 1,420,000,000 cu ft) since 1942. Backwater present during high stages on Connecticut River. Base for partial-duration series, 3,000 cfs. Only annual peaks are shown prior to 1934 and subsequent to 1956.

Peak stages and discharges of Ashuelot River at Hinsdale, N.H.

Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Mar. 30, 1907	6.30	3,580
1908	Nov. 8, 1907	7.00	5,650
1909	Apr. 16, 1909	7.60	7,800
1910	Mar. 2, 1910	6.55	4,160
1911	Apr. 8, 1911	6.30	3,580
1915	Feb. 26, 1915	7.60	7,800
1916	Apr. 2, 1916	7.20	6,350
1917	Mar. 29, 1917	7.30	6,700
1918	Apr. 3, 1918	7.00	5,650
1919	May 23, 1919	7.20	6,350
1920	Mar. 29, 1920	8.06	9,550
1921	Mar. 12, 1921	7.40	7,060
1922	Apr. 13, 1922	7.20	6,350
1923	Apr. 7, 1923	7.90	8,940
1924	Apr. 9, 1924	7.50	7,420
1925	Feb. 14, 1925	6.90	5,300
1926	Apr. 26, 1926	6.90	5,300
1927	Mar. 17, 1927	7.00	5,650
1928	Nov. 5, 1927	13.4	13,400
1929	Mar. 24, 1929	6.95	5,480
1930	Mar. 26, 1930	6.50	4,020
1931	Apr. 12, 1931	7.00	5,650
1932	Apr. 2, 1932	7.00	5,650
1933	Apr. 19, 1933	7.70	8,180
1934	Apr. 4, 1934	7.30	5,540
	Apr. 14, 1934	8.08	8,380
1935	Dec. 3, 1934	6.35	3,040
	Jan. 11, 1935	7.46	6,050
	July 9, 1935	7.20	5,200
1936	Mar. 14, 1936	8.10	8,360
	Mar. 19, 1936	20.2	16,600
	Apr. 8, 1936	7.02	4,560
1937	Apr. 7-8, 1937	6.68	3,650
	May 16, 1937	7.80	7,260
1938	Nov. 30, 1937	6.92	4,260
	Jan. 26, 1938	7.56	6,400
	July 31, 1938	6.98	4,440
	Sept. 22, 1938	11.37	16,200
1939	Dec. 7, 1938	7.68	5,700
	Apr. 13, 1939	6.59	3,140
	Apr. 21, 1939	7.73	5,840
1940	Apr. 14, 1940	8.62	8,650
	Apr. 21, 1940	7.27	4,520
	May 5, 1940	7.66	5,560
	June 2, 1940	6.74	3,420
1941	Feb. 10, 1941	5.77	1,630
1942	Mar. 10, 1942	7.31	4,640
	Mar. 23, 1942	6.88	3,720
1943	Mar. 28, 1943	6.42	2,780
1944	Nov. 9, 1943	6.78	3,480
	Apr. 11, 1944	6.60	3,140
	Apr. 26, 1944	6.63	3,190
	June 26, 1944	6.95	3,830
1945	Mar. 22, 1945	7.27	4,570
	Apr. 6, 1945	7.00	3,940
	Apr. 27, 1945	6.98	3,900
	May 19-20, 1945	6.88	3,680
	June 21, 1945	7.00	3,940
1946	Mar. 10, 1946	7.12	4,390
	Mar. 16, 1946	6.55	3,180
1947	Mar. 16-17, 1947	6.59	3,250
	Mar. 26, 1947	6.50	3,080
	Apr. 8, 1947	6.57	3,210
1948	Mar. 23, 1948	8.07	6,200
	Mar. 28, 1948	7.34	4,510
	May 19, 1948	6.58	3,050
	May 26, 1948	6.86	3,550
1949	Jan. 7, 1949	6.53	2,960
1950	Mar. 30, 1950	a6.78	3,050
	Apr. 5, 1950	6.73	3,310
1951	Nov. 27, 1950	7.77	5,470
	Apr. 1, 1951	7.44	4,730
	Apr. 4, 1951	7.75	5,420
1952	Nov. 4, 1951	6.93	3,690
	Apr. 6, 1952	7.26	4,350
	June 2, 1952	6.71	3,270
1953	Mar. 16, 1953	7.20	4,220
	Mar. 26, 1953	6.64	3,170
	Mar. 31, 1953	6.66	3,200
1954	Apr. 19, 1954	6.83	3,470
1955	Apr. 27, 1955	6.56	3,020
1956	Nov. 5, 1955	6.60	3,080
	Apr. 17-18, 1956	7.72	5,350
	Apr. 30, 1956	7.96	5,900
1957	Jan. 24, 1957	5.88	2,010
1958	Apr. 7, 1958	6.71	3,270
1959	Apr. 3, 1959	7.71	5,320
1960	Apr. 5, 1960	8.90	8,800

a Backwater from ice.

1615. Tarbell Brook near Winchendon, Mass.
(Published as "Sip Pond Brook near Winchendon" prior to October 1950)

Location.--Lat 42°42'45", long 72°05'09", on left bank 0.1 mile downstream from Spud Brook, 0.3 mile downstream from Massachusetts-New Hampshire State line, and 2¾ miles northwest of Winchendon, Worcester County.

Drainage area.--18.2 sq mi.

Gage.--Nonrecording prior to June 30, 1916, and Dec. 13, 1916, to June 26, 1917; recording June 30 to Dec. 12, 1916, and since June 27, 1917. At site 450 ft downstream at same datum prior to June 27, 1917. Datum of gage is 872.82 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of critical-depth study at control section.

Remarks.--Flow regulated by Pearly and Sip Ponds and Damon Reservoirs. 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)
1917	Mar. 28, 1917	5.30	310	1936	Mar. 13, 1936	8.54	214
	Aug. 18, 1917	7.93	180		Mar.18,19, 1936	12.40	1,430
1918	Mar. 22, 1918	8.10	192		Apr. 7, 1936	8.00	160
	Apr. 3, 1918	8.36	221	1937	May 16, 1937	8.01	155
1919	Mar. 28, 1919	8.05	186	1938	Nov. 30, 1937	8.43	203
	May 23, 1919	9.34	339		Jan. 26, 1938	8.28	188
1920	Mar. 28, 1920	9.30	305		Sept.21, 1938	13.72	2,630
	Apr. 14, 1920	8.50	220	1939	Dec. 7, 1938	8.57	216
	Apr. 24, 1920	8.43	213		Apr. 12, 1939	8.38	200
	Apr. 29, 1920	8.90	261	1940	Apr. 13, 1940	10.51	605
1921	Dec. 6, 1920	8.88	259		Apr. 21, 1940	8.55	232
	Dec. 15, 1920	8.17	187		May 5, 1940	8.34	208
	May 2, 1921	8.05	175		June 1, 1940	8.13	187
1922	Mar. 30, 1922	8.50	220	1941	Apr. 10, 1941	7.17	95
	Apr. 12, 1922	8.61	231	1942	Mar. 10, 1942	8.92	278
	June 22, 1922	8.8	250		Mar. 19, 1942	8.23	198
	June 30, 1922	8.5	220		Mar. 23, 1942	8.65	244
1923	Apr. 6, 1923	8.97	269	1943	May 4, 1943	7.79	147
	Apr. 30, 1923	8.76	246	1944	Apr. 17, 1944	7.90	153
1924	Apr. 8, 1924	9.18	292		Apr. 26, 1944	8.10	175
	Apr. 20, 1924	8.00	170		June 26, 1944	8.85	269
	Apr. 23, 1924	7.85	155	1945	Mar. 22, 1945	8.82	265
1925	Mar. 31, 1925	8.20	190		Mar. 28, 1945	8.46	217
1926	Apr. 12, 1926	7.97	167		Apr. 27, 1945	8.35	204
	Apr. 25, 1926	8.23	193		May 16, 1945	8.35	204
1927	Mar. 21, 1927	8.20	190		May 19, 1945	8.62	238
1928	Nov. 4, 1927	9.62	396	1946	Mar. 10, 1946	8.51	223
	May 1, 1928	-	a160		Mar. 15, 1946	8.01	165
	Aug. 27, 1928	8.28	197	1947	Apr. 8, 1947	8.20	186
	Sept. 4, 1928	7.91	160	1948	Mar. 23, 1948	9.84	441
1929	Mar. 17, 1929	7.93	164		Mar. 28, 1948	8.82	265
	Mar. 23, 1929	8.17	182		Apr. 2, 1948	7.87	150
	Apr. 22, 1929	8.65	232		May 18, 1948	8.22	188
1930	Mar. 27, 1930	7.08	95	1949	Jan. 7, 1949	8.26	193
1931	Apr. 12, 1931	8.82	249	1950	Apr. 6, 1950	8.14	179
1932	Apr. 1, 1932	8.61	229		Apr. 21, 1950	7.90	153
	Apr. 13, 1932	8.10	179	1951	Nov. 27, 1950	9.35	346
1933	Apr. 8, 1933	8.93	251		Apr. 1, 1951	8.88	273
	Apr. 19, 1933	9.45	384		Apr. 4, 1951	8.99	290
1934	Apr. 4, 1934	8.55	211	1952	Nov. 4, 1951	8.49	216
	Apr. 13, 1934	9.41	372		Jan. 28, 1952	8.20	180
1935	Jan. 10, 1935	8.34	192		Apr. 6, 1952	9.06	297
				1953	Mar. 16, 1953	9.70	412

a About.

Peak stages and discharges of Tarbell Brook near Winchendon, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 27, 1953	8.28	190	1958	Apr. 7, 1958	8.56	204
	Mar. 31, 1953	8.25	186		Apr. 18, 1958	8.63	213
	Apr. 17, 1953	8.17	176		Apr. 30, 1958	8.19	163
1954	Apr. 18, 1954	8.79	256	1959	Jan. 22, 1959	8.10	154
					Apr. 4, 1959	9.72	388
1955	Apr. 27, 1955	8.14	173				
				1960	Nov. 29, 1959	8.53	201
1956	Oct. 18, 1955	8.40	204		Dec. 14, 1959	8.33	178
	Nov. 6, 1955	8.05	162		Apr. 5, 1960	10.69	647
	Jan. 11, 1956	9.48	341		Apr. 14, 1960	8.28	173
	Apr. 17, 1956	9.13	282		Sept.13, 1960	8.28	173
	Apr. 30, 1956	10.07	472				
1957	Apr. 6, 1957	7.53	103				

1620. Millers River near Winchendon, Mass.

Location.--Lat 42°41'03", long 72°05'02", on right bank 10 ft downstream from Nolan Bridge, a third of a mile downstream from Tarbell Brook, and 2 miles west of Winchendon, Worcester County.

Drainage area.--Area, 83.0 sq mi. Area of lakes, reservoirs, and ponds, 3.73 sq mi. Length of main stream, 14.2 miles. Average slope above gage, 19.6 ft per mile. Average tributary slope, 63.9 ft per mile. Average land slope, 322 ft per mile. Stream density, 1.72 miles per square mile. Mean altitude of basin, 1,110 ft.

Gage.--Recording. Datum of gage is 826.66 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of flow-over-dam measurement at 8,500 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by powerplant and by Lake Monomonac and other reservoirs. Base for partial-duration series, 690 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Apr. 3, 1918	6.56	715	1925	July 22, 1925	6.85	815
					July 27, 1925	6.86	818
1919	Mar. 29, 1919	6.60	740				
	May 23, 1919	8.3	1,370	1926	Dec. 6, 1925	6.58	734
					Apr. 26, 1926	7.37	902
1920	Mar. 31, 1920	7.88	1,200				
	Apr. 15, 1920	6.82	806	1927	Mar. 14, 1927	6.62	715
	Apr. 24, 1920	7.76	1,150		Mar. 22, 1927	6.46	698
	Apr. 29, 1920	7.78	1,160				
				1928	Nov. 4, 1927	8.30	1,370
1921	Oct. 1, 1920	6.73	779		Dec. 14, 1927	6.78	794
	Dec. 5, 1920	7.40	1,010		Dec. 17, 1927	6.45	695
	Dec. 15, 1920	6.90	830		Aug. 26, 1928	7.20	832
	Mar. 10, 1921	6.90	830				
	Apr. 18, 1921	6.78	794	1929	Mar. 17, 1929	-	a720
	Apr. 25, 1921	6.53	719		Apr. 22, 1929	7.55	1,080
	May 1, 1921	7.85	1,190				
				1930	Mar. 26, 1930	5.16	414
1922	Mar. 30, 1922	6.80	800				
	Apr. 12, 1922	7.22	942	1931	Apr. 14, 1931	7.15	906
	May 5, 1922	6.62	746		June 11, 1931	6.77	791
	June 25, 1922	8.65	1,510				
	June 30, 1922	7.00	865	1932	Apr. 1, 1932	7.72	1,190
					Apr. 13, 1932	7.17	924
1923	Mar. 20, 1923	6.53	719				
	Apr. 6, 1923	-	a1,200	1933	Apr. 8, 1933	8.00	1,250
	Apr. 30, 1923	8.20	1,330		Apr. 19, 1933	8.67	1,520
1924	Jan. 17, 1924	6.56	728	1934	Mar. 20, 1934	6.89	722
	Apr. 8, 1924	8.37	1,400		Mar. 28, 1934	7.55	977
	Apr. 19, 1924	7.25	952		Apr. 3, 1934	7.50	954
					Apr. 13, 1934	9.07	1,560
1925	Mar. 31, 1925	7.35	912				

a About.

Peak stages and discharges of Millers River near Winchendon, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 10, 1935	7.71	1,050
1936	Mar. 12, 1936	9.2	1,650
	Mar. 19, 1936	18.3	5,530
	Apr. 6, 1936	7.3	892
1937	June 22, 1937	6.99	800
1938	Nov. 30, 1937	7.21	820
	Jan. 25, 1938	b8.05	-
	July 31, 1938	7.59	955
	Aug. 2, 1938	7.38	885
	Sept.22, 1938	21.55	8,500
1939	Dec. 7, 1938	7.24	835
	Dec. 10, 1938	6.88	730
	Apr. 12, 1939	7.09	790
	Apr. 15, 1939	6.78	702
	Apr. 20, 1939	7.39	885
1940	Apr. 2, 1940	7.18	790
	Apr. 13, 1940	10.09	2,050
	Apr. 22, 1940	7.87	1,060
	May 5, 1940	7.44	880
	June 1, 1940	7.03	740
1941	Feb. 12, 1941	-	a500
1942	Mar. 9, 1942	8.50	1,320
	Mar. 17, 1942	7.05	740
	Mar. 23, 1942	7.35	842
1943	Dec. 4, 1942	6.82	665
	May 22, 1943	6.81	665
1944	June 25, 1944	10.17	2,080
1945	Mar. 21, 1945	7.52	947
	May 19, 1945	7.68	1,000
1946	Mar. 9, 1946	7.33	880
	May 28, 1946	6.90	750
1947	Apr. 8, 1947	6.60	660
1948	Mar. 23, 1948	9.41	1,720
1948	May 18, 1948	6.87	743
1949	Jan. 6, 1949	7.47	930
1950	Apr. 6, 1950	6.60	668
1951	Nov. 26, 1950	8.08	1,150
	Feb. 8, 1951	7.68	992
	Apr. 4, 1951	7.67	988
1952	Nov. 4, 1951	6.96	737
	Jan. 27, 1952	7.10	785
	Apr. 6, 1952	-	a1,000
1953	Jan. 25, 1953	6.83	731
	Mar. 16, 1953	7.98	1,110
	Mar. 31, 1953	8.81	1,450
	Apr. 17, 1953	7.02	786
1954	Apr. 19, 1954	7.56	961
	Sept.11, 1954	7.23	763
1955	Aug. 19, 1955	6.83	731
1956	Oct. 19, 1955	9.83	1,920
	Nov. 6, 1955	6.94	763
	Jan. 10, 1956	9.01	1,540
	Apr. 17, 1956	7.95	1,100
	May 1, 1956	8.55	1,340
1957	Jan. 23, 1957	7.04	792
1958	Apr. 7, 1958	-	770
	Apr. 20, 1958	7.72	988
	Apr. 30, 1958	6.86	698
1959	Jan. 22, 1959	7.66	966
	Apr. 3, 1959	8.55	1,340
1960	Nov. 29, 1959	6.99	737
	Apr. 5, 1960	-	c2,200
	Apr 7-8,1960	c13.5	-
	June 15, 1960	7.04	752
	Sept.12, 1960	7.58	938

a About.
b Backwater from ice.
c Occurred during period of backwater from Birch Hill Reservoir.

1625. Priest Brook near Winchendon, Mass.

Location.--Lat 42°40'57", long 72°06'56", on right bank 100 ft downstream from highway bridge, 3 miles upstream from mouth, and 3½ miles west of Winchendon, Worcester County.

Drainage area.--Area, 19.4 sq mi. Area of lakes, reservoirs, and ponds, 0.26 sq mi. Length of main stream, 11.8 miles. Average slope above gage, 27.2 ft per mile. Average tributary slope, 126 ft per mile. Average land slope, 314 ft per mile. Stream density, 1.73 miles per square mile. Mean altitude of basin, 1,109 ft.

Gage.--Nonrecording prior to Sept. 12, 1936; recording thereafter. Datum of gage is 849.67 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs and extended above on basis of contracted-opening measurements at 1,840 and 3,000 cfs. Minor changes in relation occur.

Remarks.--Flow regulated by ponds and mill above station. Base for partial-duration series, 150 cfs. Only annual peaks are shown prior to 1937.

Peak stages and discharges of Priest Brook near Winchendon, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Mar. 28, 1917	5.0	319
1919	Mar. 28, 1919	5.8	608
1920	Mar. 28, 1920	6.1	732
1921	Oct. 4, 1920	5.4	457
1922	June 21, 1922	5.9	648
1923	Apr. 29, 1923	5.6	530
1924	Apr. 7, 1924	5.7	569
1925	Mar. 31, 1925	-	a148
1926	Apr. 12, 1926	4.7	230
1927	Mar. 17, 1927	5.15	368
1928	Nov. 4, 1927	6.8	1,000
1929	Mar. 23, 1929	5.0	319
1930	Mar. 27, 1930	4.13	136
1931	Apr. 11, 1931	4.85	273
1932	Apr. 1, 1932	5.4	457
1933	Apr. 18, 1933	5.5	493
1934	Apr. 12, 1934	5.15	368
1935	Jan. 10, 1935	5.1	352
1936	Mar. 18, 1936	8.4	1,840
1937	Dec. 22, 1936	4.02	162
	Apr. 7, 1937	4.13	181
	Apr. 16, 1937	4.29	210
	May 15, 1937	4.23	199
1938	Nov. 29, 1937	4.65	280
	Dec. 26, 1937	b5.62	a250
	June 14, 1938	4.12	180
	July 24, 1938	4.16	187
	Sept.21, 1938	9.90	3,000
1939	Dec. 6, 1938	5.06	370
	Apr. 3, 1939	4.05	162
	Apr. 8, 1939	4.09	168
	Apr. 12, 1939	4.68	284
	Apr. 20, 1939	4.56	258
1940	Apr. 2, 1940	b5.18	a350
	Apr. 13, 1940	6.65	685
	Apr. 21, 1940	4.68	290
	May 5, 1940	4.46	242
	June 1, 1940	4.30	212
1941	Dec. 31, 1940	3.64	104
1942	Mar. 10, 1942	5.70	550
	Mar. 19, 1942	4.45	240
	Mar. 22, 1942	4.63	280
	June 15, 1942	4.00	159
1943	Mar. 28, 1943	4.07	169
	May 23, 1943	4.04	163
1944	Nov. 10, 1943	4.06	167
	Mar. 29, 1944	4.16	185
	Apr. 12, 1944	4.11	176
	Apr. 17, 1944	4.03	161
	Apr. 26, 1944	4.02	160
	June 25, 1944	5.64	532
1945	Mar. 22, 1945	4.65	280
	Mar. 28, 1945	4.02	160
	Apr. 6, 1945	4.00	156
1945	Apr. 27, 1945	4.41	232
	May 16, 1945	4.36	222
	May 19, 1945	4.41	232
1946	Mar. 10, 1946	5.22	413
	Mar. 16, 1946	4.15	183
	May 19, 1946	4.02	160
1947	Mar. 15, 1947	4.13	179
	Apr. 8, 1947	4.18	188
1948	Mar. 23, 1948	5.75	565
	Mar. 28, 1948	4.70	290
	May 18, 1948	4.41	232
	June 8, 1948	3.96	150
	July 8, 1948	4.02	160
1949	Jan. 7, 1949	4.46	242
1950	Mar. 30, 1950	4.25	224
	Apr. 6, 1950	4.20	212
	Apr. 22, 1950	4.03	176
1951	Nov. 27, 1950	5.86	605
	Dec. 5, 1950	4.44	248
	Feb. 9, 1951	b4.05	a150
	Feb. 19, 1951	4.08	178
	Feb. 23, 1951	3.95	155
	Mar. 22, 1951	4.00	164
	Apr. 1, 1951	5.18	413
	Apr. 3, 1951	5.09	392
1952	Nov. 4, 1951	4.66	293
	Jan. 28, 1952	4.43	246
	Apr. 6, 1952	5.08	389
	June 2-3,1952	3.94	153
1953	Jan. 25, 1953	-	215
	Feb. 22, 1953	4.21	195
	Mar. 16, 1953	5.46	479
	Mar. 27, 1953	4.41	232
	Mar. 31, 1953	4.62	274
	Apr. 17, 1953	4.40	230
	May 3, 1953	3.97	154
1954	Dec. 11, 1953	4.01	161
	Apr. 18, 1954	4.86	325
	Sept.12, 1954	4.19	191
1955	Apr. 27, 1955	4.68	286
	Aug. 20, 1955	4.28	207
1956	Oct. 18, 1955	4.92	339
	Nov. 5, 1955	-	a200
	Jan. 10, 1956	5.28	429
	Apr. 18, 1956	5.26	424
	Apr. 30, 1956	5.77	568
1957	Jan. 24, 1957	4.19	207
	Apr. 6, 1957	3.95	166
1958	Dec. 22, 1957	4.29	209
	Apr. 7, 1958	4.63	276
	Apr. 18, 1958	4.53	256
	Apr.23,24,1958	4.01	161
	Apr. 30, 1958	4.30	211
1959	Jan. 23, 1959	5.04	368
	Mar. 22, 1959	4.36	222
	Apr. 3, 1959	b6.02	-
	Apr. 3, 1959	5.99	646
	Apr. 11, 1959	4.06	153
1960	Oct. 25, 1959	5.47	479
	Nov. 29, 1959	4.57	264
	Dec. 14, 1959	4.40	230
	Jan. 4, 1960	-	170
	Apr. 2, 1960	5.13	390
	Apr. 6, 1960	6.26	744
	June 16, 1960	4.00	157
	Sept.13, 1960	4.74	294

a About.
b Backwater from ice.

1640. Millers River at South Royalston, Mass.

Location.--Lat 42°37'47", long 72°09'03", on right bank 500 ft downstream from bridge in South Royalston, Worcester County, 0.4 mile downstream from Beaver Brook, and 1.7 miles downstream from Birch Hill Dam.

Drainage area.--187 sq mi.

Gage.--Recording. Datum of gage is 792.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements. Changes in relation occur.

Historical data.--Maximum stage known, 15.9 ft, from floodmarks, Sept. 21 or 22, 1938.

Remarks.--Flow regulated by Lake Monomonac and other reservoirs, by mills and powerplants, and at high flow by Birch Hill Reservoir (usable capacity, 2,180,000,000, cu ft) since 1941. 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	Sept.21 or 22, 1938	a15.9	-	1950	Apr. 8, 1950	6.60	1,310
				1951	Feb. 9, 1951	7.08	1,840
1940	Apr. 13, 1940	8.40	4,400	1952	Apr. 6, 1952	d6.94	1,450
				1953	Apr. 3, 1953	7.00	1,790
1941	Dec. 31, 1940	b7.39	842	1954	Apr. 20, 1954	6.60	1,370
1942	Mar. 10, 1942	7.44	2,630	1955	Apr.28-29,1955	6.24	1,060
1943	May 23, 1943	c7.70	1,240				
1944	June 25,26,1944	7.57	2,830	1956	May 4, 1956	7.22	2,050
1945	Mar. 22, 1945	6.98	1,940	1957	Jan. 25, 1957	e8.29	1,410
				1958	Apr. 11, 1958	f7.41	1,770
1946	Mar. 10, 1946	7.11	2,120	1959	Apr. 6, 1959	g9.42	2,140
1947	Apr. 8, 1947	6.46	1,320	1960	Apr. 7, 1960	7.41	2,280
1948	Mar. 22, 1948	7.39	2,540				
1949	Jan. 8, 1949	6.74	1,640				

a Maximum stage known.
b Occurred Feb. 11, 1941; backwater from ice.
c Occurred Jan. 9, 1943; backwater from ice.
d Occurred Dec. 21, 1951; backwater from ice.
e Occurred Jan. 24, 1957; backwater from ice.
f Occurred Feb. 20, 1958; backwater from ice.
g Occurred Jan. 24, 1959; backwater from ice.

1650. East Branch Tully River near Athol, Mass.

Location.--Lat 42°38'32", long 72°13'34", on right bank 300 ft downstream from Tully Dam, 1.3 miles downstream from Lawrence Brook, and 3½ miles north of Athol, Worcester County.

Drainage area.--Area, 50.4 sq mi. Area of lakes, reservoirs, and ponds, 0.91 sq mi. Length of main stream, 12.8 miles. Average slope above gage, 51.9 ft per mile. Average tributary slope, 120 ft per mile. Average land slope, 409 ft per mile. Stream density, 2.00 miles per square mile. Mean altitude of basin, 1,060 ft.

Gage.--Nonrecording at site 0.2 mile upstream at datum 14.40 ft higher prior to Oct. 26, 1948; recording thereafter. Datum of gage is 613.71 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above on basis of flow-over-dam and contracted-opening measurements at 5,140 cfs. Large changes in relation have occurred.

Remarks.--Flow regulated by Tully Reservoir since 1948. 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. 28, 1917	3.8	785	1939	Dec. 7, 1938	3.85	740
1918	Apr. 3, 1918	3.4	585	1940	Apr. 13, 1940	4.98	1,650
1919	Mar. 28, 1919	3.6	649				
1920	Mar. 29, 1920	4.25	1,110	1941	Dec. 31, 1940	2.63	260
				1942	Mar. 10, 1942	3.90	860
1921	Mar. 10, 1921	3.95	874	1943	May 23, 1943	2.96	385
1922	June 22, 1922	4.25	1,110	1944	June 25, 1944	4.25	1,080
1923	Apr. 6, 1923	4.0	909	1945	Mar. 22, 1945	3.35	550
1924	Apr. 8, 1924	3.9	838				
1925	Feb. 13, 1925	3.45	582	1946	Mar. 10, 1946	3.52	650
				1947	Apr. 7,8,1947	3.10	450
1926	Apr. 10, 1926	3.22	488	1948	Mar. 23, 1948	5.65	933
1927	Mar. 17, 1927	3.65	678	1949	Jan. 7, 1949	4.62	431
1928	Nov. 4, 1927	5.2	2,090	1950	Mar. 31, 1950	4.80	582
1929	Mar. 18, 1929	3.8	771				
1930	Mar. 26, 1930	2.95	366	1951	Apr. 12, 1951	5.18	826
				1952	Apr. 7-8,1952	4.60	475
1931	Apr. 5, 1931	3.3	494	1953	Apr. 8, 1953	4.78	547
1932	Apr. 2, 1932	4.0	909	1954	Apr. 20, 1954	4.56	457
1933	Apr. 19, 1933	4.0	909	1955	Apr. 29, 1955	4.46	432
1934	Apr. 13, 1934	4.05	946				
1935	Jan. 10, 1935	3.8	771	1956	May 8, 1956	4.74	560
				1957	Mar. 19, 1957	4.14	276
1936	Mar.18,19, 1936	6.50	3,700	1958	Apr. 26, 1958	4.68	472
1937	Dec. 22, 1936	3.15	429	1959	Apr. 11, 1959	4.73	492
1938	Sept.21, 1938	8.60	5,140	1960	Apr. 21, 1960	5.38	828

1655. Moss Brook at Wendell Depot, Mass.

Location.--Lat 42°36'10", long 72°21'36", on left bank a quarter of a mile upstream from mouth and a quarter of a mile north of Wendell Depot, Franklin County.

Drainage area.--Area, 12.3 sq mi. Area of lakes, reservoirs, and ponds, 0.13 sq mi. Length of main stream, 7.2 miles. Average slope above gage, 48.1 ft per mile. Average tributary slope, 173 ft per mile. Average land slope, 614 ft per mile. Stream density, 1.96 miles per square mile. Mean altitude of basin, 873 ft.

Gage.--Nonrecording. Datum of gage is 508.9 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended above on basis of slope-area measurements at 1,070 cfs and 1,540 cfs. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 160 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges of Moss Brook at Wendell Depot, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Mar. 28, 1917	3.60	255	1951	Nov. 26, 1950	3.28	189
1918	Mar. 24, 1918	2.90	113		Mar. 31, 1951	4.00	364
1919	Mar. 28, 1919	4.00	365		Apr. 3, 1951	3.79	306
1920	Apr. 14, 1920	3.65	268	1952	Nov. 4, 1951	3.73	291
1921	May 1, 1921	3.35	195		Nov. 8, 1951	3.25	184
1922	June 22, 1922	3.95	350		Apr. 6, 1952	3.90	336
1923	Apr. 29, 1923	3.90	335				
1924	Apr. 7, 1924	4.00	365	1953	Jan. 25, 1953	3.62	263
1925	Feb. 13, 1925	a3.60	b170		Mar. 14, 1953	3.25	184
					Mar. 16, 1953	4.02	370
1926	Apr. 10, 1926	2.90	113		Mar. 25, 1953	3.20	174
1927	Mar. 18, 1927	3.55	242		Mar. 30, 1953	3.58	253
1928	Nov. 4, 1927	5.30	885		Apr. 17, 1953	3.40	213
1929	Mar. 15, 1929	-	b255				
1930	Mar. 26, 1930	3.30	185	1954	Apr. 18, 1954	3.58	253
1931	May 24, 1931	3.35	195	1955	Apr. 27, 1955	3.58	253
1932	Apr. 1, 1932	4.10	395		June 21, 1955	5.00	735
1933	Apr. 19, 1933	3.70	280		Aug. 13, 1955	3.78	304
1934	Apr. 12, 1934	4.60	560		Aug. 19, 1955	4.80	645
1935	Jan. 10, 1935	3.30	185				
				1956	Oct. 31, 1955	3.70	283
1936	Mar. 19, 1936	6.30	1,540		Nov. 5, 1955	3.45	224
1937	May 15, 1937	3.40	205		Apr. 17, 1956	3.74	293
1938	Sept.21, 1938	5.62	1,070		Apr. 29, 1956	3.23	180
1939	Dec. 6, 1938	3.80	309				
1940	Apr. 13, 1940	4.00	364	1957	Jan. 25, 1957	a3.19	-
1941	Dec. 30, 1940	2.68	94	1958	Dec. 21, 1957	3.20	174
1942	Mar. 9, 1942	4.37	495		Dec. 27, 1957	3.15	164
1943	Mar. 27, 1943	2.94	130		Apr. 7, 1958	3.63	266
1944	Apr. 25, 1944	3.15	164				
1945	Apr. 26, 1945	3.84	320	1959	Jan. 22, 1959	-	240
					Apr. 3, 1959	4.54	544
1946	Mar. 9, 1946	3.50	235				
1947	Apr. 7, 1947	2.90	123	1960	Oct. 24, 1959	4.55	548
					Nov. 25, 1959	3.22	178
1948	Mar. 23, 1948	3.61	260		Nov. 29, 1959	3.14	163
	Mar. 28, 1948	3.45	224		Jan. 2, 1960	3.22	197
	May 19, 1948	3.20	174		Mar. 31, 1960	4.02	370
					Apr. 5, 1960	4.62	573
1949	Jan. 6, 1949	3.10	155		Sept.13, 1960	3.56	249
1950	Apr. 21, 1950	3.46	226				

a Backwater from ice.
b About.

1665. Millers River at Erving, Mass.

Location.--Lat 42°35'51", long 72°26'19", on right bank 75 ft downstream from bridge at Farley, 0.6 mile upstream from Mormon Hollow Brook, 2.4 miles downstream from Erving, Franklin County, and 5.5 miles upstream from mouth.

Drainage area.--Area, 375 sq mi. Area of lakes, reservoirs, and ponds, 8.74 sq mi. Length of main stream, 42.8 miles. Average slope above gage, 17.7 ft per mile. Average tributary slope, 65.4 ft per mile. Average land slope, 387 ft per mile. Stream density, 1.97 miles per square mile.

Gage.--Nonrecording prior to June 30, 1915, and Sept. 21, 1938, to Mar. 29, 1939; recording June 30, 1915, to Sept. 20, 1938, and subsequent to Mar. 29, 1939. At site 2.2 miles upstream at different datum prior to Jan. 1, 1939. At site 0.4 mile upstream at different datum Jan. 1 to Mar. 29, 1939. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter and slope-area measurements. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants, Lake Monomonac and other reservoirs, and at high flow by Birch Hill (since 1941) and Tully Reservoirs (since 1948). Only annual peaks are shown.

Peak stages and discharges of Millers River at Erving, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Feb. 25, 1915	5.65	5,280	1938	Sept.22, 1938	13.37	29,000
				1939	Dec. 7, 1938	-	b4,600
1916	Apr. 2, 1916	4.95	3,830	1940	Apr. 13, 1940	5.10	7,000
1917	Mar. 28, 1917	5.32	4,820				
1918	Apr. 3, 1918	4.63	3,090	1941	Apr. 8, 1941	1.71	1,850
1919	May 23, 1919	4.93	3,780	1942	Mar. 9, 1942	7.44	4,750
1920	Mar. 28, 1920	5.74	6,020	1943	May 23, 1943	5.64	2,580
				1944	June 25, 1944	7.51	4,890
1921	May 2, 1921	5.54	5,300	1945	May 19, 1945	6.34	3,410
1922	June 22, 1922	5.36	4,850				
1923	Apr. 7, 1923	5.44	5,050	1946	Mar. 9, 1946	6.88	4,070
1924	Apr. 8, 1924	5.53	5,270	1947	Apr. 7, 1947	5.51	2,550
1925	Feb. 12, 1925	4.98	3,900	1948	Mar. 22, 1948	7.49	5,690
				1949	Jan. 7, 1949	5.52	2,570
1926	Apr. 10, 1926	4.63	3,090	1950	Mar. 30, 1950	5.55	2,600
1927	Mar. 16, 1927	4.95	3,950				
1928	Nov. 4, 1927	5.85	5,740	1951	Apr. 3, 1951	6.53	4,010
1929	Apr. 22, 1929	5.00	3,950	1952	Apr. 6, 1952	6.45	3,870
1930	Mar. 27, 1930	3.90	1,840	1953	Mar. 16, 1953	6.60	4,110
				1954	Apr. 18, 1954	5.60	2,590
1931	Mar. 30, 1931	4.70	3,020	1955	Aug. 19, 1955	6.00	3,170
1932	Apr. 2, 1932	5.56	4,800				
1933	Apr. 19, 1933	5.94	6,000	1956	Apr. 17, 1956	6.86	4,550
1934	Apr. 13, 1934	5.60	4,920	1957	Apr. 6, 1957	c5.77	1,990
1935	Jan. 10, 1935	a5.62	b4,400	1958	Apr. 7, 1958	5.91	3,280
				1959	Apr. 3, 1959	6.85	4,900
1936	Mar. 19, 1936	10.86	19,700	1960	Apr. 5, 1960	6.91	5,020
1937	Dec. 21, 1936	4.92	3,390				

a Backwater from ice.
b About.
c Occurred Jan. 23, 1957; backwater from ice.

1670. Connecticut River at Turners Falls, Mass.

Location.--Lat 42°36'40", long 72°33'20", at dam of Western Massachusetts Electric Co., at Turners Falls, Franklin County, 0.2 mile upstream from Falls River.

Drainage area.--7,163 sq mi.

Remarks.--Discharge computed by adding flow over and through dam, flow for factories through canal that diverts around dam, and flow through power stations 1 and 2 of Western Massachusetts Electric Co. Flow regulated by reservoirs upstream (combined usable capacity, about 24½ billion cubic feet). Records furnished by Western Massachusetts Electric Co. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Feb. 26, 1915	-	65,600	1938	Sept.22, 1938	-	168,000
				1939	Apr. 23, 1939	-	87,100
1916	Apr. 2, 1916	-	64,300	1940	May 5, 1940	-	101,000
1917	Mar. 29, 1917	-	54,800				
1918	Apr. 3, 1918	-	61,800	1941	Apr.15,16, 1941	-	42,800
1919	Mar. 29, 1919	-	70,500	1942	Apr. 8, 1942	-	66,700
1920	Mar. 28, 1920	-	75,700	1943	Apr. 29, 1943	-	67,800
				1944	Apr. 11, 1944	-	61,300
1921	Mar. 10, 1921	-	76,000	1945	Mar. 22, 1945	-	73,100
1922	Apr. 12, 1922	-	114,000				
1923	Apr. 6, 1923	-	73,100	1946	Mar. 16, 1946	-	61,600
1924	Apr. 20, 1924	-	63,100	1947	Apr. 13, 1947	-	83,800
1925	Mar. 30, 1925	-	86,600	1948	Mar. 23, 1948	-	108,000
				1949	Dec. 31, 1948	-	83,800
1926	Apr. 26, 1926	-	73,600	1950	Apr. 6, 1950	-	75,800
1927	Mar. 19, 1927	-	60,600				
1928	Nov. 5, 1927	-	152,000	1951	Apr. 1, 1951	-	90,900
1929	Mar. 23, 1929	-	64,200	1952	June 2, 1952	-	99,100
1930	Apr. 9, 1930	-	44,000	1953	Mar. 28, 1953	-	111,000
				1954	Apr. 19, 1954	-	72,500
1931	Apr. 11, 1931	-	53,900	1955	Apr. 16, 1955	-	79,600
1932	Apr. 13, 1932	-	75,200				
1933	Apr. 19, 1933	-	105,000	1956	May 1, 1956	-	79,200
1934	Apr. 13, 1934	-	89,000	1957	Jan. 24, 1957	-	30,900
1935	Jan. 11, 1935	-	67,500	1958	Apr. 23, 1958	-	90,500
				1959	Apr. 4, 1959	-	82,500
1936	Mar. 19, 1936	-	206,000	1960	Apr. 6, 1960	-	124,000
1937	May 16, 1937	-	75,900				

1685. Deerfield River at Charlemont, Mass.

Location.--Lat 42°37'33", long 72°51'20", on left bank 1 mile downstream from Charlemont, Franklin County, and 2.5 miles downstream from Chickley River.

Drainage area.--362 sq mi.

Gage.--Recording. Datum of gage is 517.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs and extended above on basis of slope-area measurement at 42,600 cfs and contracted-opening measurement at 56,300 cfs. Changes in relation occur.

Remarks.--Flow regulated by Somerset Reservoir (usable capacity, 2,500,000,000 cu ft), by Harriman Reservoir (usable capacity, 5,060,000,000 cu ft) since 1924, and by several powerplants 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)
1914	Apr. 20, 1914	10.00	18,200	1937	May 15, 1937	9.61	15,800
1915	July 8, 1915	15.7	38,200	1938	Sept.21, 1938	20.17	56,300
				1939	Apr. 19, 1939	8.81	11,400
1916	Dec. 26, 1915	8.1	11,500	1940	May 3, 1940	9.83	14,000
1917	Apr. 21, 1917	7.53	9,760				
1918	Apr. 3, 1918	a11.75	8,250	1941	Feb. 8, 1941	5.58	4,500
1919	Mar. 28, 1919	12.27	27,500	1942	Apr. 8, 1942	6.38	5,950
1920	Apr. 13, 1920	10.04	18,400	1943	May 13, 1943	9.80	14,000
				1944	June 24, 1944	9.69	13,700
1921	Mar. 9, 1921	13.35	32,400	1945	Apr. 26, 1945	10.15	15,000
1922	Apr. 12, 1922	10.70	21,000				
1923	Apr. 29, 1923	b20.0	14,900	1946	May 28, 1946	6.99	7,120
1924	Oct. 24, 1923	9.60	16,600	1947	Apr. 12, 1947	9.05	12,000
1925	Feb. 12, 1925	c15.97	9,330	1948	Mar. 22, 1948	9.12	12,200
				1949	Dec. 31, 1948	17.75	42,600
1926	Apr. 25, 1926	6.87	7,980	1950	Apr. 5, 1950	7.52	8,280
1927	Mar. 19, 1927	5.89	5,470				
1928	Nov. 3, 1927	13.38	36,000	1951	Nov. 26, 1950	10.52	16,100
1929	Apr. 29, 1929	8.27	12,100	1952	June 1, 1952	13.88	27,000
1930	Mar. 26, 1930	d8.22	4,400	1953	Mar. 24, 1953	8.77	11,300
				1954	May 10, 1954	6.55	6,240
1931	June 10, 1931	10.12	18,900	1955	Aug. 19, 1955	7.65	8,570
1932	Apr. 12, 1932	6.12	6,070				
1933	Nov. 19, 1932	8.72	13,000	1956	Oct. 15, 1955	11.19	18,100
1934	Apr. 12, 1934	e8.80	11,600	1957	Jan. 23, 1957	6.12	5,430
1935	Jan. 9, 1935	8.10	11,300	1958	Dec. 21, 1957	7.31	7,820
				1959	Jan. 22, 1959	5.96	5,140
1936	Mar. 18, 1936	f19.9	32,200	1960	Sept.12, 1960	9.36	12,800

a Occurred Mar. 21, 1918; backwater from ice. b Occurred Mar. 23, 1923; backwater from ice. c Backwater from ice. d Occurred Feb. 17, 1930; backwater from ice. e Occurred Feb. 5, 1934; backwater from ice. f Occurred Mar. 12, 1936; backwater from ice.

1690. North River at Shattuckville, Mass.

Location.--Lat 42°38'18", long 72°43'32", on right bank in Shattuckville, Franklin County, 1¼ miles south of Griswoldville and 1.3 miles upstream from mouth.

Drainage area.--Area, 88.4 sq mi. Area of lakes, reservoirs, and ponds, 0.15 sq mi. Length of main stream, 21.0 miles. Average slope above gage, 65.6 ft per mile. Average tributary slope, 245 ft per mile. Average land slope, 642 ft per mile. Stream density, 1.64 miles per square mile. Mean altitude of basin, 1,438 ft.

Gage.--Recording. Datum of gage is 458.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs and by flow-over-dam measurement at 10,000 cfs; extended by logarithmic plotting. Minor changes in relation occur.

Remarks.--Base for partial-duration series, 1,880 cfs.

Peak stages and discharges of North River at Shattuckville, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 9, 1940	6.00	2,290	1952	Nov. 3, 1951	6.59	3,260
	Apr. 12, 1940	6.43	2,650		Nov. 7, 1951	6.04	2,450
	Apr. 18, 1940	5.89	2,200		Apr. 5, 1952	7.30	4,410
	May 3, 1940	5.56	1,920		Apr. 14, 1952	5.63	1,920
	May 31, 1940	6.33	2,560		May 12, 1952	6.01	2,400
1941	Feb. 8, 1941	a7.57	b2,500		June 1, 1952	8.09	5,980
1942	Mar. 9, 1942	6.29	2,600	1953	Dec. 12, 1952	6.96	3,850
	Mar. 22, 1942	6.38	2,700		Jan. 25, 1953	-	1,900
1943	Nov. 1, 1942	6.32	2,600		Mar. 13, 1953	6.63	3,320
	Nov. 25, 1942	6.66	3,030		Mar. 16, 1953	7.02	3,940
	Apr. 28, 1943	7.00	3,360		Mar. 24, 1953	8.32	6,500
	May 26, 1943	6.42	2,700		Mar. 26, 1953	7.75	5,260
1944	Nov. 9, 1943	7.66	4,150		Mar. 27, 1953	6.96	3,850
	Apr. 24, 1944	6.44	2,740	1954	Dec. 7, 1953	5.60	1,890
	June 24, 1944	5.77	2,080		Mar. 2, 1954	6.07	2,490
1945	Mar. 18, 1945	5.85	2,150		Mar. 3, 1954	6.06	2,470
	Mar. 21, 1945	5.97	2,270		Apr. 18, 1954	6.45	3,040
	Apr. 5, 1945	6.21	2,510		Sept.11, 1954	6.54	3,180
	Apr. 26, 1945	7.85	4,570	1955	Nov. 3, 1954	7.44	4,660
	May 4, 1945	5.71	2,020		Dec. 15, 1954	5.77	2,080
	May 13, 1945	5.91	2,210		Apr. 10, 1955	5.64	1,930
	June 20, 1945	6.71	3,040		Apr. 25, 1955	5.66	1,960
1946	Mar. 9, 1946	5.83	2,130		Aug. 13, 1955	6.18	2,640
1947	Apr. 6, 1947	6.10	2,310		Aug. 19, 1955	7.02	3,940
	Apr. 12, 1947	6.84	3,160	1956	Oct. 15, 1955	10.37	13,200
	May 6, 1947	5.91	2,120		Oct. 17, 1955	7.78	5,850
1948	Mar. 20, 1948	6.21	2,430		Oct. 31, 1955	6.62	3,700
	Mar. 22, 1948	7.82	4,520		Nov. 5, 1955	5.99	2,730
	Mar. 27, 1948	5.92	2,130		Apr. 16, 1956	5.86	2,540
	Apr. 1, 1948	7.47	4,000		Apr. 29, 1956	6.52	3,540
	May 17, 1948	6.80	3,110	1957	Jan. 23, 1957	6.00	2,380
1949	Dec. 31, 1948	9.62	10,000		Jan. 23, 1957	a6.42	-
	Jan. 6, 1949	6.36	2,900	1958	Dec. 21, 1957	6.68	3,400
1950	Apr. 4, 1950	6.08	2,520		Dec. 26, 1957	5.73	2,010
	Apr. 20, 1950	5.95	2,360		Apr. 18, 1958	6.10	2,520
1951	Nov. 26, 1950	7.38	4,540		Apr. 29, 1958	5.66	1,920
	Dec. 4, 1950	5.74	2,110	1959	Apr. 3, 1959	6.39	2,960
	Dec. 8, 1950	5.67	2,040	1960	Oct. 24, 1959	7.20	4,240
	Mar. 31, 1951	8.32	6,500		Nov. 28, 1959	5.96	2,320
	Apr. 3, 1951	6.25	2,750		Dec. 7, 1959	5.80	2,100
1952	Oct. 8, 1951	6.50	3,120		Mar. 31, 1960	5.68	1,950
					Apr. 5, 1960	7.74	5,240
					Apr. 15, 1960	5.79	2,090
					Sept.12, 1960	8.81	7,700
					Sept.20, 1960	8.83	7,750

a Backwater from ice.
b About.

1695. Deerfield River at Shelburne Falls, Mass.

Location.--Lat 42°35'58", long 72°44'02", at power station No. 3 of New England Power Co. about half a mile downstream from Shelburne Falls, Franklin County. At plant of Greenfield Electric Light and Power Co. about three-quarters of a mile downstream prior to Jan. 1, 1914.

Drainage area.--500 sq mi (501 sq mi prior to January 1914).

Remarks.--Discharge computed from records of gate openings, power readings, height of water on dam, in forebay, in tailrace, and at wasteways. Flow regulated by powerplants and by Somerset Reservoir (capacity, 2,500,000,000 cu ft) since 1913. Records furnished by H. K. Borrows, Boston, Mass., and by New England Power Co. Only annual maximum daily discharges are shown.

Maximum daily mean discharges of Deerfield River at Shelburne Falls, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Nov. 7, 1907	-	16,300	1912	Apr. 7, 1912	-	11,100
1909	Apr. 15, 1909	-	21,300	1913	Mar. 27, 1913	-	19,200
1910	Jan. 22, 1910	-	16,900	1914	Mar. 28, 1914	-	15,100
				1915	July 9, 1915	-	20,200
1911	Apr. 7, 1911	-	8,700				

1700. Deerfield River near West Deerfield, Mass.

Location.--Lat 42°32'09", long 72°39'14", on right bank 0.4 mile downstream from South River, 1¼ miles west of West Deerfield, Franklin County, and 2½ miles west of Deerfield.

Drainage area.--558 sq mi.

Gage.--Recording. Altitude of gage is 155 ft (from topographic map).

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

Remarks.--Flow regulated by Somerset and Harriman Reservoirs (combined usable capacity, 7,560,000,000 cu ft), and by several powerplants above station. Practically no discharge from Harriman Reservoir during most 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)
1941	Feb. 8, 1941	a8.31	b10,000	1951	Nov. 26, 1950	10.50	24,400
1942	Mar. 9, 1942	7.02	10,700	1952	June 1, 1952	12.81	34,800
1943	May 13, 1943	8.34	15,700	1953	Mar. 24, 1953	9.99	22,200
1944	Nov. 9, 1943	9.29	20,100	1954	Sept.11, 1954	7.80	13,400
1945	Apr. 26, 1945	9.56	21,300	1955	Aug. 19, 1955	9.11	18,600
1946	May 28, 1946	7.01	10,800	1956	Oct. 15, 1955	14.56	43,700
1947	Apr. 12, 1947	8.71	17,500	1957	Jan. 23, 1957	a7.49	9,570
1948	Mar. 22, 1948	9.72	21,100	1958	Dec. 21, 1957	7.90	13,800
1949	Dec. 31, 1948	15.43	48,500	1959	Apr. 3, 1959	c11.46	11,100
1950	Apr. 5, 1950	7.55	12,500	1960	Sept.12, 1960	10.58	24,700

a Backwater from ice.
b Estimated.
c Occurred Jan. 22, 1959; backwater from ice.

1705. Connecticut River at Montague City, Mass.
(Published as "at Sunderland" prior to October 1929)

Location.--Lat 42°34'48", long 72°34'30", on left bank 75 ft downstream from New York, New Haven and Hartford Railroad bridge at Montague City, Franklin County, and 1,000 ft downstream from Deerfield River.

Drainage area.--Area, 7,865 sq mi. Area of lakes, reservoirs, and ponds, 62.6 sq mi. Length of main stream, 279 miles. Average slope above gage, 3.80 ft per mile.

Gage.--Nonrecording prior to Oct. 9, 1921; recording thereafter. At site 9 miles downstream at datum 1.00 ft lower prior to Oct. 1, 1929. Datum of gage is 99.87 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 160,000 cfs and extended above. Minor changes in relation occur.

Remarks.--Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis since 1940, Comerford Station Pond since 1930, and other reservoirs (combined usable capacity, about 32½ billion cubic feet). Base for partial-duration series, 61,000 cfs. Only annual peaks are shown prior to 1922.

Peak stages and discharges of Connecticut River at Montague City, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Apr. 30, 1904	21.8	74,000
1905	Apr. 1, 1905	27.8	117,000
1906	Apr. 16, 1906	23.35	83,500
1907	Apr. 28, 1907	19.95	64,800
1908	Nov. 7, 1907	23.4	83,800
1909	Apr. 16, 1909	27.95	119,000
1910	Mar. 2, 1910	25.5	98,200
1911	Apr. 16, 1911	19.1	60,600
1912	Apr. 9, 1912	25.2	96,000
1913	Mar. 28, 1913	30.7	144,000
1914	Apr. 21, 1914	26.5	106,000
1915	Feb. 26, 1915	23.4	83,800
1916	Apr. 3, 1916	22.85	80,200
1917	Mar. 30, 1917	20.2	66,000
1918	Apr. 3, 1918	21.7	73,500
1919	Mar. 29, 1919	23.6	85,100
1920	Mar. 28, 1920	28.1	120,000
1921	Mar. 10, 1921	23.15	76,500
1922	Mar. 30, 1922	23.5	84,400
	Apr. 13, 1922	29.7	133,000
1923	Apr. 7, 1923	25.2	96,000
	Apr. 30, 1923	23.1	81,800
1924	Apr. 7, 1924	19.3	60,900
1925	Mar. 30, 1925	25.67	100,000
1926	Apr. 26, 1926	24.90	93,500
1927	Mar. 19, 1927	21.54	72,700
1928	Nov. 5, 1927	34.08	179,000
	Dec. 9, 1927	20.60	66,900
	Apr. 9, 1928	22.1	74,600
1929	Mar. 25, 1929	22.3	75,700
	Apr. 30, 1929	20.0	64,000
1930	Apr. 9, 1930	21.80	49,500
1931	Apr. 12, 1931	26.74	72,300
1932	Apr. 13, 1932	30.32	91,900
1933	Nov. 20, 1932	26.42	70,600
	Apr. 8, 1933	27.50	76,200
	Apr. 19, 1933	37.56	137,000
1934	Apr. 4, 1934	28.00	78,800
	Apr. 13, 1934	33.9	114,000
	Apr. 26, 1934	24.7	62,400
1935	Jan. 11, 1935	30.45	92,500
1936	Mar. 13, 1936	34.3	115,000
	Mar. 19, 1936	49.2	236,000
	Apr. 8, 1936	-	a65,000
1937	May 16, 1937	31.46	97,000
1938	Jan. 25, 1938	24.86	62,400
	Mar. 25, 1938	24.63	61,000
	Sept.22, 1938	44.74	195,000
1939	Dec. 7, 1938	27.46	74,500
1939	Dec. 11, 1938	26.70	70,600
	Apr. 23, 1939	31.74	98,200
1940	Apr. 13, 1940	30.10	88,600
	Apr. 20, 1940	27.40	74,000
	May 5, 1940	34.88	119,000
1941	Apr. 15, 1941	21.10	46,300
1942	Apr. 9, 1942	26.70	70,600
1943	Apr. 29, 1943	26.84	71,100
	May 13, 1943	26.60	70,100
1944	Nov. 10, 1943	26.50	69,600
	Apr. 11, 1944	25.00	62,800
	Apr. 25, 1944	26.25	68,500
1945	Mar. 22, 1945	29.57	85,600
	May 30, 1945	25.60	65,500
	Apr. 6, 1945	26.06	67,600
	Apr. 26, 1945	26.15	68,000
1946	Mar. 10, 1946	b27.41	a71,000
	Mar. 16, 1946	26.70	70,600
1947	Apr. 13, 1947	31.26	95,600
	June 4, 1947	25.75	66,200
1948	Mar. 23, 1948	35.90	126,000
	Mar. 28, 1948	27.28	73,400
	Apr. 2, 1948	26.02	67,400
1949	Dec.31,1948 to Jan. 1, 1949	37.76	139,000
1950	Apr. 6, 1950	28.43	79,400
	Apr.21-22,1950	26.20	68,200
1951	Nov. 27, 1950	26.60	70,100
	Apr. 1, 1951	32.30	102,000
	Apr. 14, 1951	28.15	77,800
1952	Apr. 6, 1952	30.99	93,900
	Apr. 15, 1952	25.97	67,200
	June 2, 1952	33.27	108,000
1953	Mar. 28, 1953	35.40	123,000
1954	Apr. 18, 1954	27.11	75,600
	Apr. 26, 1954	24.75	64,700
	May 12, 1954	24.41	63,100
1955	Apr. 16, 1955	28.28	81,400
1956	Oct. 15, 1955	24.84	65,100
	Apr. 18, 1956	28.30	81,500
	Apr. 30, 1956	31.80	99,400
1957	Jan. 24, 1957	b23.78	36,000
1958	Dec. 22, 1957	26.17	71,100
	Apr. 23, 1958	32.11	101,000
1959	Apr. 4, 1959	30.70	93,500
1960	Oct. 25, 1959	26.33	71,900
	Nov. 29, 1959	29.82	89,100
	Apr. 6, 1960	38.13	142,000
	Apr. 16, 1960	27.60	78,000

a About.
b Backwater from ice.

1715. Mill River at Northampton, Mass.

Location.--Lat 42°19'05", long 72°39'21", on right bank at Northampton, Hampshire County, 3½ miles upstream from mouth.

Drainage area.--Area, 52.8 sq mi. Area of lakes, reservoirs, and ponds, 0.43 sq mi. Length of main stream, 16.4 miles. Average slope above gage, 94.8 ft per mile. Average tributary slope, 218 ft per mile. Average land slope, 608 ft per mile. Stream density, 1.94 miles per square mile. Mean altitude of basin, 870 ft.

Gage.--Recording. Altitude of gage is 140 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,700 cfs and by flow-over-dam measurements at 2,850, 3,840, and 6,300 cfs. A major change in the relation occurred during the flood of Aug. 19, 1955.

Remarks.--Flow regulated by mill above station. Base for partial-duration series, 1,250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 6, 1938	4.88	1,920	1952	Nov. 3, 1951	5.23	1,400
	Apr. 6, 1939	4.52	1,480		Nov. 7, 1951	5.82	1,810
	Apr. 12, 1939	4.34	1,330		Apr. 5, 1952	7.58	2,850
	Apr. 19, 1939	4.27	1,280		Apr. 28, 1952	5.15	1,340
					June 1, 1952	7.46	2,790
1940	Apr. 9, 1940	6.14	2,000	1953	Dec. 11, 1952	5.83	1,820
	Apr. 12, 1940	5.55	1,620		Mar. 13, 1953	7.36	2,730
	May 31, 1940	6.05	1,950		Mar. 16, 1953	6.68	2,330
1941	Feb. 8, 1941	a8.47	b1,800		Mar. 24, 1953	7.15	2,610
	June 15, 1941	5.25	1,420		Mar. 26, 1953	6.42	2,170
					Mar. 27, 1953	5.71	1,750
1942	Dec. 24, 1941	5.69	1,720		Mar. 30, 1953	5.23	1,440
	Mar. 9, 1942	5.68	1,720		Apr. 14, 1953	4.95	1,260
	Mar. 17, 1942	5.71	1,740				
	Mar. 22, 1942	6.43	2,180	1954	Apr. 18, 1954	5.51	1,620
	May 17, 1942	5.59	1,650		Sept.11, 1954	6.66	2,320
	Aug. 14, 1942	5.75	1,760				
				1955	Dec. 15, 1954	5.66	1,720
1943	Nov. 25, 1942	5.94	2,020		Dec. 18, 1954	5.54	1,640
	Dec. 2, 1942	5.15	1,340		Apr. 25, 1955	5.80	1,800
					Aug. 19, 1955	11.78	6,300
1944	Nov. 9, 1943	6.31	2,110				
	Sept.15, 1944	5.11	1,320	1956	Oct. 15, 1955	9.81	5,010
					Oct. 17, 1955	7.00	3,020
1945	Jan. 2, 1945	a7.75	-		Oct. 31, 1955	7.88	3,660
	Apr. 26, 1945	7.06	2,560		Nov. 5, 1955	7.24	3,210
					June 3, 1956	5.37	1,720
1946	May 28, 1946	5.57	1,700				
				1957	Jan. 23, 1957	a4.64	-
1947	Apr. 5, 1947	4.92	1,200		Feb. 27, 1957	3.81	660
1948	Nov. 8, 1947	5.67	1,710	1958	Dec. 26, 1957	5.51	1,830
	Nov. 12, 1947	5.27	1,430		Apr. 6, 1958	6.15	2,340
	Mar. 22, 1948	6.53	2,240				
				1959	Jan. 22, 1959	a7.18	-
1949	Dec. 31, 1948	7.20	2,640		Apr. 3, 1959	5.64	1,930
	Jan. 6, 1949	5.39	1,510		July 20, 1959	4.92	1,360
1950	Mar. 9, 1950	a5.50	-	1960	Oct. 24, 1959	5.77	1,780
	Mar. 29, 1950	4.29	825		Feb. 11, 1960	5.47	1,600
					Mar. 31, 1960	-	1,300
1951	Mar. 31, 1951	9.38	3,840		Apr. 5, 1960	7.01	2,530
	Apr. 3, 1951	6.34	2,120		Sept.12, 1960	9.10	3,690

a Backwater from ice.
b Estimated.

1720. Connecticut River at Holyoke, Mass.

Location.--Lat 42°12'50", long 72°36'10", above dam of Holyoke Water Power Co. in Holyoke, Hampden County.

Drainage area.--8,309 sq mi.

Gage.--Recording.

Remarks.--Discharge determined by adding water wasting over dam to flow through canals. Flood discharge affected by a total storage capacity of 16,540,000,000 cu ft. Records furnished by Holyoke Water Power Co. Only annual maximum daily discharges are shown except as noted.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1881	May 18, 1881	-	49,000	1894	Apr. 25, 1894	-	43,300
1882	Dec. 30, 1881	-	46,800	1895	Apr. 16, 1895	-	115,000
1883	Apr. 14, 1883	-	68,300				
1884	Mar. 28, 1884	-	71,900	1896	Mar. 2, 1896	-	112,000
1885	Apr. 24, 1885	-	64,000	1897	June 11, 1897	-	75,400
				1898	Mar. 21, 1898	-	76,200
1886	Apr. 2, 1886	-	80,200	1899	Apr. 26, 1899	-	82,500
1887	Apr. 12, 1887	-	85,500				
1888	May 1, 1888	-	99,800	1928	Nov. 5, 1927	14.8	a183,000
1889	Dec. 19, 1888	-	59,300				
1890	May 8, 1890	-	46,800	1936	Mar. 19, 1936	-	226,100
					Mar.19-20,1936	16.8	a244,000
1891	Apr. 16, 1891	-	67,300				
1892	Jan. 15, 1892	-	63,100	1938	Sept.22, 1938	-	179,000
1893	May 5, 1893	-	94,400		Sept.22-23,1938	14.9	a189,000

a Momentary maximum discharge.

1725. Ware River near Barre, Mass.

Location.--Lat 42°25'35", long 72°01'30", on left bank 1,100 ft downstream from bridge at Barre Falls, 1.6 miles upstream from Burnshirt River, and 4 miles east of Barre, Worcester County.

Drainage area.--55.0 sq mi.

Gage.--Recording. Altitude of gage is 745 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs and extended above by logarithmic plotting.

Remarks.--Some regulation by Long Pond and other small 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)
1947	Mar. 16, 1947	4.56	459	1954	Sept.12, 1954	5.31	957
1948	Mar. 23, 1948	5.93	1,450	1955	Aug. 20, 1955	5.53	1,120
1949	Jan. 7, 1949	4.42	441				
1950	Mar. 30, 1950	4.48	467	1956	Oct. 16, 1955	6.31	1,890
				1957	Jan. 24, 1957	a4.63	365
1951	Feb. 9, 1951	a4.78	480	1958	Apr. 8, 1958	5.32	964
1952	Jan. 28, 1952	b6.24	525	1959	Apr. 3, 1959	5.37	999
1953	Mar. 16, 1953	4.80	620	1960	Apr. 21, 1960	5.38	1,030

a Backwater from ice.
b Occurred Dec. 20, 1951; backwater from ice.

1730. Ware River at Coldbrook, Mass.

Location.--Lat 42°23'30", long 72°03'40", on right bank above diversion dam at Ware River intake works at Coldbrook, Worcester County, 2 miles east of South Barre and 2.7 miles downstream from Burnshirt River.

Drainage area.--96.8 sq mi.

Gage.--Recording at site 0.2 mile downstream at datum 631.91 ft above mean sea level, unadjusted, prior to Feb. 1, 1936; recording and venturi meter thereafter. Datum of gage is 5.65 ft below mean sea level, datum of 1929.

Remarks.--Records furnished by Water Division, Metropolitan District Commission. Only annual maximum daily discharges are shown except as noted.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 16, 1929	5.31	a990	1945	Mar. 22, 1945	-	934
1930	Mar. 26, 1930	4.22	a425				
				1946	Mar. 10, 1946	-	1,170
1931	Apr. 4, 1931	-	a1,100	1947	Mar. 16, 1947	-	836
1932	Apr. 2, 1932	-	1,190	1948	Mar. 22, 1948	-	2,180
1933	Apr. 19, 1933	7.09	a1,400	1949	Jan. 7, 1949	-	803
1934	Apr. 13, 1934	6.83	a1,180	1950	Mar. 30, 1950	-	821
1935	Jan. 11, 1935	-	a976				
				1951	Apr. 4, 1951	-	890
1936	Mar. 19, 1936	661.35	a5,990	1952	Jan. 28, 1952	-	969
1937	Dec. 21, 1936	-	a1,090	1953	Mar. 16, 1953	-	1,270
1938	Sept.21, 1938	664.28	a14,000	1954	Sept.12, 1954	-	1,210
1939	Dec. 7, 1938	658.40	a961	1955	Aug. 20, 1955	-	1,750
1940	Apr. 13, 1940	-	a1,830				
				1956	Oct. 17, 1955	-	2,070
1941	May 10, 1941	-	a897	1957	Jan. 24, 1957	-	631
1942	Mar. 10, 1942	-	1,720	1958	Apr. 8, 1958	-	1,380
1943	Mar. 21, 1943	-	718	1959	Apr. 3, 1959	-	1,260
1944	June 25, 1944	-	2,680	1960	Apr. 5, 1960	-	1,170

a Momentary maximum discharge.

1735. Ware River at Gibbs Crossing, Mass.

Location.--Lat 42°14'07", long 72°16'45", on right bank half a mile upstream from Gibbs Crossing, Hampshire County, 1.8 miles upstream from Beaver Brook, and 2½ miles southwest of Ware.

Drainage area.--Area, 199 sq mi. Area of lakes, reservoirs, and ponds, 2.40 sq mi. Length of main stream, 38.9 miles. Average slope above gage, 15.5 ft per mile. Average tributary slope, 66.5 ft per mile. Average land slope, 357 ft per mile. Stream density, 1.52 miles per square mile. Mean altitude of basin, 910 ft.

Gage.--Recording. At site half a mile downstream at different datum prior to Mar. 1, 1930. Datum of gage is 379.79 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs and extended above on basis of contracted-opening measurement at 12,200 cfs and slope-area measurement at 22,700 cfs. Minor shifts in relation occur frequently.

Remarks.--Flow regulated by mills above station. Diversion at times since March 1931 from 97 sq mi in Ware River basin for supply of Boston metropolitan district. 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)
1913	Mar. 15, 1913	4.00	1,440	1914	Apr. 3, 1914	4.05	1,490
	Mar. 28, 1913	5.54	2,640		Apr. 9, 1914	4.14	1,580
	Apr.12-13,1913	4.20	1,640				
				1915	Jan. 19, 1915	5.40	2,520
1914	Mar. 2, 1914	a7.03	b3,360		Feb. 16, 1915	4.00	1,440
	Mar. 29, 1914	4.56	1,950		Feb. 26, 1915	5.48	2,560

a Backwater from ice.
b About.

Peak stages and discharges of Ware River at Gibbs Crossing, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Aug. 5, 1915	4.20	1,640
1916	Dec. 26, 1915	3.90	1,330
	Feb. 27, 1916	4.58	1,960
	Mar. 31, 1916	5.15	2,370
	July 28, 1916	4.50	1,900
1917	Feb. 28, 1917	a5.98	b2,200
	Mar. 28, 1917	5.25	2,430
1918	Mar. 23, 1918	3.84	1,260
1919	Mar. 2, 1919	5.50	2,570
	Mar. 29, 1919	4.60	1,980
	May 23, 1919	4.15	1,590
	Sept. 4, 1919	4.00	1,440
1920	Nov. 28, 1919	4.09	1,530
	Mar. 18, 1920	4.70	2,060
	Mar. 27, 1920	6.00	2,820
	Apr. 29, 1920	4.15	1,590
1921	Oct. 1, 1920	4.07	1,500
	Dec. 6, 1920	4.79	2,130
	Dec. 15, 1920	4.32	1,730
	Mar. 10, 1921	4.22	1,640
	Apr. 18, 1921	4.07	1,500
	May 1, 1921	4.90	2,200
	July 3, 1921	4.37	1,790
1922	Mar. 8, 1922	5.33	2,480
	Mar. 21, 1922	4.13	1,600
	Apr. 9, 1922	4.05	1,500
	May 6, 1922	4.02	1,460
	June 22, 1922	4.05	1,500
	June 26, 1922	4.02	1,460
	June 30, 1922	3.95	1,410
	July 5, 1922	4.25	1,680
1923	Jan. 2, 1923	3.94	1,410
	Mar. 17, 1923	4.01	1,460
	Mar. 24, 1923	5.10	2,340
	Apr. 6, 1923	6.00	2,820
	Apr. 30, 1923	5.00	2,270
1924	Jan. 12, 1924	4.88	2,200
	Apr. 8, 1924	6.25	2,950
	Apr. 20, 1924	3.94	1,410
	Apr. 23, 1924	4.02	1,460
1925	Feb. 12, 1925	4.18	1,620
	Mar. 2, 1925	3.98	1,440
	Mar. 20, 1925	4.00	1,460
1926	Mar. 26, 1926	3.97	1,430
	Apr. 10, 1926	4.03	1,490
1927	Mar.15,16,1927	4.34	1,690
	Mar. 22, 1927	4.03	1,460
1928	Nov. 4, 1927	6.23	2,840
	Dec. 9, 1927	4.37	1,780
	Dec. 15, 1927	4.10	1,560
	Apr. 25, 1928	4.05	1,520
	Apr. 30, 1928	3.99	1,470
	June 11, 1928	3.94	1,420
	Aug. 27, 1928	4.46	1,860
1929	Mar. 6, 1929	4.09	1,560
	Mar. 15, 1929	4.88	2,170
	Apr. 18, 1929	4.19	1,650
	Apr. 22, 1929	4.60	1,970
	May 4, 1929	3.99	1,470
1930	July 7, 1930	3.44	1,040
1931	Mar. 30, 1931	4.33	1,540
1932	Apr. 1, 1932	5.50	2,390
1933	Mar. 22, 1933	3.90	1,340
	Apr. 5, 1933	5.05	2,090
	Apr. 19, 1933	5.82	2,540
	Sept.17, 1933	6.48	2,960
1934	Mar. 5, 1934	a6.62	-
	Mar. 28, 1934	4.60	1,820
	Apr. 2, 1934	4.08	1,480
	Apr. 13, 1934	5.37	2,300
1935	Dec. 2, 1934	3.83	1,300
	Jan. 10, 1935	5.23	2,180
	Mar. 7, 1935	3.84	1,300
	Mar. 13, 1935	4.05	1,440
1936	Mar. 12, 1936	8.13	4,220
	Mar. 19, 1936	12.04	11,200
	Mar. 28, 1936	4.66	1,880
	Apr. 7, 1936	4.51	1,760
1937	Dec. 12, 1936	4.51	1,760
	Dec. 20, 1936	4.46	1,760
	Jan. 23, 1937	3.90	1,360
	Jan. 26, 1937	4.39	1,700
1938	Nov. 29, 1937	5.54	2,380
	Jan. 26, 1938	6.92	3,210
	Feb. 7, 1938	3.99	1,420
	June 14, 1938	3.95	1,400
	Sept.21, 1938	18.2	22,700
1939	Dec. 6, 1938	5.29	2,300
	Apr. 3, 1939	4.32	1,480
	Apr. 7, 1939	4.41	1,550
	Apr. 20, 1939	4.21	1,410
1940	Apr. 9, 1940	4.39	1,730
	Apr. 13, 1940	4.94	2,180
	June 1, 1940	3.84	1,300
1941	Feb. 8, 1941	3.24	878
1942	Mar. 9, 1942	5.55	2,570
	Mar. 17, 1942	4.12	1,340
1943	Mar. 12, 1943	3.96	1,240
1944	Mar. 17, 1944	4.28	1,440
	Mar. 24, 1944	4.29	1,450
	June 25, 1944	7.84	4,930
1945	Jan. 2, 1945	4.64	1,730
1946	Mar. 8, 1946	4.08	1,280
1947	Mar. 15, 1947	5.42	2,130
1948	Mar. 17, 1948	5.01	2,040
	Mar. 22, 1948	5.11	2,130
	May 19, 1948	4.35	1,440
1949	Jan. 7, 1949	5.03	2,060
1950	Mar. 9, 1950	3.68	880
1951	Nov. 26, 1950	4.50	1,580
	Feb. 8, 1951	4.69	1,750
	Feb. 18, 1951	4.29	1,390
	Feb. 22, 1951	4.42	1,510
	Mar. 31, 1951	4.30	1,400
	Apr. 3, 1951	4.35	1,440
1952	Nov. 4, 1951	4.72	1,780
	Jan. 27, 1952	4.90	1,940
1953	Jan. 25, 1953	5.48	2,460
	Mar. 16, 1953	5.09	2,110
	Mar. 30, 1953	4.34	1,440
	Apr. 17, 1953	4.95	1,980

a Backwater from ice.
b About.

Peak stages and discharges of Ware River at Gibbs Crossing, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 18, 1954	4.71	1,770	1957	Jan. 23, 1957	5.11	2,200
	Sept.12, 1954	5.42	2,410				
				1958	Apr. 7, 1958	4.60	1,720
1955	Nov. 4, 1954	4.56	1,620				
	Dec. 19, 1954	4.23	1,340	1959	Jan. 22, 1959	5.36	2,400
	Apr. 27, 1955	4.22	1,330		Mar. 6, 1959	5.30	2,350
	Aug. 19, 1955	12.83	12,200		Apr. 3, 1959	5.30	2,350
					July 21, 1959	4.54	1,670
1956	Oct. 17, 1955	5.37	2,410				
	Nov. 5, 1955	4.99	2,100	1960	Oct. 25, 1959	4.17	1,330
	Nov. 15, 1955	4.08	1,360		Dec. 13, 1959	4.15	1,320
	Jan. 10, 1956	4.33	1,570		Jan. 3, 1960	-	1,500
	Apr. 7, 1956	4.89	2,020		Mar. 31, 1960	7.03	4,000
	Apr. 17, 1956	5.55	2,580		Apr. 5, 1960	6.27	3,230
	Apr. 30, 1956	4.97	2,090		Sept.13, 1960	4.17	1,330

1740. Hop Brook near New Salem, Mass.

Location.--Lat 42°28'42", long 72°20'05", on right bank 1.5 miles upstream from mouth and 1½ miles south of New Salem, Franklin County.

Drainage area.--3.39 sq mi.

Gage.--Recording. Altitude of gage is 725 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 42 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 22, 1948	2.53	109	1956	Oct. 31, 1955	2.87	193
					Apr. 16, 1956	2.51	112
1949	Jan. 6, 1949	2.61	124		June 3, 1956	2.48	107
1950	Apr. 20, 1950	2.39	81	1957	June 26, 1957	2.63	135
1951	Nov. 26, 1950	2.70	150	1958	Dec. 21, 1957	2.72	155
	Mar. 31, 1951	2.71	152		Apr. 6, 1958	2.65	140
	Apr. 3, 1951	2.51	112				
				1959	Jan. 22, 1959	-	110
1952	Oct. 25, 1951	2.48	107		Mar. 6, 1959	a3.06	145
	Nov. 3, 1951	2.54	118		Mar. 21, 1959	2.54	116
	June 10, 1952	2.49	108		Apr. 2, 1959	2.98	225
					July 20, 1959	2.53	114
1953	Jan. 24, 1953	-	110				
	Mar. 13, 1953	2.54	118	1960	Oct. 24, 1959	3.17	289
	Mar. 16, 1953	2.68	146		Jan. 3, 1960	2.73	157
	Mar. 24, 1953	2.47	105		Mar. 31, 1960	2.76	171
					Apr. 4, 1960	2.68	152
1954	Sept.11, 1954	2.48	107		June 15, 1960	3.07	269
					Sept.12, 1960	2.84	193
1955	Aug. 13, 1955	2.69	148		Sept.20, 1960	2.61	136
	Aug. 19, 1955	3.13	275				

a Backwater from ice.

1745. East Branch Swift River near Hardwick, Mass.

Location.--Lat 42°23'36", long 72°14'21", on left bank 100 ft above spillway of regulating dam, 4.6 miles northwest of Hardwick, Worcester County.

Drainage area.--Area, 43.7 sq mi. Area of lakes, reservoirs, and ponds, 1.02 sq mi. Length of main stream, 14.3 miles. Average slope above gage, 38.2 ft per mile.

Gage.--Recording. Datum of gage is 504.70 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and extended above on basis of slope-area and contracted-opening measurements at 6,780 cfs (average). Large change in relation since March 1940.

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)
1937	Apr. 7, 1937	6.43	392	1951	Nov. 26, 1950	20.43	491
					Dec. 5, 1950	20.195	350
1938	Nov. 29, 1937	7.53	736		Feb. 8, 1951	20.43	491
	Jan. 26, 1938	7.95	892		Feb. 22, 1951	20.22	362
	June 29, 1938	6.72	466		Mar. 31, 1951	20.51	547
	July 20, 1938	7.10	585		Apr. 4, 1951	20.525	554
	July 22, 1938	6.93	529				
	July 30, 1938	6.84	502	1952	Nov. 4, 1951	20.34	434
	Aug. 2, 1938	6.73	469		Jan. 27, 1952	20.51	547
	Sept.21, 1938	15.05	6,780				
				1953	Jan. 25, 1953	20.70	680
1939	Dec.6,7, 1938	7.35	672		Mar. 14, 1953	20.36	446
	Apr. 7, 1939	6.61	390		Mar. 16, 1953	20.66	652
	Apr. 13, 1939	6.50	362		Mar.30-31,1953	20.37	443
	Apr. 20, 1939	6.72	431		Apr. 14, 1953	20.46	415
					Apr. 17, 1953	20.54	471
1940	Apr. 1, 1940	20.51	598				
	Apr. 9, 1940	20.77	792	1954	Dec. 7, 1953	20.20	350
	Apr. 13, 1940	21.05	1,000		Apr. 18, 1954	20.68	666
	Apr. 21, 1940	20.42	534		Sept.12, 1954	20.34	434
	May 5, 1940	20.45	555				
	June 1, 1940	20.52	605	1955	Nov. 4, 1954	20.245	374
					Apr. 27, 1955	20.30	410
1941	May 10, 1941	20.02	271		Aug. 19, 1955	21.865	1,650
1942	Mar. 9, 1942	21.43	1,240	1956	Oct.17-18,1955	20.51	547
	Mar. 18, 1942	20.57	590		Nov. 5, 1955	20.64	600
	Mar. 22, 1942	20.58	598		Jan. 10, 1956	20.24	374
					Apr. 7, 1956	20.33	428
1943	Mar. 21, 1943	20.18	339		Apr. 17, 1956	20.99	847
					Apr. 30, 1956	20.79	654
1944	Nov. 10, 1943	20.29	404				
	Mar. 25, 1944	20.33	428	1957	Jan. 23, 1957	20.495	540
	Apr. 17, 1944	20.26	386				
	Apr. 25, 1944	20.255	386	1958	Apr. 7, 1958	20.65	645
	June 25, 1944	22.49	2,300		Apr. 30, 1958	20.27	392
1945	Jan. 2, 1945	20.30	410	1959	Jan. 22, 1959	20.62	624
	Mar. 19, 1945	20.21	356		Mar. 7, 1959	20.56	582
	Mar. 22, 1945	20.29	404		Mar. 22, 1959	20.35	440
	Apr. 26, 1945	20.32	422		Apr. 3, 1959	21.06	948
	May 19, 1945	20.33	428		July 21, 1959	20.74	708
	June 16, 1945	20.29	404				
				1960	Oct. 25, 1959	20.475	526
1946	Mar. 9, 1946	20.78	736		Nov. 26, 1959	20.275	398
	June 28, 1946	20.21	356		Nov. 29, 1959	20.35	440
					Dec. 13, 1959	20.40	470
1947	Mar. 15, 1947	20.36	446		Jan. 4, 1960	20.505	540
					Mar. 31, 1960	21.24	1,090
1948	Mar. 23, 1948	20.98	884		Apr. 5, 1960	21.39	1,220
					Sept.13, 1960	20.535	568
1949	Jan. 6, 1949	20.55	575				
1950	Mar. 30, 1950	20.34	434				

1755. Swift River at West Ware, Mass.

Location.--Lat 42°16'04", long 72°19'59", on left bank at West Ware, Hampshire County, 1.4 miles downstream from Quabbin Reservoir, and 3½ miles east of Belchertown.

Drainage area.--Area, 188 sq mi, includes 1.6 sq mi drained by Beaver Brook, flow of which is diverted from Ware River basin; prior to January 1937, 186 sq mi. Area of lakes, reservoirs, and ponds, 2.07 sq mi. Length of main stream, 26.0 miles. Average tributary slope, 98.5 ft per mile. Average land slope, 468 ft per mile. Stream density, 1.59 miles per square mile. Mean altitude of basin, 800 ft.

Gage.--Nonrecording at site 400 ft upstream at same datum prior to Aug. 25, 1912; recording at present site thereafter. Datum of gage is 365.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Minor changes in relation occur.

Remarks.--Flow completely regulated since August 1939 by Quabbin 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)
1911	Mar. 31, 1911	-	1,380	1936	Mar. 19, 1936	15.00	7,590
1912	Mar. 18, 1912	-	2,390	1937	Dec. 21, 1936	5.68	1,040
1913	Mar. 29, 1913	8.43	1,900	1938	Sept.22, 1938	13.74	5,540
1914	Mar. 29, 1914	7.42	1,560	1939	Dec. 7, 1938	7.52	1,480
1915	Feb. 26, 1915	9.1	2,240	1940	Mar. 14, 1940	2.89	165
1916	Apr. 3, 1916	8.45	1,970	1941	Jan. 7, 1941	2.40	78
1917	Mar. 29, 1917	7.9	1,800	1942	Mar. 3, 1942	2.50	92
1918	Mar. 25, 1918	5.86	1,100	1943	May 7, 1943	2.66	115
1919	Mar. 30, 1919	6.48	1,350	1944	June 24, 1944	2.80	135
1920	Mar. 28, 1920	8.95	2,340	1945	Aug. 8, 1945	2.49	89
1921	May 2, 1921	8.80	2,280	1946	June 27, 1946	2.46	85
1922	July 1, 1922	8.0	1,960	1947	May 5, 1947	4.97	653
1923	Apr. 7, 1923	9.08	2,390	1948	June 9, 1948	5.95	968
1924	Apr. 9, 1924	7.66	1,820	1949	May 27, 1949	4.73	585
1925	Feb. 13, 1925	7.91	1,600	1950	Apr. 20, 1950	2.92	156
1926	Apr. 11, 1926	6.03	1,250	1951	Apr. 12, 1951	5.22	726
1927	Mar. 17, 1927	6.62	1,350	1952	June 2, 1952	5.52	817
1928	Nov. 6, 1927	8.60	2,230	1953	Apr. 17, 1953	8.05	1,770
1929	Mar. 17, 1929	7.21	1,630	1954	Aug. 31, 1954	2.96	176
1930	Mar. 27, 1930	4.63	720	1955	Aug. 19, 1955	5.68	903
1931	Mar. 31, 1931	6.32	1,220	1956	Apr. 30, 1956	8.37	1,870
1932	Apr. 2, 1932	8.13	1,980	1957	Sept.16, 1957	3.00	184
1933	Sept.18, 1933	9.07	2,200	1958	Sept.16, 1958	a3.10	178
1934	Apr. 14, 1934	7.52	1,770	1959	Mar. 6, 1959	3.20	225
1935	Jan. 11, 1935	7.27	1,540	1960	Apr. 27, 1960	5.40	845

a Occurred Feb. 18, 1958; backwater from ice.

1760. Quaboag River at West Brimfield, Mass.

Location.--Lat 42°10'56", long 72°15'51", on right bank 10 ft upstream from abandoned highway bridge at West Brimfield, Hampden County, 0.9 mile upstream from Blodgett Mill Brook, and 3½ miles northeast of Palmer.

Drainage area.--Area, 151 sq mi. Area of lakes, reservoirs, and ponds, 4.18 sq mi. Length of main stream, 27.8 miles. Average slope above gage, 8.62 ft per mile. Average tributary slope, 70.5 ft per mile. Average land slope, 371 ft per mile. Stream density, 1.56 miles per square mile. Mean altitude of basin, 840 ft.

Gage.--Recording. At several sites 0.5 mile downstream at datum 377.86 ft above mean sea level prior to Nov. 1, 1955. Altitude of present gage is 390 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended above on basis of slope-area measurements at 8,470 and 12,800 cfs. Major changes in relation occur frequently.

Remarks.--Base for partial-duration series, 840 cfs.

Peak stages and discharges of Quaboag River at West Brimfield, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Apr. 1, 1913	4.03	1,080
	Apr. 16, 1913	4.22	1,200
1914	Mar. 1, 1914	4.3	1,270
1915	Jan. 7, 1915	a5.2	b1,660
	Jan.11,13,1915	a4.75	-
	Jan. 18, 1915	a4.73	-
	Feb. 25, 1915	3.90	970
1916	Feb. 26, 1916	3.82	914
	Apr. 3, 1916	4.23	1,250
	July 27, 1916	3.75	898
1917	Feb. 27, 1917	-	(c)
	Mar.29,30,1917	4.02	1,100
1918	Mar. 7, 1918	3.92	1,020
1919	Mar. 1, 1919	4.46	1,360
	Mar. 28, 1919	4.07	1,070
1920	Mar. 17, 1920	5.3	1,980
	Mar. 29, 1920	4.62	1,470
1921	Mar. 11, 1921	3.83	878
	May 3, 1921	3.95	970
1922	Mar. 7, 1922	4.7	1,680
1923	Mar. 26, 1923	4.42	1,430
	Apr. 6, 1923	4.21	1,250
	Apr. 30, 1923	3.91	1,010
1924	Dec. 6, 1923	4.00	910
	Jan. 11, 1924	4.62	1,410
	Jan. 17, 1924	4.42	1,240
	Apr. 7, 1924	5.85	1,750
1925	Feb. 12, 1925	a5.88	b900
	Mar. 1, 1925	4.81	1,140
1926	Apr. 9, 1926	4.40	890
1927	Mar. 22, 1927	4.37	890
1928	Nov. 4, 1927	4.88	1,180
	Dec. 8, 1927	4.44	920
	Dec. 14, 1927	4.56	980
	Feb. 15, 1928	4.47	920
1929	Mar. 16, 1929	4.60	1,020
	Apr. 23, 1929	4.80	1,140
	May 3, 1929	4.65	1,050
1930	Mar. 26, 1930	3.73	556
1931	Apr. 1, 1931	4.59	1,070
1932	Apr. 1, 1932	4.49	995
	Apr. 12, 1932	4.33	905
1933	Apr. 7, 1933	4.78	1,140
	Apr. 18, 1933	5.28	1,500
	Sept.16, 1933	4.40	895
1934	Mar. 5, 1934	a7.10	-
	Apr. 2, 1934	4.65	868
	Apr. 12, 1934	5.01	1,050
	Sept.17, 1934	4.45	925
1935	Jan. 11, 1935	-	b1,150
	Mar. 13, 1935	4.60	920
1936	Mar. 12, 1936	a8.75	b2,370
	Mar. 18, 1936	8.62	3,620
	May 3, 1936	5.21	1,380
1937	Dec. 20, 1936	5.40	1,050
1938	Nov. 29, 1937	4.65	875
	Jan. 25, 1938	a6.20	b1,780
	July 25, 1938	4.97	1,070
	Sept.21, 1938	11.8	8,470
1939	Dec. 10, 1938	4.48	930
	Apr. 6, 1939	4.52	943
1940	Apr. 13, 1940	5.64	1,850
1941	Feb. 8, 1941	a5.29	b800
1942	Mar. 9, 1942	4.44	925
	Mar. 22, 1942	4.78	1,170
1943	Mar. 20. 1943	4.49	960
	May 22, 1943	4.36	862
1944	June 24, 1944	4.82	1,190
1945	Mar. 7, 1945	4.55	995
1946	Mar. 9, 1946	4.68	1,050
1947	Mar. 14, 1947	4.44	881
1948	Mar. 22, 1948	5.48	1,650
	June 8, 1948	5.19	1,430
1949	Jan. 6, 1949	4.10	670
1950	Mar. 31, 1950	4.24	736
1951	Feb. 22, 1951	4.50	910
	Apr. 3, 1951	4.88	1,180
1952	Jan. 28, 1952	4.59	973
1953	Jan. 24, 1953	5.10	1,360
	Mar. 16, 1953	4.93	1,180
	Apr. 1, 1953	4.82	1,100
	Apr. 16, 1953	5.27	1,450
	May 8, 1953	4.78	1,060
1954	Apr. 18, 1954	4.41	847
	Sept.11, 1954	5.00	1,280
1955	Dec. 21, 1954	4.42	854
	Aug. 19, 1955	14.79	12,800
1956	Oct. 19, 1955	4.97	1,260
	Nov. 5, 1955	5.75	1,020
	Jan. 10, 1956	a6.84	-
	Apr. 18, 1956	6.63	1,510
1957	Jan. 23, 1957	a7.17	780
1958	Apr. 8, 1958	6.19	1,240
1959	Jan. 22, 1959	a6.10	-
	Mar. 6, 1959	5.87	1,080
	Apr. 3, 1959	5.75	1,020
1960	Jan. 3, 1960	5.39	860
	Apr. 5, 1960	6.93	1,910
	Sept.12, 1960	5.32	942

a Backwater from ice.
b About.
c No record; greater than 840 cfs.

1770. Chicopee River at Indian Orchard, Mass.
(Published as "at Bircham Bend" prior to November 1938)

Location.--Lat 42°09'38", long 72°30'52", on left bank 1,000 ft downstream from West Street Bridge at Indian Orchard, Hampden County, and 1.1 miles upstream from Fuller Brook.

Drainage area.--Area, 688 sq mi. Area of lakes, reservoirs, and ponds, 9.91 sq mi. Length of main stream, 58.1 miles. Average slope above gage, 14.8 ft per mile. Average tributary slope, 52.2 ft per mile. Average land slope, 404 ft per mile. Stream density, 1.50 miles per square mile. Mean altitude of basin, 788 ft.

Gage.--Recording. At site 1¾ miles downstream at different datum prior to Nov. 1, 1938. Altitude of gage is 125 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs and extended above on basis of flow-over-dam measurement at 40,500 cfs. Minor changes in relation occur.

Remarks.--Diversion since 1941 from 186 sq mi in Swift River basin and at times since 1931 from 97 sq mi in Ware River basin for Boston metropolitan district and, since 1950, for city of Chicopee. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. Flow regulated by powerplants above station, by Quabbin Reservoir on Swift River since 1939, and by smaller 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)
1929	Mar. 15, 1929	5.44	6,700	1945	Jan. 2, 1945	8.10	3,580
1930	Mar. 27, 1930	3.78	3,010				
				1946	Mar. 8, 1946	8.03	3,490
1931	Mar. 30, 1931	4.71	4,840	1947	Mar. 15, 1947	8.86	4,050
1932	Apr. 2, 1932	5.21	5,840	1948	Mar. 22, 1948	9.79	5,250
1933	Apr. 20, 1933	5.59	6,790	1949	Jan. 7, 1949	8.50	3,620
1934	Mar. 5, 1934	5.44	6,360	1950	Mar. 30, 1950	7.52	2,510
1935	Jan. 10, 1935	5.43	6,010				
				1951	Apr. 4, 1951	8.91	4,340
1936	Mar. 19, 1936	9.87	20,400	1952	Jan. 28, 1952	9.02	4,500
1937	Dec. 21, 1936	4.70	4,860	1953	Apr. 17, 1953	10.52	6,330
1938	Sept.21, 1938	-	45,200	1954	Sept.12, 1954	9.05	4,280
1939	Apr. 7, 1939	-	a4,600	1955	Aug. 19, 1955	22.14	40,500
1940	Apr. 1, 1940	9.80	6,210				
				1956	Apr. 17, 1956	10.34	6,690
1941	Feb. 8, 1941	7.46	2,720	1957	Jan. 24, 1957	8.32	3,840
1942	Mar. 10, 1942	8.64	4,280	1958	Apr. 8, 1958	8.74	4,380
1943	Dec. 31, 1942	8.16	3,710	1959	Mar. 7, 1959	9.40	5,280
1944	June 25, 1944	10.06	6,670	1960	Mar. 31, 1960	10.86	7,560

a About.

1780. Mill River at Springfield, Mass.

Location.--Lat 42°05'39", long 72°34'03", on right bank 75 ft upstream from Hancock Street Bridge at Springfield, Hampden County, 0.25 mile downstream from Watershops Pond, and 1.0 mile upstream from mouth.

Drainage area.--33.9 sq mi.

Gage.--Recording. Datum of gage is 118.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 230 cfs and extended above.

Remarks.--Flow regulated by powerplant and by Watershops Pond (usable capacity, 70,600,000 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)
1939	Feb. 27, 1939	3.92	575	1946	May 16, 1946	3.47	334
1940	Apr. 1, 1940	4.53	740	1947	Aug. 20, 1947	3.12	240
				1948	Aug. 24, 1948	4.32	629
1941	Apr. 26, 1941	2.85	179	1949	Jan. 6, 1949	2.85	178
1942	Mar. 9, 1942	3.96	492	1950	Aug. 29, 1950	3.16	250
1943	May 19, 1943	3.25	270	1951	Apr. 4, 1951	3.37	306
1944	Nov. 9, 1943	3.75	423				
1945	Apr. 26, 1945	3.38	308	1955	Aug. 19, 1955	12.02	1,960

1785. Westfield River at West Chesterfield, Mass.

Location.--Lat 42°23'48", long 72°52'32", on right bank 0.2 mile downstream from West Branch and 0.5 mile downstream from highway bridge at West Chesterfield, Hampshire County.

Drainage area.--111 sq mi.

Gage.--Recording. Altitude of gage is 770 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs and extended above on basis of slope-area measurement at 16,000 cfs.

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)
1947	Apr. 6, 1947	6.37	4,180	1949	Dec. 31, 1948	11.93	16,000
	Apr. 12, 1947	5.77	3,300		Jan. 6, 1949	6.32	4,100
1948	Nov. 12, 1947	5.34	2,750	1950	Apr. 5, 1950	6.02	3,750
	Mar. 22, 1948	7.85	6,740				
	Mar. 28, 1948	5.34	2,720	1951	Nov. 26, 1950	9.59	10,400
	Apr. 1, 1948	5.55	3,000		Mar. 31, 1951	9.21	9,560
	May 17, 1948	5.88	3,450		Apr. 3, 1951	6.43	4,380

1795. Westfield River at Knightville, Mass.

Location.--Lat 42°17'16", long 72°51'53", on left bank at Knightville, Hampshire County, 0.2 mile downstream from Knightville Dam, 0.2 mile upstream from Sykes Brook, 2.4 miles upstream from Middle Branch, and 3.5 miles north of Huntington.

Drainage area.--Area, 162 sq mi. Area of lakes, reservoirs, and ponds, 0.44 sq mi. Length of main stream, 32.6 miles. Average slope above gage, 41.7 ft per mile. Average tributary slope, 125 ft per mile. Average land slope, 570 ft per mile. Stream density, 2.05 miles per square mile. Mean altitude of basin, 1,466 ft.

Gage.--Nonrecording at site 0.5 mile upstream at different datum prior to Jan. 11, 1935. Recording at site 700 ft upstream at datum 10.57 ft higher Jan. 11, 1935, to May 20, 1940. Nonrecording at site 700 ft upstream at datum 18.75 ft higher May 21 to Dec. 19, 1940; recording at present site and datum thereafter. Datum of gage is 461.25 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs and extended above on basis of slope-area measurements at 25,700 and 37,900 cfs. Large changes in relation due to changes in location of gages; none at present location.

Remarks.--Flow completely regulated by Knightville Reservoir since 1941. 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)
1910	Jan. 22, 1910	9.8	8,120	1924	Apr. 7, 1924	10.8	10,500
				1925	July 27, 1925	9.4	8,140
1911	Apr. 7, 1911	5.2	2,380				
1912	Mar. 15, 1912	9.2	7,280	1926	Apr. 25, 1926	7.6	5,710
1913	Mar. 27, 1913	8.9	6,860	1927	Mar. 14, 1927	7.0	4,870
1914	Mar. 28, 1914	8.0	5,680	1928	Nov. 3, 1927	15.2	16,000
1915	Aug. 4, 1915	9.9	8,260	1929	Apr. 21, 1929	7.2	5,170
				1930	Mar. 26, 1930	5.6	3,050
1916	Feb. 26, 1916	6.6	3,940				
1917	Mar. 28, 1917	6.0	3,230	1931	May 23, 1931	10.0	8,950
1918	Mar. 23, 1918	4.9	2,140	1932	Apr. 1, 1932	6.8	4,630
1919	May 22, 1919	9.4	7,210	1933	Sept.16, 1933	15.1	15,800
1920	Apr. 13, 1920	8.98	6,730	1934	Apr. 12, 1934	9.00	7,600
				1935	Jan. 10, 1935	7.0	4,900
1921	Dec. 14, 1920	9.0	6,730				
1922	May 19, 1922	7.6	5,710	1936	Mar. 18, 1936	24.07	25,700
1923	Apr. 5, 1923	6.7	4,480	1937	May 15, 1937	12.00	9,600

Peak stages and discharges of Westfield River at Knightville, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Sept.21, 1938	29.58	37,900	1950	Apr. 7, 1950	6.13	3,540
1939	Apr. 19, 1939	9.89	7,080				
1940	Apr. 12, 1940	9.95	6,840	1951	Apr. 7, 1951	6.40	4,090
				1952	June 6, 1952	6.02	3,330
1941	Feb. 8, 1941	6.12	3,520	1953	Apr. 3, 1953	6.50	4,340
1942	Mar. 22, 1942	a6.86	3,500	1954	Apr. 20, 1954	5.97	3,330
1943	Nov. 25, 1942	6.61	4,540	1955	Aug. 28, 1955	6.67	4,680
1944	Apr.26,27, 1944	4.67	1,350				
1945	Mar. 21, 1945	7.45	6,660	1956	May 2, 1956	6.53	4,370
				1957	Jan. 24, 1957	5.20	2,080
1946	May 28, 1946	5.75	2,840	1958	Apr. 20, 1958	6.31	3,900
1947	Apr. 7, 1947	6.29	3,860	1959	Apr. 5, 1959	5.72	2,850
1948	Mar. 25, 1948	6.65	4,640	1960	Apr. 13, 1960	6.14	3,570
1949	Jan. 4, 1949	6.96	5,370				

a Occurred Mar. 9, 1942; backwater from ice.

1800. Sykes Brook at Knightville, Mass.

Location.--Lat 42°17'27", long 72°52'15", on right bank 200 ft downstream from bridge on State Highway 112 at Knightville, Hampshire County, 0.4 mile upstream from mouth, 0.4 mile west of Knightville Dam, and 3.5 miles north of Huntington.

Drainage area.--Area, 1.64 sq mi. Area of lakes, reservoirs, and ponds, 0.01 sq mi. Length of main stream, 3.82 miles. Average slope above gage, 118 ft per mile.

Gage.--Recording. Datum of gage is 641.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 80 cfs and extended above. Changes in relation occur. Base for partial-duration series, 35 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 9, 1946	2.23	37	1954	Sept.11, 1954	2.48	54
1947	Apr. 5, 1947	2.325	49	1955	Nov. 3, 1954	2.26	38
	July 22, 1947	2.28	43		Dec. 14, 1954	2.27	39
					Apr. 25, 1955	2.255	38
1948	Nov. 8, 1947	2.26	41		Aug. 19, 1955	4.485	680
	Nov. 12, 1947	2.215	36				
	Mar. 22, 1948	2.555	95	1956	Oct. 15, 1955	2.915	149
					Oct. 31, 1955	2.39	55
1949	Dec. 31, 1948	3.09	187		Nov. 5, 1955	2.45	64
	Jan. 6, 1949	2.37	44		Apr. 16, 1956	2.30	42
					Apr. 28, 1956	2.325	45
1950	June 1, 1950	2.16	24				
				1957	Jan. 23, 1957	-	19
1951	Nov. 25, 1950	2.535	61		Jan. 24, 1957	a2.36	-
	Mar. 14, 1951	2.305	35				
	Mar. 31, 1951	2.59	67	1958	Apr. 6, 1958	2.515	74
	Apr. 3, 1951	2.45	50	1959	Mar. 6, 1959	a2.72	-
					Apr. 2, 1959	2.38	53
1952	Apr. 5, 1952	2.52	58				
	June 1, 1952	2.51	57	1960	Oct. 24, 1959	2.315	45
					Jan. 3, 1960	2.32	45
1953	Dec. 11, 1952	2.41	45		Feb. 11, 1960	-	40
	Mar. 13, 1953	2.55	62		Apr. 4, 1960	2.595	88
	Mar. 16, 1953	2.53	60		June 15, 1960	2.255	38
	Mar. 26, 1953	2.61	69		Sept.12, 1960	2.575	85

a Backwater from ice.

1805. Middle Branch Westfield River at Goss Heights, Mass.

Location.--Lat 42°15'31", long 72°52'23", on right bank at upstream side of highway bridge at Goss Heights, Hampshire County, 0.35 mile upstream from mouth and 1.7 miles north of Huntington.

Drainage area.--Area, 52.6 sq mi. Area of lakes, reservoirs, and ponds, 0.01 sq mi. Length of main stream, 19.5 miles. Average slope above gage, 79.0 ft per mile. Average tributary slope, 276 ft per mile. Average land slope, 655 ft per mile. Stream density, 2.24 miles per square mile. Mean altitude of basin, 1,418 ft.

Gage.--Nonrecording prior to Sept. 8, 1912; recording thereafter. At datum 1.00 ft higher prior to June 25, 1930. Datum of gage is 400.30 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended above on basis of contracted-opening measurements at 19,900 cfs. Medium changes in relation occur.

Remarks.--Base for partial-duration series, 1,650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Mar. 27, 1911	5.20	2,420	1928	June 9, 1928	5.13	2,460
					Aug. 26, 1928	6.45	3,800
1912	Mar. 16, 1912	5.10	2,330				
				1929	Apr. 21, 1929	4.62	1,950
1913	Feb. 28, 1913	a7.20	-				
	Mar. 27, 1913	5.38	2,600	1930	Mar. 26, 1930	4.33	990
1914	Oct. 26, 1913	4.40	1,730	1931	May 23, 1931	-	b2,300
	Nov. 9, 1913	5.06	2,290		June 10, 1931	6.02	2,340
	Mar. 28, 1914	5.10	2,330				
	Apr. 9, 1914	5.34	2,560	1932	Apr. 1, 1932	5.85	2,000
1915	Feb. 25, 1915	5.49	2,690	1933	Nov. 10, 1932	6.16	2,330
	July 8, 1915	7.33	4,500		Nov. 19, 1932	8.22	5,420
	Aug. 4, 1915	6.68	3,900		Aug. 24, 1933	5.66	1,830
					Sept.16, 1933	9.6	8,020
1916	Dec. 18, 1915	6.22	1,750				
	Dec. 26, 1915	5.70	2,900	1934	Apr. 1, 1934	5.91	2,110
	Feb. 26, 1916	a7.68	-		Apr. 12, 1934	6.70	2,850
					Sept.17, 1934	5.92	2,110
1917	Apr. 1, 1917	3.82	1,330				
				1935	Jan. 9, 1935	8.20	5,420
1918	Mar. 22, 1918	3.65	1,220				
				1936	Mar. 12, 1936	a13.87	-
1919	Mar. 28, 1919	6.05	3,350		Mar. 18, 1936	9.80	8,400
	May 22, 1919	5.80	3,100		Mar. 21, 1936	5.58	1,890
					Apr. 6, 1936	5.50	1,800
1920	Mar. 14, 1920	a7.79	b2,500				
	Apr. 5, 1920	4.53	1,980	1937	Feb. 22, 1937	6.65	3,040
	Apr. 13, 1920	6.93	4,230		May 15, 1937	6.78	3,250
1921	Oct. 1, 1920	4.76	2,160	1938	Oct. 20, 1937	6.73	3,150
	Nov. 23, 1920	5.05	2,380		Nov. 14, 1937	6.42	2,750
	Dec. 15, 1920	4.85	2,240		Jan. 25, 1938	a7.56	b3,000
	Mar. 9, 1921	6.35	3,650		June 13, 1938	-	-
					Sept.21, 1938	10.61	19,900
1922	Mar. 8, 1922	4.50	1,840				
	May 5, 1922	4.61	1,930	1939	Dec. 6, 1938	5.43	2,020
	May 19, 1922	5.4	2,650		Apr. 19, 1939	5.67	2,250
	June 21, 1922	4.53	1,840				
				1940	Mar. 31, 1940	a6.42	b1,750
1923	Apr. 5, 1923	4.59	2,010		Apr. 9, 1940	5.68	2,310
					Apr. 12, 1940	5.62	2,190
1924	Oct. 24, 1923	4.30	1,760		May 31, 1940	5.56	2,140
	Jan. 11, 1924	4.80	2,200				
	Apr. 7, 1924	4.88	2,270	1941	Feb. 8, 1941	a8.42	b1,600
	Apr. 19, 1924	4.58	2,020				
				1942	Mar. 9, 1942	a7.00	b2,700
1925	Feb. 12, 1925	a8.05	4,250		Mar. 22, 1942	5.99	2,710
1926	Apr. 25, 1926	4.43	1,660	1943	Nov. 1, 1942	5.48	2,080
					Nov. 25, 1942	6.28	3,150
1927	Mar. 14, 1927	4.25	1,540		May 26, 1943	5.88	2,570
1928	Oct. 13, 1927	5.99	2,760	1944	Nov. 9, 1943	6.62	3,670
	Nov. 3, 1927	8.26	5,860		Apr. 25, 1944	5.15	1,700

a Backwater from ice.
b Estimated.

Peak stages and discharges of Middle Branch Westfield River at Goss Heights, Mass.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 20, 1945	5.28	1,840	1953	Mar. 24, 1953	6.50	3,890
	Apr. 26, 1945	6.69	3,790		Mar. 26, 1953	6.61	4,090
	July 29, 1945	5.45	2,020		Mar. 27, 1953	4.96	2,000
1946	Mar. 9, 1946	5.31	1,870	1954	Mar. 3, 1954	4.69	1,760
					Apr. 17, 1954	5.36	2,400
1947	Jan. 31, 1947	a9.48	-		Sept.11, 1954	6.30	3,560
	Apr. 6, 1947	5.65	2,250	1955	Nov. 3, 1954	-	b2,300
1948	Nov. 12, 1947	5.43	2,000		Nov. 21, 1954	5.50	2,580
	Mar. 22, 1948	6.45	3,400		Apr. 25, 1955	4.85	1,920
	May 17, 1948	5.11	1,660		Aug. 19, 1955	11.33	16,500
1949	Dec. 31, 1948	8.65	9,600	1956	Oct. 15, 1955	6.91	6,460
	Jan. 6, 1949	5.28	1,840		Oct. 31, 1955	5.21	3,420
					Nov. 5, 1955	4.46	2,330
1950	Apr. 4, 1950	4.91	1,700		Apr. 29, 1956	4.58	2,480
1951	Nov. 26, 1950	8.31	8,320	1957	Jan. 23, 1957	4.07	1,850
	Mar. 31, 1951	7.08	5,020		Jan. 23, 1957	a4.97	-
	Apr. 3, 1951	5.41	2,250	1958	Dec. 21, 1957	4.45	2,320
1952	Nov. 3, 1951	5.58	2,450		Apr. 6, 1958	4.44	2,300
	Nov. 7, 1951	5.13	1,930				
	Apr. 5, 1952	6.07	3,230	1959	Jan. 22, 1959	a5.97	-
	May 12, 1952	4.66	1,730		Apr. 3, 1959	4.20	2,000
	June 1, 1952	7.06	4,980				
	Sept. 1, 1952	4.72	1,790	1960	Oct. 24, 1959	5.97	4,700
					Jan. 3, 1960	4.76	2,730
1953	Dec. 11, 1952	6.79	4,420		Feb. 11, 1960	3.93	1,690
	Jan. 24, 1953	4.78	1,840		Apr. 5, 1960	4.81	2,800
	Mar. 13, 1953	5.87	2,970		Sept.12, 1960	5.36	3,660
	Mar. 16, 1953	5.82	2,910				

a Backwater from ice.
b Estimated.

1810. West Branch Westfield River at Huntington, Mass.

Location.--Lat 42°14'14", long 72°53'46", on left bank at Huntington, Hampshire County, 0.4 mile downstream from Roaring Brook and 1½ miles upstream from mouth.

Drainage area.--Area, 93.7 sq mi. Area of lakes, reservoirs, and ponds, 0.49 sq mi. Length of main stream, 21.0 miles. Average slope above gage, 54.9 ft per mile. Average tributary slope, 208 ft per mile. Average land slope, 695 ft per mile. Stream density, 1.95 miles per square mile. Mean altitude of basin, 1,420 ft.

Gage.--Recording. Datum of gage is 388.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,500 cfs by flow-over-dam measurements at 12,200, 14,400, and 26,100 cfs, and by slope-area measurements at 21,800 and 26,100 cfs. A major change in the relation occurred during the flood of Aug. 19, 1955.

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)
1936	Mar. 12, 1936	8.60	5,630	1939	Dec. 6, 1938	-	a3,200
	Mar. 18, 1936	12.95	14,400		Apr. 6, 1939	7.15	4,140
	Mar. 21, 1936	6.26	3,150		Apr. 12, 1939	-	a4,000
					Apr. 19, 1939	6.66	3,570
1937	Feb. 22, 1937	7.15	4,240				
	May 15, 1937	7.73	4,920	1940	Mar. 31, 1940	5.12	2,300
					Apr. 9, 1940	6.38	3,510
1938	Oct. 20, 1937	6.93	3,790		Apr. 12, 1940	6.47	3,610
	Nov. 14, 1937	6.41	3,240		Apr. 20, 1940	5.00	2,220
	Jan. 25, 1938	6.60	3,460		May 31, 1940	5.90	3,010
	June 13, 1938	6.45	3,240				
	Sept.21, 1938	15.5	21,800	1941	Feb. 8, 1941	b5.57	2,140

a Estimated.
b Backwater from ice.

Peak stages and discharges of West Branch Westfield River at Huntington, Mass.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 9, 1942	6.20	3,310	1953	Dec. 11, 1952	7.14	4,600
	Mar. 22, 1942	6.32	3,410		Jan. 24, 1953	5.64	3,080
					Mar. 13, 1953	7.05	4,500
1943	Nov. 25, 1942	7.20	4,380		Mar. 16, 1953	6.82	4,250
	May 26, 1943	5.91	3,010		Mar. 24, 1953	6.65	4,060
					Mar. 26, 1953	6.36	3,760
1944	Nov. 9, 1943	7.27	4,460		Mar. 27, 1953	5.44	2,900
	Apr. 24, 1944	5.30	2,470				
				1954	Apr. 17, 1954	6.19	3,590
1945	Mar. 17, 1945	5.30	2,470		Sept.11, 1954	7.86	5,430
	Mar. 20, 1945	5.61	2,750				
	Apr. 26, 1945	7.72	5,000	1955	Nov. 3, 1954	5.63	3,070
	July 22, 1945	5.03	2,170		Nov. 21, 1954	6.05	3,450
	July 29, 1945	6.86	4,010		Dec. 15, 1954	5.28	2,750
					Aug. 19, 1955	15.27	26,100
1946	Jan. 7, 1946	5.22	2,340				
	Mar. 9, 1946	5.66	2,780	1956	Oct. 15, 1955	10.47	12,400
					Oct. 31, 1955	6.13	4,280
1947	Apr. 6, 1947	6.27	3,380		Nov. 5, 1955	5.22	3,090
					Apr. 16, 1956	5.27	3,150
1948	Nov. 12, 1947	5.67	2,760		Apr. 29, 1956	6.62	5,030
	Mar. 22, 1948	7.01	4,170				
				1957	Jan. 23, 1957	5.09	2,940
1949	Dec. 31, 1948	11.93	12,200		Jan. 23, 1957	b5.33	-
	Jan. 6, 1949	6.42	3,520				
				1958	Dec. 21, 1957	5.44	3,360
1950	Apr. 4, 1950	5.22	2,350		Apr. 6, 1958	5.76	3,770
1951	Nov. 26, 1950	11.17	10,600	1959	Apr. 2, 1959	5.85	3,890
	Mar. 31, 1951	8.85	6,530				
	Apr. 3, 1951	6.97	4,130	1960	Oct. 24, 1959	6.05	4,170
					Jan. 3, 1960	6.09	4,230
1952	Nov. 3, 1951	5.94	3,030		Mar. 31, 1960	5.00	2,830
	Apr. 5, 1952	7.16	4,630		Apr. 5, 1960	6.50	4,840
	May 12, 1952	5.87	3,280		Sept.12, 1960	6.09	4,230
	June 1, 1952	7.85	5,420				

b Backwater from ice.

1820. Borden Brook near Westfield, Mass.
(Published as "near Blandford", 1910-12)

Location.--Lat 42°07'45", long 72°56'20", on Borden Brook at outlet of Borden Brook Reservoir, 2 miles upstream from confluence of Borden and Pebble Brooks, 3½ miles south of Blandford, Hampden County, and about 10 miles west of Westfield.

Drainage area.--8 sq mi.

Gage.--Recording. Altitude of gage is 1,075 ft (from topographic map).

Remarks.--Flow regulated by Borden Brook Reservoir (usable capacity, 344,000,000 cu ft). Records furnished by Board of Water Commissioners, Springfield. Only annual maximum daily discharges are shown.

Maximum daily mean discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Apr. 26, 1910	-	239	1915	Feb. 25, 1915	-	245
1911	Mar. 29, 1911	-	121	1916	Apr. 1, 1916	-	142
1912	Oct. 21, 1911	-	294	1917	Mar. 27, 1917	-	187
1913	Mar. 27, 1913	-	164	1918	Mar. 4, 1918	-	309
1914	Mar. 27, 1914	-	255				

1835. Westfield River near Westfield, Mass.

Location.--Lat 42°06'24", long 72°41'58", on left bank 0.7 mile downstream from Great Brook and 3 miles east of Westfield, Hampden County.

Drainage area.--Area, 497 sq mi. Area of lakes, reservoirs, and ponds, 3.17 sq mi. Length of main stream, 53.7 miles. Average slope above gage, 28.8 ft per mile. Average tributary slope, 115 ft per mile. Average land slope, 567 ft per mile. Stream density, 1.77 miles per square mile. Mean altitude of basin, 1,195 ft.

Gage.--Recording. Datum of gage is 98.25 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs and extended above on basis of flow-over-dam measurements at 48,200 and 55,500 cfs.

Remarks.--Flow regulated by diversion from Westfield Little River for municipal supply of Springfield and by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, and Knightville Reservoir since 1941 (combined capacity, 5½ billion cubic feet). 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)
1915	Feb. 25, 1915	18.26	22,200	1938	Sept.21,22,1938	29.40	55,500
				1939	Apr. 20, 1939	13.71	12,700
1916	Dec. 26, 1915	13.39	11,800	1940	Apr. 9, 1940	13.77	12,800
1917	Mar. 28, 1917	14.46	13,000		Apr. 12, 1940	13.77	12,800
1918	Oct. 30, 1917	11.10	7,900				
1919	May 22, 1919	17.4	20,200	1941	Feb. 8, 1941	10.85	7,730
1920	Apr. 13, 1920	17.0	19,200	1942	Mar. 9, 1942	13.40	12,100
				1943	Nov. 25, 1942	14.90	15,000
1921	Dec. 15, 1920	15.9	16,800	1944	Nov. 9, 1943	13.17	11,700
1922	May 19, 1922	14.3	12,700	1945	Apr. 26, 1945	13.65	12,600
1923	Apr. 6, 1923	13.22	11,100				
1924	Apr. 7, 1924	22.13	32,500	1946	Mar. 9, 1946	11.05	8,130
1925	Feb. 12, 1925	15.55	16,200	1947	Apr. 6, 1947	10.99	8,030
				1948	Mar. 22, 1948	13.12	11,300
1926	Apr. 25, 1926	11.75	8,880	1949	Dec. 31, 1948	22.00	32,200
1927	Mar. 14, 1927	11.77	9,060	1950	Apr. 5, 1950	9.79	5,960
1928	Nov. 4, 1927	25.41	42,500				
1929	Apr. 21, 1929	13.82	12,600	1951	Nov. 26, 1950	16.51	18,100
1930	Mar. 8, 1930	11.10	7,870	1952	June 2, 1952	14.97	14,800
				1953	Mar. 13, 1953	13.10	11,200
1931	May 23, 1931	15.71	16,500	1954	Sept.11, 1954	13.46	11,900
1932	Apr. 1, 1932	13.40	11,900	1955	Aug. 19, 1955	34.2	70,300
1933	Sept.16, 1933	22.66	34,600				
1934	Apr. 12, 1934	16.54	18,000	1956	Oct. 16, 1955	21.79	31,100
1935	Jan. 10, 1935	15.45	15,800	1957	Jan. 23, 1957	9.8	6,140
				1958	Apr. 7, 1958	11.48	8,740
1936	Mar. 18, 1936	27.20	48,200	1959	Apr. 3, 1959	11.57	8,880
1937	May 15, 1937	17.90	21,400	1960	Apr. 5, 1960	12.47	10,300

1840. Connecticut River at Thompsonville, Conn.

Location.--Lat 41°59'14", long 72°36'21", on right bank just upstream from Enfield Dam, 1 mile downstream from Thompsonville, Hartford County.

Drainage area.--Area, 9,661 sq mi. Area of lakes, reservoirs, and ponds, 80.9 sq mi. Length of main stream, 329 miles. Average slope above gage, 3.56 ft per mile.

Gage.--Recording on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Changes in relation occur.

Remarks.--Flow regulated by powerplants, by diversion from Chicopee River basin, and by First Connecticut and Second Connecticut Lakes, Lake Francis since 1940, Comerford Station Pond since 1930, Quabbin Reservoir since 1939, and other reservoirs (combined capacity, about 88½ billion cubic feet). Only annual peaks are shown.

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Peak stages and discharges of Connecticut River at Thompsonville, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 25, 1929	7.49	84,800	1945	Mar. 22, 1945	6.92	95,000
1930	Apr. 9, 1930	6.28	57,600				
				1946	Mar. 11, 1946	5.88	75,800
1931	Apr. 12, 1931	7.46	78,000	1947	Apr. 14, 1947	7.05	97,000
1932	Apr. 14, 1932	8.28	98,400	1948	Mar. 23, 1948	8.93	131,000
1933	Apr. 20, 1933	10.47	153,000	1949	Jan. 1, 1949	9.30	138,000
1934	Apr. 14, 1934	8.96	124,000	1950	Apr. 6, 1950	6.30	84,300
1935	Jan. 11, 1935	8.14	100,000				
				1951	Apr. 1, 1951	7.52	106,000
1936	Mar. 20, 1936	16.6	282,000	1952	June 3, 1952	7.60	113,000
1937	May 16, 1937	7.42	103,000	1953	Mar. 28, 1953	8.60	131,000
1938	Sept.22,23,1938	14.40	236,000	1954	Apr. 19, 1954	6.00	83,500
1939	Apr. 24, 1939	7.36	103,000	1955	Aug. 19, 1955	10.93	174,000
1940	May 6, 1940	8.42	121,000				
				1956	May 1, 1956	7.40	110,000
1941	Apr.16,17, 1941	4.40	50,000	1957	Jan. 25, 1957	4.07	47,100
1942	Apr. 9, 1942	5.70	73,200	1958	Apr. 24, 1958	7.36	109,000
1943	Apr. 29, 1943	5.80	75,000	1959	Apr. 5, 1959	6.86	99,700
1944	Apr. 26, 1944	5.83	75,400	1960	Apr. 6, 1960	10.01	156,000

1845. Scantic River at Broad Brook, Conn.

Location.--Lat 41°54'42", long 72°33'48", on left bank 300 ft upstream from bridge on State Highway 140, half a mile downstream from Broad Brook, 1 mile southwest of town of Broad Brook, Hartford County, and 8¼ miles upstream from mouth.

Drainage area.--Area, 98.4 sq mi. Area of lakes, reservoirs, and ponds, 0.34 sq mi. Length of main stream, 24.7 miles. Average slope above gage, 15.1 ft per mile. Average tributary slope, 105 ft per mile. Average land slope, 381 ft per mile. Stream density, 1.58 miles per square mile. Mean altitude of basin, 407 ft.

Gage.--Recording. Datum of gage is 26.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and at 4,570 and 4,100 cfs Sept. 21, 1938, by flow-over-dam measurements 7 and 9 miles above station, adjusted for flow from intervening area on basis of flow-over-dam measurement on Broad Brook, and at 13,300 cfs by slope-area measurement.

Remarks.--Flood records not affected by regulation. 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)
1929	Feb. 7, 1929	7.37	1,070	1935	Mar. 7, 1935	7.0	a1,000
	Mar. 6, 1929	8.27	1,260		Mar. 13, 1935	5.4	a700
	Mar. 15, 1929	5.75	769				
	Apr. 18, 1929	5.80	769	1936	Jan. 16, 1936	5.20	664
	Apr. 22, 1929	6.80	952		Mar. 13, 1936	10.17	1,820
					Mar. 19, 1936	9.89	1,710
1930	Feb. 13, 1930	3.45	378		Mar. 21, 1936	b12.31	-
					Mar. 22, 1936	-	1,170
1931	June 11, 1931	4.88	613		Mar. 29, 1936	5.07	647
					Apr. 7, 1936	a5.1	650
1932	Mar. 28, 1932	5.15	664				
				1937	Dec. 12, 1936	5.65	733
1933	Mar. 23, 1933	6.44	877		Dec. 20, 1936	5.43	698
	Apr. 6, 1933	4.92	613		Jan. 25, 1937	a4.8	600
	Apr. 14, 1933	5.71	751		Mar. 16, 1937	4.60	563
1934	Jan. 9, 1934	4.90	613	1938	Nov. 30, 1937	7.05	990
	Mar. 6, 1934	9.8	1,670		Jan. 26, 1938	10.15	1,810
	Apr. 13, 1934	5.85	769		June 14, 1938	5.90	787
					June 29, 1938	5.32	681
1935	Oct. 1, 1934	4.75	596		July 24, 1938	6.85	962
	Jan. 11, 1935	8.5	1,290		Sept.21, 1938	c16.08	7,360
	Feb. 26, 1935	5.25	664		Sept.21, 1938	d14.4	5,130

a Estimated. b Backwater from Connecticut River. c Result of dam failure.
d Estimated natural peak.

Peak stages and discharges of Scantic River at Broad Brook, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 7, 1938	8.52	1,050	1952	Nov. 5, 1951	5.30	599
	Jan. 6, 1939	5.65	550		Dec. 23, 1951	5.88	689
	Feb. 15, 1939	8.70	1,110		Jan. 28, 1952	5.48	627
	Feb. 27, 1939	5.89	576		Mar. 12, 1952	7.40	995
	Mar. 1, 1939	6.86	713				
	Apr. 3, 1939	5.90	576	1953	Jan. 25, 1953	9.36	1,550
	Apr. 8, 1939	5.70	554		Mar. 27, 1953	8.16	1,200
					Mar. 31, 1953	7.88	1,120
1940	Jan. 15, 1940	7.47	840		Apr. 9, 1953	5.67	657
	Mar. 15, 1940	7.71	880		Apr. 14, 1953	8.31	1,220
	Mar. 21, 1940	6.50	653		Apr. 17, 1953	7.33	970
	Mar. 31, 1940	9.26	1,290		May 2, 1953	5.44	613
	Apr. 10, 1940	7.06	760				
	Apr. 13, 1940	8.53	1,050	1954	Apr. 19, 1954	5.84	673
	Apr. 22, 1940	6.32	626		Sept.13, 1954	5.69	657
	June 2, 1940	7.70	880				
				1955	Mar. 24, 1955	5.33	599
1941	Feb. 8, 1941	8.66	1,110		Aug. 19, 1955	19.9	13,300
1942	Mar. 10, 1942	5.96	598	1956	Oct. 17, 1955	7.44	879
	Mar. 23, 1942	6.07	611		Nov. 1, 1955	7.40	869
					Nov. 6, 1955	8.90	1,320
1943	Nov. 27, 1942	6.23	655		Nov. 12, 1955	5.90	591
	Dec. 3, 1942	5.23	526		Mar. 8, 1956	5.79	577
	Dec. 30 or 31, 1942	9.54	1,370		Apr. 6, 1956	8.13	1,060
				1957	Jan. 24, 1957	5.00	560
1944	June 25, 1944	8.01	920		Apr. 7, 1957	5.61	642
1945	Jan. 2, 1945	6.40	639	1958	Jan. 28, 1958	5.39	613
	Feb. 28, 1945	8.11	945		Feb. 28, 1958	5.06	573
	Mar. 4, 1945	6.49	653		Apr. 8, 1958	5.06	573
1946	Feb. 14, 1946	5.61	550	1959	Nov. 29, 1958	5.84	673
					Jan. 23, 1959	6.41	778
1947	Mar. 16, 1947	4.47	475		Mar. 7, 1959	7.27	986
					Mar. 16, 1959	5.28	599
1948	Mar. 17, 1948	9.47	1,580		Apr. 4, 1959	7.79	1,130
	Mar. 23, 1948	7.79	1,100		Sept. 5, 1959	4.99	560
	June 10, 1948	5.85	658				
				1960	Oct. 26, 1959	6.97	908
1949	Jan. 7, 1949	4.40	500		Nov. 27, 1959	4.98	556
					Dec. 14, 1959	6.76	860
1950	Mar. 9, 1950	5.38	610		Jan. 4, 1960	8.22	1,250
					Feb. 12, 1960	6.61	817
1951	Feb. 8, 1951	7.11	923		Feb. 19, 1960	7.00	908
	Feb. 18, 1951	4.96	560		Apr. 1, 1960	9.07	1,540
	Feb. 23, 1951	5.87	689		Apr. 6, 1960	8.08	1,220
	Apr. 1, 1951	7.60	1,040		June 4, 1960	8.46	1,340
	Apr. 4, 1951	7.23	946		Sept.13, 1960	6.70	838

1855. West Branch Farmington River near New Boston, Mass.
(Published as Farmington River near New Boston prior to October 1948)

Location.--Lat 42°04'45", long 73°04'24", on left bank 5 ft downstream from highway bridge, 0.3 mile downstream from Clam River, and 1 mile south of New Boston, Berkshire County.

Drainage area.--92.0 sq mi.

Gage.--Recording. Datum of gage is 758.21 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,600 cfs and extended above on basis of slope-area measurement at 34,300 cfs.

Remarks.--Flow regulated by Otis Reservoir (usable capacity, 780,000,000 cu ft). Base for partial-duration series, 1,400 cfs.

Peak stages and discharges of West Branch Farmington River near New Boston, Mass.

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Oct. 26, 1913	7.64	3,200
	Mar. 28, 1914	6.75	2,320
	Apr. 8, 1914	6.68	2,190
1915	Jan. 13, 1915	6.12	1,500
	Jan. 18, 1915	6.02	1,400
	Feb. 25, 1915	7.15	2,600
	Apr. 12, 1915	6.14	1,500
	July 8, 1915	6.50	1,940
	Aug. 4, 1915	6.80	2,320
1916	Dec. 26, 1915	6.72	2,120
	Feb. 26, 1916	a8.75	-
	Apr. 1, 1916	6.20	1,600
1917	Jan. 14, 1917	a7.9	-
	Mar. 27, 1917	6.5	1,900
1918	Feb. 20, 1918	a8.9	-
	Mar. 22, 1918	5.54	1,010
1919	Mar. 28, 1919	7.11	2,540
	May 22, 1919	6.84	2,390
1920	Apr. 5, 1920	6.20	1,660
	Apr. 13, 1920	6.99	2,390
	Aug. 16, 1920	6.56	2,000
1921	Oct. 1, 1920	6.92	2,460
	Nov. 23, 1920	6.65	2,120
	Dec. 5, 1920	6.80	2,320
	Dec. 14, 1920	6.85	2,390
	Mar. 9, 1921	7.10	2,520
1922	Mar. 29, 1922	6.8	2,200
	Apr. 8, 1922	6.05	1,450
	May 5, 1922	6.32	1,710
1923	Apr. 5, 1923	6.4	1,800
	Apr. 29, 1923	6.04	1,400
1924	Oct. 24, 1923	6.32	1,710
	Jan. 11, 1924	6.70	2,190
	Apr. 7, 1924	7.84	3,960
	Apr. 19, 1924	6.26	1,660
1925	Feb. 12, 1925	a8.85	2,050
	July 27, 1925	6.50	1,940
1926	Apr. 25, 1926	6.34	1,740
1927	Aug. 8, 1927	6.44	1,820
1928	Oct. 13, 1927	7.76	3,960
	Nov. 3, 1927	9.42	6,610
	Nov. 18, 1927	6.85	2,320
	Dec. 8, 1927	6.28	1,710
	Jan. 1, 1928	6.28	1,710
	Jan. 25, 1928	6.02	1,400
	Feb. 14, 1928	6.32	1,710
	June 9, 1928	6.08	1,500
	Aug. 26, 1928	7.40	3,240
	Sept. 3, 1928	6.21	1,600
1929	Mar. 16, 1929	6.46	1,940
	Apr. 21, 1929	6.95	2,590
1930	Mar. 8, 1930	5.60	1,100
1931	June 10, 1931	6.10	1,450
1932	Apr. 1, 1932	6.66	1,980
	Apr. 12, 1932	6.38	1,710
1933	Nov. 10, 1932	6.28	1,610
	Nov. 19, 1932	8.00	3,610
1933	Apr. 7, 1933	6.25	1,560
	Aug. 24, 1933	6.12	1,410
	Sept.16, 1933	7.55	3,020
1934	Apr. 1, 1934	-	b2,000
	Apr. 12, 1934	6.88	2,250
1935	Nov. 6, 1934	6.20	1,520
	Jan. 10, 1935	7.40	3,060
1936	Mar. 12, 1936	a11.20	5,080
	Mar. 18, 1936	10.65	9,080
	Apr. 6, 1936	6.45	1,800
1937	Feb. 22, 1937	6.77	2,160
	May 15, 1937	7.57	3,280
1938	Oct. 20, 1937	7.76	3,260
	Nov. 14, 1937	6.40	1,580
	Jan. 25, 1938	7.87	3,400
	June 27, 1938	7.37	2,680
	July 29, 1938	6.50	1,680
	Sept.21, 1938	12.94	18,500
1939	Dec. 6, 1938	6.73	1,940
	Apr. 6, 1939	6.28	1,490
	Apr. 12, 1939	6.45	1,630
	Apr. 19, 1939	7.02	2,220
1940	Apr. 8, 1940	6.78	1,990
	Apr. 12, 1940	7.07	2,280
1941	Feb. 8, 1941	a6.73	b1,450
1942	Mar. 9, 1942	a8.19	b2,500
	Mar. 22, 1942	6.63	1,830
1943	Nov. 1, 1942	6.33	1,540
	Nov. 25, 1942	6.63	1,830
	May 26, 1943	6.45	1,630
1944	Nov. 9, 1943	7.30	2,610
	Apr. 24, 1944	6.32	1,510
	Sept.15, 1944	6.29	1,480
1945	Mar. 18, 1945	6.31	1,500
	Mar. 20, 1945	6.66	1,840
	Apr. 25, 1945	7.18	2,450
	May 18, 1945	6.34	1,530
	July 29, 1945	6.85	2,040
	Sept.15, 1945	6.65	1,830
1946	Jan. 6, 1946	a7.99	-
	Mar. 9, 1946	-	b1,500
1947	Jan. 31, 1947	a7.87	-
	Apr. 6, 1947	6.68	1,860
1948	Nov. 12, 1947	6.21	1,490
	Mar. 17, 1948	a9.25	-
	Mar. 22, 1948	7.48	3,180
1949	Dec. 31, 1948	10.50	11,700
	Jan. 6, 1949	7.60	3,380
1950	Apr. 5, 1950	5.98	1,270
1951	Nov. 25, 1950	10.06	10,100
	Mar. 31, 1951	8.00	4,140
	Apr. 3, 1951	7.09	2,570
	July 19, 1951	6.42	1,710
1952	Nov. 3, 1951	6.44	1,730
	Nov. 6, 1951	6.24	1,520
	Apr. 5, 1952	7.58	3,350
	May 12, 1952	6.66	1,990

a Backwater from ice.
b Estimated.

Peak stages and discharges of West Branch Farmington River near New Boston, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	June 1, 1952	7.96	4,060	1956	Apr. 29, 1956	7.62	3,090
1953	Dec. 11, 1952	6.60	1,920	1957	Jan. 23, 1957	5.90	1,510
	Jan. 25, 1953	6.17	1,450		Jan. 23, 1957	a9.27	-
	Mar. 13, 1953	7.46	3,140				
	Mar. 16, 1953	7.47	3,160	1958	Dec. 21, 1957	6.76	2,360
	Mar. 24, 1953	7.52	3,240		Dec. 26, 1957	6.03	1,630
	Mar. 27, 1953	6.32	1,600		Apr. 6, 1958	6.32	1,890
					Apr. 17, 1958	5.97	1,570
1954	Mar. 3, 1954	6.17	1,450		Apr. 23, 1958	5.78	1,400
	Apr. 17, 1954	6.59	1,910		Apr. 29, 1958	5.97	1,570
	Sept.11, 1954	8.05	4,240				
				1959	Mar. 6, 1959	a10.43	-
1955	Nov. 3, 1954	6.30	1,580		Mar. 6, 1959	6.02	1,620
	Nov. 21, 1954	7.01	2,450		Apr. 2, 1959	6.84	2,440
	Dec. 18, 1954	6.30	1,580				
	Aug. 14, 1955	7.03	2,280	1960	Oct. 24, 1959	6.06	1,650
	Aug. 19, 1955	14.06	34,300		Jan. 3, 1960	6.48	2,050
	Aug. 21, 1955	7.13	2,400		Feb. 11, 1960	5.90	1,510
					Mar. 31, 1960	5.97	1,570
1956	Oct. 16, 1955	9.35	7,910		Apr. 5, 1960	7.42	3,340
	Oct. 30, 1955	7.21	2,490		Aug. 10, 1960	6.18	1,760
	Nov. 4, 1955	6.78	2,000		Sept.12, 1960	6.90	2,510
	Apr. 16, 1956	6.53	1,750		Sept.20, 1960	5.84	1,460

a Backwater from ice.

1865. Still River at Robertsville, Conn.

Location.--Lat 41°58'04", long 73°02'03", on left bank 1,500 ft downstream from Sandy Brook, 1 mile southeast of Robertsville, Litchfield County, 1 mile northwest of Riverton, and 1 mile upstream from mouth.

Drainage area.--84.4 sq mi.

Gage.--Recording. Datum of gage is 510.24 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,600 cfs and extended above on basis of slope-area measurement at 44,000 cfs.

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)
1949	Dec. 31, 1948	10.12	9,550	1955	Nov. 3, 1954	4.34	1,360
	Jan. 6, 1949	6.1	2,920		Nov. 21, 1954	4.53	1,500
					Dec. 18, 1954	4.45	1,420
1950	Mar. 9, 1950	5.34	-		Aug. 14, 1955	4.88	1,760
	Mar. 29, 1950	4.03	1,130		Aug. 19, 1955	16.48	44,000
1951	Nov. 25, 1950	7.17	4,250	1956	Oct. 16, 1955	10.02	9,270
	Feb. 7, 1951	4.29	1,320		Oct. 31, 1955	7.11	3,420
	Mar. 31, 1951	6.40	3,250		Nov. 5, 1955	6.93	3,200
	Apr. 3, 1951	5.20	2,040		Apr. 17, 1956	6.33	2,460
					Apr. 29, 1956	5.79	1,880
1952	Nov. 3, 1951	4.59	1,540		Apr. 30, 1956	6.25	2,360
	Nov. 7, 1951	4.42	1,390	1957	Jan. 23, 1957	5.24	1,390
	Jan. 27, 1952	4.30	1,320		Jan. 23, 1957	a5.56	-
	Apr. 5, 1952	5.84	2,660				
	May 12, 1952	4.73	1,660	1958	Dec. 21, 1957	6.46	2,580
	June 1, 1952	6.17	3,030		Dec. 26, 1957	5.57	1,640
					Apr. 7, 1958	6.50	2,640
1953	Dec. 11, 1952	5.05	1,900				
	Jan. 24, 1953	5.66	2,460	1959	Jan. 22, 1959	a7.25	-
	Mar. 13, 1953	5.86	2,660		Mar. 6, 1959	6.77	2,940
	Mar. 16, 1953	5.65	2,460		Mar. 21, 1959	5.15	1,310
	Mar. 24, 1953	5.73	2,550		Apr. 3, 1959	6.27	2,360
	Mar. 26, 1953	5.30	2,130				
	Mar. 27, 1953	5.18	2,040	1960	Oct. 24, 1959	5.50	1,600
	May 9, 1953	4.28	1,320		Jan. 3, 1960	5.75	1,830
					Feb. 11, 1960	5.87	1,930
1954	Mar. 3, 1954	4.31	1,320		Mar. 31, 1960	6.09	2,190
	Apr. 17, 1954	4.71	1,620		Apr. 5, 1960	7.10	3,410
	Sept.11, 1954	5.79	2,610		Sept.12, 1960	6.16	2,240

a Backwater from ice.

1870. West Branch Farmington River at Riverton, Conn.
(Published as Farmington River at Riverton prior to October 1948)

Location.--Lat 41°57'13", long 73°00'51", on right bank 0.4 mile downstream from Still River, 0.6 mile south of Riverton, Litchfield County, 8.2 miles upstream from East Branch, and at mile 51.3.

Drainage area.--Area, 216 sq mi. Area of lakes, reservoirs, and ponds, 4.89 sq mi. Length of main stream, 26.5 miles. Average slope above gage, 38.9 ft per mile.

Gage.--Recording. Datum of gage is 472.22 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs and extended above on basis of velocity-area study.

Historical data.--Flood of November 1927 reached a stage 0.2 ft lower than that of Mar. 18, 1936, at a point three-quarters of a mile upstream, based on comparative floodmarks.

Remarks.--Flow regulated by Otis Reservoir (usable capacity, 780 million cubic feet). Base for partial-duration series, 3,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 8, 1930	4.50	1,990	1943	Feb. 24, 1943	a6.70	-
					May 26, 1943	6.48	4,590
1931	May 23, 1931	5.59	3,130				
				1944	Nov. 9, 1943	7.31	5,900
1932	Apr. 1, 1932	6.87	5,040		Apr. 25, 1944	6.23	4,140
	Apr. 12, 1932	5.96	3,760		Sept.15, 1944	5.48	3,140
1933	Nov. 10, 1932	6.51	4,590	1945	Jan. 1, 1945	a6.82	-
	Nov. 19, 1932	9.20	9,720		Jan. 1, 1945	6.02	3,840
	Sept.16, 1933	6.55	4,750		Mar. 17, 1945	5.82	3,550
					Mar. 21, 1945	6.27	4,290
1934	Mar. 5, 1934	a8.20	-		Apr. 26, 1945	7.90	6,960
	Apr. 1, 1934	6.56	4,750		June 16, 1945	5.70	3,410
	Apr. 12, 1934	7.13	5,560		July 29, 1945	5.78	3,550
	Sept.17, 1934	7.52	6,180		Sept.15, 1945	5.53	3,200
1935	Nov. 6, 1934	5.60	3,270	1946	Jan. 7, 1946	a8.71	-
	Jan. 10, 1935	a7.72	-		Mar. 9, 1946	6.12	3,990
	Jan. 10, 1935	7.1	5,560				
				1947	Apr. 5, 1947	6.72	4,910
1936	Mar. 12, 1936	a10.83	-	1948	Nov. 12, 1947	6.16	4,140
	Mar. 12, 1936	9.85	11,000		Mar. 17, 1948	5.63	3,340
	Mar. 18, 1936	13.42	19,900		Mar. 22, 1948	8.34	7,710
	Mar. 21, 1936	6.15	4,060				
	Apr. 6, 1936	6.26	4,290	1949	Dec. 31, 1948	13.95	22,000
1937	Dec. 12, 1936	a6.00	-		Jan. 6, 1949	7.92	7,000
	Dec. 20, 1936	5.79	3,550				
	Feb. 22, 1937	6.85	5,230	1950	Mar. 9, 1950	a5.81	-
	Apr. 6, 1937	5.52	3,140		Apr. 5, 1950	4.99	2,530
	May 15, 1937	8.14	7,330				
				1951	Nov. 26, 1950	12.37	17,400
1938	Oct. 20, 1937	7.53	6,240		Mar. 31, 1951	8.59	8,290
	Nov. 14, 1937	6.36	4,440		Apr. 3, 1951	6.83	5,070
	Nov. 29, 1937	5.80	3,550				
	Jan. 25, 1938	a9.96	-	1952	Nov. 3, 1951	5.92	3,730
	Jan. 25, 1938	9.52	10,200		Nov. 7, 1951	5.85	3,600
	June 28, 1938	6.97	5,390		Dec. 21, 1951	a6.63	-
	Sept.21, 1938	17.95	37,100		Apr. 2, 1952	5.48	3,150
					Apr. 5, 1952	7.64	6,420
1939	Dec. 6, 1938	6.79	5,070		May 12, 1952	6.23	4,140
	Apr. 19, 1939	6.07	3,990		June 1, 1952	7.99	7,140
1940	Mar. 31, 1940	5.75	3,480	1953	Dec. 11, 1952	6.20	4,140
	Apr. 9, 1940	7.47	6,240		Jan. 24, 1953	6.67	4,910
	Apr. 12, 1940	6.98	5,390		Mar. 13, 1953	7.76	6,780
	May 31, 1940	5.55	3,200		Mar. 16, 1953	7.47	6,240
					Mar. 24, 1953	7.73	6,600
1941	Feb. 8, 1941	a9.82	-				
	Feb. 8, 1941	-	4,500	1954	Mar. 3, 1954	5.60	3,280
					Apr. 18, 1954	6.30	4,290
1942	Mar. 9, 1942	a8.86	-		Sept.11, 1954	7.88	6,960
	Mar. 9, 1942	8.23	7,520				
	Mar. 22, 1942	7.16	5,730	1955	Nov. 3, 1954	5.65	3,280
	May 17, 1942	6.03	3,840		Nov. 21, 1954	6.25	4,140
					Dec. 18, 1954	5.88	3,700
1943	Nov. 25, 1942	6.56	4,750		Aug. 19, 1955	20.3	101,000
	Dec. 30, 1942	a7.44	-				

a Backwater from ice.

1880. Burlington Brook near Burlington, Conn.

Location.--Lat 41°47'10", long 72°57'55", on left bank in rock gorge, 1¼ miles north of Burlington, Hartford County, 3 miles upstream from mouth, and 3 miles southwest of Collinsville.

Drainage area.--Area, 4.12 sq mi. Area of lakes, reservoirs, and ponds, 0.01 sq mi. Length of main stream, 3.45 miles. Average slope above gage, 87.7 ft per mile.

Gage.--Recording. Datum of gage is 714.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above on basis of shape of theoretical rating computed for sharp-edged square orifice and rectangular weir.

Remarks.--Flood records not affected by regulation. Base for partial-duration series, 140 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Apr. 1, 1932	2.72	101	1946	July 23, 1946	5.45	376
1933	Oct. 18, 1932	3.40	159	1947	Mar. 14, 1947	3.87	205
	Nov. 10, 1932	5.61	395				
	Nov. 19, 1932	3.95	213	1948	Nov. 8, 1947	3.30	150
1934	Apr. 1, 1934	3.48	166		Nov. 12, 1947	4.38	256
	Apr. 12, 1934	3.49	167	1949	Dec. 31, 1948	6.87	591
	Sept. 9, 1934	5.93	434		Jan. 6, 1949	4.87	310
	Sept.17, 1934	5.54	387				
				1950	June 4, 1950	3.09	131
1935	Jan. 10, 1935	5.2	346				
				1951	Nov. 26, 1950	4.17	226
1936	Mar. 12, 1936	6.58	533		Feb. 7, 1951	3.57	175
	Mar. 18, 1936	5.20	346		Mar. 31, 1951	4.66	287
	Apr. 6, 1936	3.18	140				
				1952	Apr. 5, 1952	3.25	146
1937	Dec. 20, 1936	3.98	216		June 1, 1952	3.73	191
	Feb. 22, 1937	4.67	288		Aug. 17, 1952	3.37	156
	May 15, 1937	3.56	174				
	Aug. 27, 1937	3.20	141	1953	Nov. 22, 1952	3.92	210
					Dec. 11, 1952	3.50	168
1938	Nov. 13, 1937	3.56	174		Jan. 24, 1953	5.27	354
	Nov. 29, 1937	3.28	148		Mar. 13, 1953	5.08	333
	Jan. 25, 1938	6.42	505		Mar. 16, 1953	3.70	188
	July 21, 1938	5.54	387		Mar. 26, 1953	3.45	164
	Sept.21, 1938	7.24	676				
				1954	Sept.11, 1954	3.65	183
1939	Dec. 6, 1938	3.56	174				
	Apr. 2, 1939	3.40	159	1955	Dec. 14, 1954	3.78	196
	Aug. 21, 1939	4.32	243		Aug. 19, 1955	9.22	1,690
1940	Mar. 31, 1940	3.25	146	1956	Oct. 16, 1955	6.24	475
	Apr. 8, 1940	4.72	293		Oct. 31, 1955	5.42	372
					Nov. 5, 1955	3.81	199
1941	Feb. 8, 1941	3.71	189				
				1957	Jan. 23, 1957	2.47	80
1942	Mar. 9, 1942	4.49	268				
	Mar. 22, 1942	3.65	183	1958	Apr. 6, 1958	3.91	209
1943	Dec. 30, 1942	3.23	144	1959	Mar. 6, 1959	5.27	354
					Apr. 3, 1959	3.40	159
1944	Mar. 7, 1944	3.50	168				
	Sept.15, 1944	4.24	242	1960	Oct. 24, 1959	4.00	218
					Jan. 3, 1960	3.67	185
1945	Jan. 1, 1945	4.30	248		Mar. 31, 1960	4.17	235
	Apr. 26, 1945	6.0	440		June 4, 1960	4.25	243
	June 22, 1945	4.01	219		Sept.12, 1960	4.81	303

1890. Pequabuck River at Forestville, Conn.

Location.--Lat 41°40'23", long 72°54'04", on left bank 700 ft upstream from station of New York, New Haven and Hartford Railroad at Forestville, Hartford County, a quarter of a mile downstream from Coppermine Brook, and 6½ miles upstream from mouth.

Drainage area.--Area, 45.2 sq mi. Area of lakes, reservoirs, and ponds, 0.56 sq mi. Length of main stream, 13.4 miles. Average slope above gage, 61.2 ft per mile.

Gage.--Recording. Datum of gage is 197.72 ft above mean sea level, datum of 1929 (levels by Connecticut State Water Commission).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above on basis of slope-area and flow-over-dam measurements at 3,800 and 11,700 cfs.

Remarks.--Flood records not affected by regulation. Base for partial-duration series, 660 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	September 1938	7.3	3,800
1942	Mar. 3, 1942	4.06	1,340
	Mar. 9, 1942	3.73	1,120
	Mar. 22, 1942	3.05	765
1943	Dec. 30, 1942	3.79	1,190
	Mar. 16, 1943	2.87	676
1944	Mar. 7, 1944	3.23	865
	Apr. 24, 1944	2.97	725
	May 27, 1944	3.71	1,090
	July 11, 1944	2.93	705
	Sept.14, 1944	3.97	1,280
1945	Jan. 1, 1945	3.92	1,210
	Apr. 26, 1945	5.05	1,980
	May 18, 1945	3.1	790
	July 18, 1945	3.52	980
1946	May 27, 1946	3.02	730
	July 23, 1946	2.93	698
1947	Mar. 14, 1947	3.02	730
	July 28, 1947	3.13	805
1948	Nov. 8, 1947	3.40	940
	Nov. 12, 1947	3.72	1,090
	Mar. 16, 1948	2.94	710
	Mar. 20, 1948	3.32	890
	Apr. 1, 1948	2.93	705
	July 6, 1948	3.01	745
1949	Dec. 31, 1948	6.70	3,260
	Jan. 6, 1949	4.7	1,690
	July 20, 1949	4.17	1,350
1950	Mar. 9, 1950	3.4	920
	July 10, 1950	3.65	1,060
1951	Nov. 25, 1950	3.26	840
	Feb. 7, 1951	5.1	1,970
	Feb. 18, 1951	3.5	975
	Feb. 22, 1951	3.01	715
	Mar. 31, 1951	4.20	1,380
	Apr. 3, 1951	2.98	705
	Aug. 21, 1951	3.36	892
1952	Nov. 7, 1951	3.47	948
	Dec. 21, 1951	3.7	1,080
	Mar. 11, 1952	3.59	1,030
	Apr. 5, 1952	3.6	1,030
	June 1, 1952	3.85	1,170
	July 10, 1952	2.95	690
1952	Aug. 5, 1952	2.92	675
	Aug. 17, 1952	2.94	685
1953	Nov. 22, 1952	4.3	1,440
	Dec. 11, 1952	4.2	1,380
	Jan. 24, 1953	5.6	2,340
	Mar. 13, 1953	4.65	1,660
	Mar. 16, 1953	4.23	1,410
	Mar. 26, 1953	3.46	948
	Mar. 30, 1953	3.22	815
	Apr. 14, 1953	3.19	815
1954	Apr. 17, 1954	2.90	735
	Aug. 3, 1954	3.90	1,210
	Sept. 7, 1954	2.75	672
	Sept.11, 1954	3.33	928
1955	Oct. 15, 1954	2.80	695
	Nov. 3, 1954	2.90	735
	Dec. 14, 1954	3.73	1,120
	Feb. 7, 1955	2.75	672
	Aug. 19, 1955	13.22	11,700
1956	Oct. 16, 1955	7.67	4,170
	Oct. 30, 1955	5.2	2,040
	Nov. 5, 1955	5.8	2,500
	Apr. 5, 1956	2.87	665
1957	Apr. 6, 1957	2.68	614
1958	Dec. 21, 1957	2.93	738
	Dec. 26, 1957	2.91	730
	Feb. 28, 1958	3.45	958
	Apr. 6, 1958	3.16	835
	May 19, 1958	2.97	756
	May 25, 1958	3.24	895
	July 5, 1958	2.83	730
	July 11, 1958	4.11	1,380
1959	Nov. 29, 1958	3.03	792
	Jan. 22, 1959	2.86	705
	Mar. 6, 1959	5.27	2,110
	Apr. 3, 1959	3.35	915
	Sept. 3, 1959	3.75	1,110
1960	Oct. 6, 1959	3.03	792
	Oct. 24, 1959	3.52	980
	Jan. 3, 1960	4.17	1,400
	Feb. 11, 1960	3.06	855
	July 30, 1960	3.37	1,000
	Aug. 30, 1960	3.23	955
	Sept.12, 1960	5.53	2,260
	Sept.20, 1960	3.01	830

1895. Salmon Brook near Granby, Conn.

Location.--Lat 41°56'14", long 72°46'36", on left bank 50 ft upstream from New York, New Haven and Hartford Railroad bridge, 0.5 mile downstream from confluence of East Branch and West Branch, 1.2 miles southeast of Granby, Hartford County, and 1.9 miles upstream from mouth.

Drainage area.--66.8 sq mi.

Gage.--Recording. Datum of gage is 147.54 ft above mean sea level, datum of 1929.

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

Remarks.--Flood records not affected by regulation. 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)
1947	Mar. 14, 1947	7.8	1,340	1953	Apr. 8, 1953	7.50	1,260
	Apr. 6, 1947	6.85	1,040		Apr. 14, 1953	7.11	1,140
1948	Nov. 12, 1947	9.39	1,860	1954	Apr. 18, 1954	6.69	1,040
	Mar. 20, 1948	8.07	1,430		May 21, 1954	6.55	1,010
	Mar. 22, 1948	8.43	1,520		Sept.11, 1954	7.52	1,260
1949	Dec. 31, 1948	13.55	3,440	1955	Dec. 15, 1954	9.26	1,820
	Jan. 6, 1949	10.05	2,070		Dec. 18, 1954	6.95	1,120
					Aug. 19, 1955	a23.58	40,000
1950	Mar. 29, 1950	5.45	710	1956	Oct. 16, 1955	12.18	10,800
1951	Nov. 26, 1950	7.03	1,120		Oct. 31, 1955	9.46	4,020
	Dec. 8, 1950	6.58	1,010		Nov. 5, 1955	9.15	3,540
	Jan. 24, 1951	6.56	1,010		Apr. 5, 1956	6.48	1,200
	Feb. 7, 1951	9.74	1,960		Apr. 16, 1956	6.31	1,100
	Feb. 22, 1951	7.35	1,240				
	Mar. 31, 1951	11.93	2,760	1957	Jan. 23, 1957	5.49	780
	Apr. 3, 1951	8.61	1,600				
				1958	Apr. 7, 1958	7.85	2,070
1952	Nov. 7, 1951	6.98	1,120				
	Mar. 11, 1952	8.98	1,720	1959	Jan. 22, 1959	6.00	1,080
	Apr. 6, 1952	9.56	1,930		Mar. 6, 1959	9.47	4,080
	June 1, 1952	10.80	2,350		Apr. 3, 1959	8.20	2,390
1953	Nov. 22, 1952	7.71	1,320	1960	Feb. 11, 1960	7.84	1,910
	Dec. 12, 1952	8.44	1,540		Mar. 31, 1960	8.00	2,030
	Jan. 24, 1953	10.55	2,280		Apr. 5, 1960	7.60	1,730
	Mar. 13, 1953	11.23	2,490		June 4, 1960	7.19	1,480
	Mar. 16, 1953	9.42	1,860		July 30, 1960	6.26	1,020
	Mar. 26, 1953	8.92	1,680		Sept.15, 1960	8.90	3,180
	Mar. 30, 1953	8.17	1,480				

a Occurred at different time than peak discharge.

1900. Farmington River at Rainbow, Conn.

Location.--Lat 41°54'41", long 72°41'16", on left bank at Rainbow, Hartford County, 300 ft from Stevens Paper Mill, 0.4 mile downstream from dam of Farmington River Power Co., 1.3 miles upstream from Poquonock, 6.4 miles downstream from Salmon Brook, and 8 miles upstream from mouth.

Drainage area.--591 sq mi. Prior to October 1939, 578 sq mi.

Gage.--Recording. Datum of gage is 35.36 ft above mean sea level, datum of 1929. At site 5½ miles upstream at datum 94.85 ft higher prior to July 1, 1939.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and by flow-over-dam measurements at 25,500 cfs (furnished by Farmington River Power Co.) and 69,200 cfs.

Remarks.--Flood records affected by regulation by Farmington River Power Co. to a considerable degree. Flow regulated by powerplants, and by Otis, Barkhamsted, East Branch, Nepaug, and Whigville Reservoirs (combined total capacity, 6,720,000,000 cu ft). Only annual floods are listed and adjusted for local regulation by Farmington River Power Co. if necessary. Base for partial-duration series, 4,000 cfs. Only annual peaks are shown after 1939.

Peak stages and discharges of Farmington River at Rainbow, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 28, 1913	-	8,100
1914	Mar. 3, 1914	-	5,500
	Mar. 29, 1914	-	9,300
	Apr. 10, 1914	-	5,300
	May 6, 1914	-	4,400
1915	Jan. 19, 1915	-	7,700
	Feb. 16, 1915	-	4,400
	Feb. 26, 1915	-	13,500
	Apr. 12, 1915	-	4,100
	Aug. 5, 1915	-	6,200
1916	Dec. 27, 1915	-	5,700
	Jan. 28, 1916	-	4,600
	Feb. 27, 1916	-	5,200
	Apr. 2, 1916	-	6,700
1917	Mar. 28, 1917	-	7,100
1918	Oct. 31, 1917	-	4,900
	Feb. 21, 1918	-	4,600
1919	Mar. 2, 1919	-	5,000
	Mar. 10, 1919	-	4,100
	Mar. 29, 1919	-	6,700
	May 23, 1919	-	10,500
1920	Mar. 18, 1920	-	5,300
	Mar. 28, 1920	-	6,900
	Apr. 14, 1920	-	6,900
	June 18, 1920	-	4,800
1921	Oct. 1, 1920	-	5,500
	Nov. 24, 1920	-	4,800
	Dec. 6, 1920	-	6,000
	Dec. 15, 1920	-	7,200
	Mar. 10, 1921	-	5,600
1922	Mar. 8, 1922	-	5,100
	Apr. 9, 1922	-	4,100
	May 6, 1922	-	5,500
	May 20, 1922	-	5,200
1923	Mar. 24, 1923	-	6,300
	Apr. 6, 1923	-	7,400
	Apr. 29, 1923	-	5,100
1924	Oct. 24, 1923	-	4,800
	Jan. 12, 1924	-	6,300
	Apr. 8, 1924	-	21,000
	Apr. 19, 1924	-	5,100
	May 13, 1924	-	5,000
1925	Feb. 12, 1925	-	6,900
	Mar. 2, 1925	-	4,600
1926	Apr. 11, 1926	-	4,200
	Apr. 26, 1926	-	3,800
1927	Mar. 15, 1927	-	4,200
	May 25, 1927	-	4,300
1928	Oct. 13, 1927	-	4,000
	Nov. 5, 1927	-	24,500
	Nov. 18, 1927	-	5,300
	Dec. 8, 1927	-	5,100
	Jan. 25, 1928	-	4,300
	Aug. 27, 1928	7.30	7,220
1929	Feb. 7, 1929	5.67	4,050
	Mar. 6, 1929	6.44	5,100
	Mar. 17, 1929	6.25	5,100
1929	Apr. 18, 1929	6.17	5,260
	Apr. 22, 1929	7.30	7,220
1930	Dec. 22, 1929	a6.15	-
	Mar. 9, 1930	4.76	3,250
1931	Mar. 30, 1931	6.20	4,480
	Apr. 3, 1931	6.36	4,780
	May 24, 1931	6.01	4,780
	June 11, 1931	6.60	5,640
1932	Apr. 2, 1932	6.43	4,780
	Apr. 13, 1932	6.25	4,940
1933	Nov. 21, 1932	7.77	7,610
	Apr. 5, 1933	6.35	5,000
	Apr. 15, 1933	5.94	4,120
	Apr. 19, 1933	6.21	4,840
1934	Mar. 6, 1934	6.2	4,400
	Apr. 2, 1934	6.92	5,870
	Apr. 13, 1934	7.68	7,390
	Sept.17, 1934	7.38	6,610
1935	Jan. 11, 1935	7.39	6,800
1936	Mar. 13, 1936	a11.64	-
	Mar. 13, 1936	10.8	14,900
	Mar. 19, 1936	13.40	26,900
	Apr. 7, 1936	6.71	5,510
1937	Dec. 21, 1936	6.16	4,520
	Jan. 26, 1937	5.95	4,360
	Feb. 23, 1937	6.30	4,840
	May 16, 1937	7.53	6,990
1938	Oct. 21, 1937	5.87	4,210
	Nov. 14, 1937	6.69	5,440
	Nov. 29, 1937	6.56	5,340
	Jan. 26, 1938	9.62	11,900
	June 28, 1938	6.35	5,020
	July 22, 1938	6.98	6,020
	Sept.22, 1938	14.0	29,900
1939	Dec. 7, 1938	7.10	6,190
	Apr. 3, 1939	6.40	5,100
	Apr. 20, 1939	6.08	4,630
1940	Apr. 10, 1940	7.33	10,200
1941	Feb. 9, 1941	5.36	5,860
1942	Mar. 10, 1942	6.47	8,280
1943	Dec. 31, 1942	5.86	6,940
1944	Apr. 26, 1944	5.23	5,460
1945	Mar. 18, 1945	6.74	8,760
1946	Mar. 10, 1946	6.14	7,380
1947	Apr. 7, 1947	5.26	5,420
1948	Mar. 23, 1948	9.35	14,500
1949	Jan. 1, 1949	13.83	26,500
1950	Mar. 29, 1950	5.03	4,870
1951	Apr. 1, 1951	7.52	9,900
1952	June 3, 1952	7.68	10,300
1953	Mar. 27, 1953	7.40	9,680
1954	Sept.12, 1954	5.10	5,050
1955	Aug. 19, 1955	23.5	69,200
1956	Oct. 16, 1955	16.35	34,700
1957	Apr. 7, 1957	5.34	4,500
1958	Apr. 8, 1958	6.44	6,410
1959	Apr. 4, 1959	6.88	7,380
1960	Apr. 6, 1960	8.42	10,700

a Backwater from ice.

1905. South Branch Park River at Hartford, Conn.

Location.--Lat 41°44'02", long 72°42'51", on left bank at upstream side of bridge on Newfield Avenue in Hartford, Hartford County, 0.7 mile downstream from confluence of Trout Brook and Piper Brook and 3.3 miles upstream from confluence with North Branch.

Drainage area.--Area, 40.6 sq mi. Area of lakes, reservoirs, and ponds, 0.57 sq mi. Length of main stream, 11.7 miles. Average slope above gage, 33.3 ft per mile.

Gage.--Recording. Datum of gage is 31.07 ft above mean sea level, datum of 1929 (levels by Department of Engineering, city of Hartford).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above by comparison with flow of North Branch Park River. Stage-discharge relation affected by rate of change in stage.

Historical data.--Flood of Mar. 12, 1936, reached a stage of 12.1 ft, as determined by city engineers of Hartford from floodmarks (discharge, 2,500 cfs, from rating curve after adjusting observed stage to equivalent stage for recording conditions).

Remarks.--Flood records not affected by regulation. All stages are recorded stages, but above 11.5 ft, intake drawdown is eliminated when water has access to well through door opening. Stage-discharge relation affected by rate of change in stage; therefore maximum stages and discharges listed do not correspond in time. 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)
1936	Mar. 12, 1936	12.1	-	1951	Apr. 3, 1951	7.81	680
1937	Dec. 20, 1936	7.12	650	1952	Nov. 7, 1951	8.14	810
					Dec. 21, 1951	8.18	775
1938	Nov. 14, 1937	6.97	705		Jan. 23, 1952	7.70	700
	Nov. 29, 1937	9.66	1,680		Mar. 11, 1952	8.62	990
	Jan. 25, 1938	12.65	2,860		Apr. 5, 1952	7.64	670
	July 24, 1938	7.85	800		June 1, 1952	9.48	1,380
	Sept.21, 1938	13.78	3,600				
				1953	Nov. 22, 1952	8.94	1,130
1939	Dec. 6, 1938	7.85	950		Jan. 24, 1953	10.70	2,290
	Jan. 6, 1939	6.87	695		Mar. 13, 1953	10.30	2,010
	Feb. 15, 1939	a7.87	-		Mar. 16, 1953	9.82	1,620
	Feb. 16, 1939	-	830		Mar. 30, 1953	7.84	670
	Feb. 27, 1939	7.20	770		Apr. 14, 1953	8.2	790
	Mar. 1, 1939	6.95	690				
	Apr. 2, 1939	6.93	680	1954	Aug. 3, 1954	7.82	740
					Sept.11, 1954	10.40	1,490
1940	Jan. 15, 1940	10.76	2,430				
	Mar. 15, 1940	8.45	1,230	1955	Dec. 15, 1954	9.18	1,060
	Mar. 31, 1940	6.93	670		Mar. 22, 1955	7.90	715
	Apr. 9, 1940	8.06	1,070		Aug. 19, 1955	19.65	5,000
	May 31, 1940	9.64	1,750				
				1956	Oct. 16, 1955	15.6	2,800
1941	Feb. 8, 1941	10.66	2,330		Oct. 31, 1955	8.48	878
					Nov. 5, 1955	9.20	1,060
1942	Mar. 9, 1942	7.85	800		June 3, 1956	7.07	690
1943	Nov. 25, 1942	7.50	750	1957	Apr. 6, 1957	7.76	678
	Dec. 31, 1942	9.78	1,800				
				1958	Dec. 10, 1957	7.45	665
1944	Apr. 25, 1944	7.40	720		Dec. 21, 1957	7.50	715
	Sept.15, 1944	8.52	1,250		Dec. 26, 1957	7.78	702
					Jan. 22, 1958	7.73	790
1945	Nov. 30, 1944	7.93	870		Feb. 28, 1958	7.90	740
	Jan. 2, 1945	a8.22	-		Apr. 6, 1958	8.23	840
	Jan. 2, 1945	-	890		May 25, 1958	6.95	715
	Apr. 26, 1945	7.58	750		July 11, 1958	7.64	790
					Sept.17, 1958	7.15	665
1946	May 28, 1946	7.75	795				
				1959	Nov. 29, 1958	9.23	1,060
1947	Apr. 6, 1947	7.13	615		Jan. 21, 1959	7.65	702
					Mar. 6, 1959	11.94	1,790
1948	Nov. 9, 1947	6.99	650		Apr. 3, 1959	8.86	1,070
	Nov. 12, 1947	8.45	1,110				
	Mar. 16, 1948	7.72	805	1960	Oct. 24, 1959	12.02	2,100
					Dec. 7, 1959	7.62	715
1949	Dec. 31, 1948	8.75	1,190		Dec. 13, 1959	7.52	665
	Jan. 6, 1949	7.90	695		Jan. 3, 1960	9.94	1,300
					Feb. 11, 1960	8.70	965
1950	Mar. 9, 1950	7.50	625		Mar. 31, 1960	7.78	702
1951	Feb.7-8, 1951	9.36	1,300		July 30, 1960	8.50	965
	Mar. 31, 1951	9.84	1,600		Sept.12, 1960	13.60	2,720

a Backwater from ice.

1910. North Branch Park River at Hartford, Conn.

Location.--Lat 41°47'03", long 72°42'31", on right bank 60 ft downstream from stone-arch bridge on Albany Avenue, Hartford, Hartford County, and 3 miles upstream from confluence with South Branch.

Drainage area.--Area, 25.3 sq mi. Area of lakes, reservoirs, and ponds, 0.28 sq mi. Length of main stream, 8.3 miles. Average slope above gage, 14.9 ft per mile.

Gage.--Recording. Datum of gage is 34.20 ft above mean sea level, datum of 1929 (levels by Department of Engineering, city of Hartford).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above by logarithmic plotting. Stage-discharge relation affected by rate of change in stage.

Historical data.--Flood of Mar. 12, 1936, reached a stage of 11.2 ft as determined from floodmarks by city engineers of Hartford (discharge, 2,800 cfs).

Remarks.--Flood records not affected by regulation. All stages are recorded stages, but above 11.0 ft, intake drawdown is eliminated when water has access to well through door opening. Stage-discharge relation affected by rate of change in stage; therefore maximum stages and discharges listed do not correspond in time. 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)
1936	Mar. 12, 1936	11.2	2,800	1945	Jan. 1, 1945	a7.59	-
					Jan. 1, 1945	-	1,010
1937	Dec. 10, 1936	4.73	555		Feb. 27, 1945	a6.04	-
	Dec. 20, 1936	6.25	900		Mar. 4, 1945	a6.19	-
					Apr. 26, 1945	8.16	1,500
1938	Nov. 14, 1937	5.47	680				
	Nov. 29, 1937	7.80	1,310	1946	Dec. 7, 1945	5.82	755
	Jan. 25, 1938	11.81	3,000		Dec. 26, 1945	5.78	735
	July 20, 1938	5.52	755		Feb. 14, 1946	a5.91	-
	July 22, 1938	5.45	680		Feb. 14, 1946	-	605
	Sept.21, 1938	10.07	2,170		May 28, 1946	5.38	650
1939	Dec. 6, 1938	7.20	1,100	1947	Apr. 5, 1947	4.65	545
	Jan. 6, 1939	5.89	775				
	Feb. 15, 1939	a7.6	-	1948	Nov. 9, 1947	4.73	560
	Feb. 15, 1939	-	1,010		Nov. 12, 1947	7.33	1,160
	Feb. 26, 1939	a5.93	-		Mar. 16, 1948	6.52	925
	Feb. 26, 1939	-	600		Mar. 20, 1948	5.21	635
	Feb. 28, 1939	a5.42	-		Apr. 1, 1948	4.45	515
	Feb. 28, 1939	-	560				
	Apr. 2, 1939	5.30	650	1949	Dec. 31, 1948	6.89	1,010
	Apr. 7, 1939	4.92	590		Jan. 6, 1949	6.01	800
1940	Jan. 15, 1940	a10.26	-	1950	Mar. 9, 1950	a7.58	-
	Jan. 15, 1940	-	1,040		Mar. 9, 1950	-	900
	Mar. 15, 1940	a7.62	-		Mar. 23, 1950	4.42	500
	Mar. 15, 1940	-	900				
	Mar. 31, 1940	5.53	680	1951	Nov. 26, 1950	4.79	575
	Apr. 9, 1940	6.74	1,040		Feb. 7, 1951	8.14	1,620
	Apr. 13, 1940	4.45	510		Feb. 18, 1951	6.30	825
	May 31, 1940	8.17	1,460		Feb. 22, 1951	5.04	605
					Mar. 31, 1951	8.80	1,760
1941	Feb. 8, 1941	a8.98	-		Apr. 3, 1951	5.56	770
	Feb. 8, 1941	-	950				
				1952	Nov. 3, 1951	4.92	640
1942	Jan. 20, 1942	a5.36	-		Nov. 7, 1951	6.02	870
	Feb. 1, 1942	a6.05	-		Dec. 21, 1951	5.78	810
	Feb. 1, 1942	-	650		Jan. 18, 1952	4.45	540
	Feb. 17, 1942	a5.93	-		Jan. 23, 1952	4.68	600
	Feb. 17, 1942	-	515		Jan. 26, 1952	4.92	660
	Mar. 9, 1942	6.03	850		Mar. 11, 1952	7.55	1,260
	Mar. 22, 1942	5.81	775		Apr. 5, 1952	6.39	965
					Apr. 29, 1952	4.28	500
1943	Nov. 25, 1942	6.56	925		June 1, 1952	6.12	870
	Dec. 2, 1942	5.79	755				
	Dec. 30, 1942	8.14	1,380	1953	Nov. 22, 1952	6.52	990
	Mar. 16, 1943	4.54	545		Dec. 6, 1952	4.74	580
					Dec. 12, 1952	5.49	750
1944	Apr. 25, 1944	4.74	560		Jan. 24, 1953	8.50	1,640
					Feb. 16, 1953	4.74	580
1945	Nov. 30, 1944	6.05	800				

a Backwater from ice.

Peak stages and discharges of North Branch Park River at Hartford, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 13, 1953	8.30	1,560	1958	Dec. 21, 1957	4.78	600
	Mar. 16, 1953	7.29	1,200		Dec. 26, 1957	4.45	540
	Mar. 30, 1953	5.33	720		Apr. 6, 1958	5.85	815
	Apr. 8, 1953	4.52	540				
	Apr. 14, 1953	6.14	870	1959	Nov. 29, 1958	6.47	960
					Jan. 22, 1959	-	800
1954	Dec. 14, 1953	4.73	594		Mar. 6, 1959	7.67	1,320
	Apr. 18, 1954	5.15	676		Apr. 3, 1959	6.40	930
	Sept.11, 1954	6.14	872				
				1960	Oct. 24, 1959	8.64	1,720
1955	Dec. 15, 1954	5.64	766		Dec. 7, 1959	4.29	500
	Dec. 18, 1954	4.39	524		Dec. 13, 1959	4.32	510
	Mar. 22, 1955	5.64	774		Jan. 3, 1960	7.75	1,320
	Aug. 19, 1955	18.8	10,000		Feb. 11, 1960	7.11	1,100
					Mar. 31, 1960	5.22	680
1956	Oct. 16, 1955	12.40	3,680		Apr. 5, 1960	4.96	640
	Oct. 31, 1955	6.67	996		June 4, 1960	8.01	1,440
	Nov. 5, 1955	7.02	1,110		July 30, 1960	4.35	520
	Apr. 5, 1956	5.24	700		Sept.12, 1960	9.20	1,880
					Sept.20, 1960	4.44	530
1957	Jan. 23, 1957	a6.06	-				
	Apr. 6, 1957	5.10	660				

a Backwater from ice.
Note.--Peak gage height often occurs at different time than peak discharge.

1915. Park River at Hartford, Conn.

Location.--Lat 41°45'36", long 72°41'42", on left bank on downstream side of plate-girder footbridge on Riverside Street in Hartford, Hartford County, 1,300 ft downstream from confluence of North and South Branches, 1,300 ft upstream from Capital Avenue Bridge, 0.9 mile upstream from inlet of Park River conduit, and 2.0 miles upstream from mouth.

Drainage area.--Area, 74.0 sq mi. Area of lakes, reservoirs, and ponds, 0.88 sq mi. Length of main stream, 14.5 miles. Average slope above gage, 27.0 ft per mile.

Gage.--Recording. Datum of gage is 27.13 ft above mean sea level, datum of 1929 (levels by Department of Engineering, city of Hartford).

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs and extended above by logarithmic plotting.

Historical data.--Flood of Mar. 12, 1936, reached a stage of 9.0 ft as determined from floodmarks by city engineers of Hartford (discharge, 5,400 cfs). A stage of 10.7 ft, from floodmarks, occurred Mar. 21, 1936 (backwater from Connecticut River).

Remarks.--Flood records not affected by regulation. 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)
1937	Dec. 11, 1936	4.66	1,080	1940	Mar. 31, 1940	4.97	1,300
	Dec. 20, 1936	5.35	1,620		Apr. 9, 1940	5.78	1,950
					Apr. 13, 1940	4.66	1,080
1938	Nov. 14, 1937	4.86	1,230		May 31, 1940	6.80	2,770
	Nov. 29, 1937	6.81	2,880				
	Jan. 25, 1938	9.16	5,650	1941	Feb. 8, 1941	7.20	2,960
	July 24, 1938	4.99	1,320				
	Sept.21, 1938	8.93	5,320	1942	Feb. 1, 1942	4.85	1,200
					Mar. 9, 1942	5.57	1,680
1939	Dec. 6, 1938	5.95	1,830		Mar. 22, 1942	5.10	1,360
	Jan. 6, 1939	4.89	1,130				
	Feb. 16, 1939	5.75	1,680	1943	Nov. 26, 1942	5.48	1,640
	Feb. 27, 1939	5.12	1,250		Dec. 2, 1942	5.21	1,430
	Mar. 1, 1939	5.00	1,190		Dec. 31, 1942	6.84	2,630
	Apr. 2, 1939	5.06	1,220		Mar. 17, 1943	4.72	1,110
	Apr. 7, 1939	4.77	1,040				
				1944	Apr. 25, 1944	5.05	1,220
1940	Jan. 15, 1940	7.57	3,490		Sept.15, 1944	5.03	1,220
	Mar. 15, 1940	5.92	2,030				

Peak stages and discharges of Park River at Hartford, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Nov. 30, 1944	5.55	1,560	1953	Jan. 25, 1953	7.27	2,990
	Jan. 2, 1945	5.94	1,770		Feb. 16, 1953	4.75	1,060
	Mar. 4, 1945	4.75	1,040		Mar. 13, 1953	7.08	2,810
	Apr. 26, 1945	6.14	1,910		Mar. 16, 1953	6.65	2,380
					Mar. 30, 1953	5.36	1,420
1946	Dec. 7, 1945	4.97	1,160		Apr. 8, 1953	4.73	1,060
	Dec. 27, 1945	4.99	1,190		Apr. 14, 1953	5.72	1,670
	May 28, 1946	5.26	1,420				
				1954	Dec. 14, 1953	4.82	1,080
1947	Apr. 6, 1947	4.72	1,060		Apr. 18, 1954	4.88	1,140
					Sept.11, 1954	6.10	1,980
1948	Nov. 12, 1947	5.89	1,870				
	Mar. 17, 1948	5.29	1,450	1955	Dec. 15, 1954	5.69	1,670
	Mar. 20, 1948	4.83	1,150		Dec. 19, 1954	4.70	1,030
	Apr. 1, 1948	4.69	1,060		Mar. 23, 1955	5.39	1,460
					Aug. 19, 1955	16.36	14,000
1949	Dec. 31, 1948	6.22	2,100				
	Jan. 6, 1949	5.36	1,490	1956	Oct. 16, 1955	10.6	6,420
					Oct. 31, 1955	5.64	1,640
1950	Mar. 9, 1950	5.35	1,400		Nov. 5, 1955	6.06	1,940
	Mar. 23, 1950	4.65	1,030				
				1957	Apr. 6, 1957	4.94	1,170
1951	Nov. 26, 1950	4.75	1,040				
	Feb. 7, 1951	6.4	2,240	1958	Dec. 21, 1957	4.75	1,060
	Feb. 18, 1951	5.03	1,280		Dec. 27, 1957	4.77	1,060
	Feb. 22, 1951	5.03	1,280		Jan. 22, 1958	4.64	1,000
	Mar. 20, 1951	4.94	1,210		Mar. 28, 1958	4.82	1,080
	Mar. 31, 1951	7.17	2,880		Apr. 7, 1958	5.39	1,460
	Apr. 3, 1951	5.42	1,520				
				1959	Mar. 6, 1959	6.62	2,530
1952	Nov. 3, 1951	4.84	1,150				
	Nov. 7, 1951	5.45	1,460	1960	Oct. 24, 1959	7.07	2,980
	Dec. 21, 1951	5.36	1,400		Dec. 7, 1959	4.57	1,040
	Jan. 23, 1952	4.92	1,130		Dec. 13, 1959	4.56	1,040
	Jan. 26, 1952	5.03	1,220		Jan. 3, 1960	6.28	2,290
	Mar. 11, 1952	6.27	2,160		Feb. 11, 1960	5.85	1,930
	Apr. 6, 1952	5.52	1,590		Feb. 19, 1960	4.58	1,070
	Apr. 28, 1952	4.82	1,120		Mar. 31, 1960	4.95	1,280
	June 1, 1952	6.12	2,010		Apr. 5, 1960	4.85	1,220
					June 4, 1960	5.08	1,390
1953	Nov. 23, 1952	5.77	1,700		July 30, 1960	4.74	1,160
	Dec. 12, 1952	5.12	1,260		Sept.13, 1960	7.80	3,630

1925. Hockanum River near East Hartford, Conn.

Location.--Lat 41°46'59", long 72°35'16", on left bank 700 ft downstream from dam at Case Bros. Inc. papermill, 1½ miles downstream from Hop Brook and 2¾ miles east of East Hartford, Hartford County.

Drainage area.--Area, 74.5 sq mi. Area of lakes, reservoirs, and ponds, 1.38 sq mi. Length of main stream, 22.6 miles. Average slope above gage, 28.5 ft per mile. Average tributary slope, 106 ft per mile. Average land slope, 339 ft per mile. Stream density, 1.64 miles per square mile. Mean altitude of basin, 432 ft.

Gage.--Recording. Datum of gage is 54.5 ft above mean sea level, datum of 1929 (levels by Department of Engineering, city of Hartford).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and by flow-over-dam measurement at 5,160 cfs.

Remarks.--Flood records affected by local regulation less than 10 percent. Flow regulated by Shenipsit Lake (usable capacity, 250,000,000 cu ft). 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)
1920	Mar. 6, 1920	6.9	1,380	1929	Feb. 7, 1929	6.62	1,190
	Mar. 13, 1920	8.1	1,860				
	Mar. 17, 1920	5.8	1,030	1930	Jan. 15, 1930	3.57	390
1921	Dec. 5, 1920	4.34	623	1931	June 10, 1931	3.53	405
	Dec. 15, 1920	4.36	623				

Peak stages and discharges of Hockanum River near East Hartford, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 28, 1932	3.71	435	1947	Mar. 3, 1947	3.79	368
1933	Mar. 22, 1933	4.03	512	1948	Mar. 17, 1948	5.94	880
1934	Mar. 5, 1934	8.29	1,920	1949	Dec. 31, 1948	4.12	450
1935	Jan. 10, 1935	5.53	810	1950	Aug. 20, 1950	5.18	700
1936	Mar. 12, 1936	8.06	1,810	1951	Feb. 8, 1951	6.25	1,000
1937	Dec. 20, 1936	5.07	710		Mar. 31, 1951	6.16	970
1938	Jan. 25, 1938	8.79	2,140	1952	Mar. 12, 1952	6.14	940
	Sept.21, 1938	13.78	5,160	1953	Jan. 24, 1953	6.78	1,150
1939	Feb. 15, 1939	8.25	1,340		Mar. 30, 1953	6.60	1,090
1940	Jan. 15, 1940	7.53	1,410	1954	Sept.11, 1954	6.83	1,150
	Mar. 15, 1940	7.35	1,380	1955	Aug. 19, 1955	10.46	2,740
1941	Feb. 8, 1941	8.16	1,690	1956	Oct. 16, 1955	7.96	1,520
1942	Mar. 9, 1942	5.01	635		Nov. 5, 1955	6.94	1,180
1943	Dec. 31, 1942	6.59	1,100	1957	Apr. 9, 1957	4.32	455
1944	Sept.15, 1944	6.62	1,020	1958	Feb. 28, 1958	4.73	562
1945	Feb. 27, 1945	6.38	960	1959	Mar. 6, 1959	7.16	1,270
1946	Dec. 26, 1945	4.49	465	1960	Sept.12, 1960	7.13	1,240

1935. Salmon River near East Hampton, Conn.

Location.--Lat 41°33'11", long 72°26'57", on right bank at Comstock Bridge near New London-Middlesex County line, 0.6 mile downstream from Dickinson Creek and 3½ miles southeast of East Hampton, Middlesex County.

Drainage area.--Area, 105 sq mi. Area of lakes, reservoirs, and ponds, 1.06 sq mi. Length of main stream, 10.5 miles. Average slope above gage, 29.7 ft per mile. Average tributary slope, 74.6 ft per mile. Average land slope, 349 ft per mile. Stream density, 1.62 miles per square mile. Mean altitude of basin, 500 ft.

Gage.--Recording. Datum of gage is 69.50 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,100 cfs and extended above on basis of flow-over-dam measurement half a mile upstream.

Remarks.--Flood records not affected by regulation. 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)
1929	Jan. 6, 1929	3.10	1,370	1933	Nov. 7, 1932	3.32	1,300
	Feb. 7, 1929	4.27	2,630		Nov. 10, 1932	4.20	1,840
	Mar. 5, 1929	4.38	2,810		Mar. 21, 1933	3.63	1,510
	Apr. 17, 1929	3.08	1,370				
	May 3, 1929	3.06	1,320	1934	Mar. 5, 1934	5.43	2,560
					Apr. 1, 1934	3.79	1,750
1930	Mar. 26, 1930	2.60	940		Apr. 12, 1934	3.76	1,710
1931	Mar. 9, 1931	3.14	1,420	1935	Jan. 10, 1935	5.43	3,030
	Mar. 29, 1931	3.51	1,770				
	June 17, 1931	3.15	1,420	1936	Jan. 16, 1936	3.30	1,380
					Mar. 12, 1936	a6.98	-
1932	Mar. 28, 1932	4.00	2,330		Mar. 12, 1936	-	6,250
					Mar. 18, 1936	5.20	3,710
1933	Oct. 19, 1932	3.50	1,420		Mar. 21, 1936	3.52	1,570

a Backwater from ice.

Peak stages and discharges of Salmon River near East Hampton, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Apr. 6, 1936	4.09	2,200
1937	Dec. 12, 1936	3.29	1,360
	Dec. 20, 1936	4.43	2,640
	Mar. 16, 1937	3.84	1,920
	Apr. 6, 1937	3.13	1,350
1938	Nov. 14, 1937	3.35	1,550
	Nov. 29, 1937	6.27	5,900
	Jan. 7, 1938	a3.75	-
	Jan. 7, 1938	3.70	1,900
	Jan. 25, 1938	6.21	5,720
	July 23, 1938	6.5	6,300
	Aug. 8, 1938	3.16	1,350
	Sept.21, 1938	10.96	12,400
1939	Dec. 6, 1938	3.97	1,500
	Feb. 15, 1939	4.4	1,900
	Feb. 26, 1939	4.3	1,800
	Apr. 2, 1939	4.16	1,700
	Apr. 7, 1939	3.85	1,400
1940	Jan. 15, 1940	5.40	3,470
	Mar. 15, 1940	5.02	2,980
	Mar. 31, 1940	3.76	1,590
	Apr. 9, 1940	3.57	1,390
	Apr. 13, 1940	4.28	2,170
	May 31, 1940	5.12	3,100
1941	Feb. 8, 1941	a5.99	-
	Feb. 8, 1941	5.89	4,120
1942	Mar. 3, 1942	3.99	1,820
	Mar. 9, 1942	4.54	2,440
	Mar. 22, 1942	3.74	1,560
1943	Nov. 25, 1942	3.35	1,200
	Dec. 2, 1942	3.53	1,360
	Dec. 30, 1942	5.39	3,470
	Mar. 7, 1943	4.66	2,560
1944	Jan. 6, 1944	a4.13	-
	Feb. 15, 1944	a4.28	-
	Feb. 15, 1944	4.0	1,820
	Mar. 13, 1944	3.57	1,360
	Apr. 25, 1944	4.12	1,930
	Sept.15, 1944	4.90	2,860
1945	Nov. 30, 1944	4.25	2,100
	Jan. 1, 1945	4.44	2,320
	Feb. 27, 1945	a4.00	-
	Feb. 27, 1945	3.85	1,660
	Apr. 26, 1945	4.07	1,880
1946	Dec. 26, 1945	3.65	1,380
1947	Apr. 6, 1947	3.25	1,240
1948	Nov. 12, 1947	3.85	1,860
	Mar. 16, 1948	4.37	2,480
1948	Mar. 20, 1948	3.74	1,760
	Apr. 1, 1948	3.76	1,760
1949	Dec. 31, 1948	3.59	1,590
	Jan. 6, 1949	3.38	1,370
1950	Mar. 23, 1950	3.03	1,050
1951	Feb. 7, 1951	4.80	3,080
	Feb. 18, 1951	3.32	1,310
	Feb. 23, 1951	3.47	1,460
	Mar. 31, 1951	4.33	2,480
	Apr. 3, 1951	4.40	2,540
1952	Nov. 3, 1951	3.44	1,430
	Dec. 21, 1951	4.79	3,080
	Jan. 23, 1952	3.70	1,700
	Jan. 26, 1952	3.50	1,490
	Mar. 11, 1952	5.66	4,390
1953	Jan. 24, 1953	4.88	2,860
	Feb. 15, 1953	3.78	1,610
	Mar. 13, 1953	4.73	2,680
	Mar. 16, 1953	4.55	2,440
	Mar. 24, 1953	3.50	1,320
	Mar. 30, 1953	4.68	2,620
	Apr. 14, 1953	3.70	1,510
1954	Apr. 18, 1954	4.58	2,800
	Sept.11, 1954	6.7	6,030
1955	Nov. 3, 1954	3.94	1,980
	Dec. 15, 1954	4.10	2,160
	Dec. 18, 1954	4.05	2,100
	Mar. 23, 1955	3.48	1,470
	Aug. 19, 1955	6.02	4,870
1956	Oct. 16, 1955	8.21	9,130
	Oct. 31, 1955	3.92	1,940
	Nov. 5, 1955	4.68	2,940
1957	Jan. 23, 1957	a3.73	-
	Jan. 23, 1957	3.50	1,490
	Apr. 6, 1957	3.57	1,540
1958	Dec. 27, 1957	3.68	1,700
	Jan. 22, 1958	3.82	1,810
	Jan. 26, 1958	3.67	1,640
1959	Nov. 29, 1958	3.66	1,640
	Mar. 6, 1959	5.00	3,360
	Apr. 3, 1959	4.67	2,870
1960	Dec. 13, 1959	3.78	1,760
	Jan. 3, 1960	4.40	2,520
	Feb. 19, 1960	3.75	1,700
	Mar. 31, 1960	4.07	2,060
	Apr. 5, 1960	3.55	1,480
	Sept.12, 1960	3.52	1,420

a Backwater from ice.

1940. Eightmile River at North Plain, Conn.

Location.--Lat 41°26'30", long 72°20'00", at center of span on downstream side of bridge on State Highway 82 at North Plain, Middlesex County, 500 ft downstream from Strongs Brook, 0.8 mile upstream from confluence with East Branch, and 6 miles upstream from mouth.

Drainage area.--Area, 18.6 sq mi. Area of lakes, reservoirs, and ponds, 0.34 sq mi. Length of main stream, 9.0 miles. Average slope above gage, 55.4 ft per mile.

Gage.--Nonrecording. At site 0.7 mile downstream at datum 12.17 ft lower prior to May 1, 1939. Datum of gage is 57.74 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended by logarithmic plotting. Prior to May 1, 1939, defined by current-meter measurements below 220 cfs and at 1,810 cfs by computation of peak flow through submerged highway bridge at North Plain.

Remarks.--Flood records not affected by regulation. Peak stages determined from high-water marks or estimated from graphs based on gage readings and recorder graph for station on East Branch. 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)
1938	Nov. 29, 1937	6.8	1,020	1952	Jan. 23, 1952	5.0	415
	Jan. 25, 1938	4.88	426		Jan. 26, 1952	5.3	475
	July 24, 1938	6.20	785		Mar. 11, 1952	5.75	750
	Sept.21, 1938	8.2	1,810		Aug. 17, 1952	4.8	375
1939	Apr. 7, 1939	5.18	495	1953	Jan. 24, 1953	4.79	375
					Feb. 15, 1953	4.98	415
1940	Jan. 15, 1940	6.0	645		Mar. 4, 1953	5.46	605
	Mar. 15, 1940	6.19	830		Mar. 13, 1953	6.05	860
	Apr. 13, 1940	5.40	475		Mar. 15, 1953	5.5	605
	May 31, 1940	6.1	675		Mar. 24, 1953	5.1	435
					Mar. 30, 1953	5.30	475
1941	Feb. 8, 1941	6.0	720		Apr. 14, 1953	5.10	435
1942	Mar. 3, 1942	4.96	375	1954	Dec. 7, 1953	5.02	427
	Mar. 9, 1942	5.93	615		Mar. 20, 1954	4.7	355
	Mar. 22, 1942	5.82	585		Apr. 18, 1954	5.57	628
					Aug. 31, 1954	5.05	441
1943	Dec. 2, 1942	5.6	525		Sept.11, 1954	6.56	1,240
	Dec. 30, 1942	6.7	1,160				
	Mar. 7, 1943	6.4	775	1955	Nov. 3, 1954	5.73	700
					Dec. 14, 1954	5.5	605
1944	Mar. 7, 1944	5.20	425		Dec. 18, 1954	5.89	805
	Mar. 13, 1944	5.5	500		Feb. 7, 1955	4.67	376
	Mar. 24, 1944	5.0	375		Mar. 22, 1955	4.55	353
	Apr. 24, 1944	5.8	585		Aug. 19, 1955	5.80	750
1945	Nov. 30, 1944	5.7	555	1956	Oct. 15, 1955	7.72	2,350
					Oct. 31, 1955	4.80	350
1946	Dec. 26, 1945	5.15	425		Nov. 5, 1955	5.85	750
	Feb. 7, 1946	4.95	375				
				1957	Jan. 23, 1957	5.63	650
1947	Apr. 6, 1947	4.1	226		Apr. 6, 1957	5.20	485
1948	Nov. 12, 1947	5.61	650	1958	Jan. 22, 1958	5.30	520
	Mar. 16, 1948	4.78	375		Jan. 26, 1958	5.03	415
	Mar. 20, 1948	4.8	375		Apr. 6, 1958	4.41	382
	Apr. 1, 1948	5.5	550				
	May 31, 1948	4.7	355	1959	Oct. 23, 1958	4.91	382
					Mar. 6, 1959	6.04	860
1949	Jan. 6, 1949	5.22	455		Apr. 3, 1959	6.19	980
1950	Mar. 23, 1950	4.57	335	1960	Dec. 12, 1959	5.82	750
					Jan. 3, 1960	5.04	415
1951	Feb. 8, 1951	5.5	525		Feb. 19, 1960	5.08	450
	Mar. 20, 1951	5.15	455		Mar. 31, 1960	5.03	415
	Apr. 3, 1951	5.6	650		Apr. 5, 1960	4.90	382
1952	Dec. 21, 1951	6.05	860				

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1945. East Branch Eightmile River near North Lyme, Conn.

Location.--Lat 41°25'40", long 72°20'05", on left bank at highway bridge on State Highway 156, 0.4 mile upstream from confluence with West Branch, 1.1 miles north of North Lyme, New London County, 1.2 miles south of North Plain, and 5½ miles upstream from mouth of Eightmile River.

Drainage area.--Area, 22.0 sq mi. Area of lakes, reservoirs, and ponds, 0.12 sq mi. Length of main stream, 10.5 miles. Average slope above gage, 38.0 ft per mile.

Gage.--Recording. Datum of gage is 55.21 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs and extended above on basis of study of flow at contracted control section at 950 and 2,950 cfs.

Remarks.--Flood records not affected by regulation. All stages are recorded stages. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Nov. 29, 1937	5.25	1,010
	Jan. 8, 1938	3.01	327
	Jan. 25, 1938	3.68	514
	June 29, 1938	2.92	309
	July 24, 1938	4.92	897
	Sept.21, 1938	7.0	2,950
1939	Dec. 6, 1938	2.60	304
	Mar. 16, 1939	2.60	304
	Apr. 7, 1939	3.38	560
1940	Jan. 15, 1940	3.65	650
	Mar. 15, 1940	3.71	670
	Apr. 13, 1940	3.24	508
	June 1, 1940	3.51	595
1941	Feb. 8, 1941	3.99	790
1942	Mar. 3, 1942	3.00	410
	Mar. 9, 1942	3.62	630
	Mar. 22, 1942	3.38	550
1943	Dec. 2, 1942	3.19	470
	Dec. 31, 1942	3.88	750
	Mar. 7, 1943	3.45	578
1944	Mar. 8, 1944	2.68	330
	Mar. 14, 1944	3.28	525
	Mar. 24, 1944	3.10	440
	Apr. 25, 1944	3.05	425
1945	Nov. 22, 1944	2.61	305
	Dec. 1, 1944	3.44	578
	Jan. 2, 1945	2.91	398
	Feb. 27, 1945	3.34	542
	Apr. 26, 1945	3.00	425
1946	Dec. 26, 1945	3.33	542
	Feb. 7, 1946	3.33	542
1947	Apr. 6, 1947	2.40	250
1948	Nov. 13, 1947	3.28	490
	Mar. 17, 1948	3.60	595
	Mar. 20, 1948	3.18	455
	Apr. 2, 1948	3.33	508
	May 17, 1948	3.07	410
	May 31, 1948	2.89	362
1949	Jan. 6, 1949	3.46	542
1950	Mar. 23, 1950	3.26	490
1951	Feb. 2, 1951	2.65	318
	Feb. 8, 1951	3.39	550
	Mar. 20, 1951	3.03	341
	Mar. 31, 1951	3.08	353
	Apr. 3, 1951	3.89	610
1952	Dec. 21, 1951	4.22	730
	Jan. 27, 1952	3.69	530
	Mar. 12, 1952	4.13	710
	Aug. 17, 1952	3.28	410
1953	Jan. 25, 1953	3.08	353
	Feb. 16, 1953	3.36	380
	Mar. 4, 1953	3.63	515
	Mar. 14, 1953	4.10	690
	Mar. 16, 1953	3.90	610
	Mar. 25, 1953	3.13	366
	Mar. 30, 1953	3.57	485
1954	Dec. 7, 1953	3.22	380
	Apr. 18, 1954	3.62	500
	Sept.12, 1954	4.63	910
1955	Dec. 15, 1954	3.58	510
	Dec. 19, 1954	3.77	575
	Aug. 19, 1955	3.49	467
1956	Oct. 16, 1955	5.90	2,200
	Nov. 5, 1955	3.73	575
1957	Jan. 23, 1957	3.52	470
	Apr. 6, 1957	3.12	365
1958	Jan. 16, 1958	2.79	305
	Jan. 23, 1958	3.59	510
	Jan. 26, 1958	3.43	455
	Feb. 28, 1958	2.93	335
	Apr. 7, 1958	2.81	305
1959	Mar. 7, 1959	3.77	575
	Apr. 3, 1959	3.90	640
1960	Dec. 13, 1959	3.80	600
	Jan. 4, 1960	2.97	335
	Feb. 19, 1960	2.92	325
	Mar. 31, 1960	2.86	315
	Apr. 6, 1960	2.83	315

1950. Menunketesuck River near Clinton, Conn.

Location..--Lat 41°18'10", long 72°31'00", on right bank at Fairy Dell, 100 ft downstream from Cobb's Bridge, 1.7 miles north of Clinton, Middlesex County, 2.4 miles downstream from Kelseytown Reservoir, and 4.9 miles upstream from mouth.

Drainage area.--Area, 11.6 sq mi. Area of lakes, reservoirs, and ponds, 0.23 sq mi. Length of main stream, 11.3 miles. Average slope above gage, 47.0 ft per mile.

Gage.--Recording. Datum of gage is 23.64 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs and extended above on basis of flow-over-dam measurement at 1,500 cfs.

Remarks.--Flood records not affected by regulation. 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)
1942	Mar. 3, 1942	4.03	288	1952	Jan. 26, 1952	4.17	302
	Mar. 9, 1942	3.61	220		Mar. 11, 1952	4.48	370
	Mar. 22, 1942	4.58	390		Aug. 17, 1952	3.55	212
1943	Dec. 2, 1942	4.28	330	1953	Feb. 16, 1953	3.65	228
	Dec. 30, 1942	6.08	720		Mar. 4, 1953	4.04	288
					Mar. 13, 1953	6.28	820
1944	Mar. 7, 1944	3.57	212		Mar. 16, 1953	4.96	465
	Mar. 13, 1944	4.67	400		Mar. 30, 1953	4.00	280
	Mar. 24, 1944	3.67	228				
	Apr. 25, 1944	4.12	295	1954	Apr. 18, 1954	4.83	445
					Sept.11, 1954	8.51	1,500
1945	Nov. 30, 1944	4.32	330				
	Jan. 2, 1945	3.58	220	1955	Dec. 15, 1954	4.50	375
	Feb. 27, 1945	3.72	235		Dec. 19, 1954	4.08	295
	Apr. 26, 1945	5.21	510		Mar. 23, 1955	3.50	205
	May 11, 1945	3.81	250				
				1956	Oct. 16, 1955	5.93	709
1946	Dec. 26, 1945	4.32	330		Oct. 31, 1955	4.05	288
	May 28, 1946	3.74	235		Nov. 5, 1955	5.53	600
	June 3, 1946	3.68	235				
				1957	Jan. 23, 1957	3.79	250
1947	Apr. 6, 1947	3.37	184		Apr. 6, 1957	3.99	280
1948	Nov. 12, 1947	6.72	870	1958	Jan. 15, 1958	4.33	345
	Mar. 17, 1948	3.99	280		Jan. 22, 1958	4.38	355
	Mar. 22, 1948	4.02	280		Jan. 26, 1958	3.98	280
	Apr. 1, 1948	4.56	380		Feb. 28, 1958	4.29	335
	May 17, 1948	4.77	420		Apr. 7, 1958	3.80	250
					Apr. 28, 1958	4.00	280
1949	Dec. 31, 1948	5.19	510				
	Jan. 6, 1949	4.49	370	1959	Oct. 26, 1958	3.55	212
					Mar. 6, 1959	4.47	365
1950	June 4, 1950	3.17	151		Apr. 3, 1959	4.59	395
1951	Feb. 8, 1951	3.68	247	1960	Dec. 13, 1959	4.61	395
	Mar. 20, 1951	4.22	310		Feb. 19, 1960	4.00	280
	Mar. 31, 1951	4.37	340		Mar. 31, 1960	3.83	258
	Apr. 3, 1951	3.66	228		Apr. 5, 1960	3.60	220
1952	Dec. 21, 1951	4.52	370				

1965. Quinnipiac River at Wallingford, Conn.

Location.--Lat 41°26'58", long 72°50'29", on right bank 0.8 mile downstream from Quinnipiac Street Bridge in Wallingford, New Haven County, and 2 miles upstream from Worton Brook.

Drainage area.--Area, 109 sq mi. Area of lakes, reservoirs, and ponds, 1.57 sq mi. Length of main stream, 24.9 miles. Average slope above gage, 6.80 ft per mile. Average tributary slope, 91.2 ft per mile. Average land slope, 351 ft per mile. Stream density, 1.66 miles per square mile. Mean altitude of basin, 300 ft.

Gage.--Recording. Datum of gage is 20.24 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and at 5,230 cfs by flow-over-dam measurement 1 mile upstream.

Remarks.--Flood records not affected by regulation. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 9, 1931	4.73	852
1932	Mar. 29, 1932	5.90	1,330
1933	Nov. 11, 1932	5.75	1,260
	Mar. 9, 1933	4.91	930
	Mar. 22, 1933	5.70	1,250
1934	Mar. 5, 1934	6.86	1,810
	Apr. 1, 1934	6.28	1,480
	Apr. 13, 1934	6.19	1,430
	May 4, 1934	5.23	1,050
	Sept.10, 1934	5.53	1,180
1935	Dec. 20, 1934	4.83	912
	Jan. 10, 1935	5.40	1,120
	Mar. 7, 1935	5.11	1,000
1936	Mar. 12, 1936	8.20	2,680
	Mar. 19, 1936	6.38	1,580
	Apr. 7, 1936	5.59	1,210
1937	Dec. 21, 1936	5.52	1,160
	Mar. 17, 1937	4.86	912
	Apr. 7, 1937	5.15	1,020
1938	Nov. 29, 1937	7.06	1,890
	Jan. 26, 1938	7.78	2,340
	July 24, 1938	6.00	1,380
	Sept.21, 1938	9.55	5,230
1939	Dec. 6, 1938	6.27	1,600
	Jan. 6, 1939	5.27	1,100
	Feb. 16, 1939	5.46	1,180
	Feb. 26, 1939	6.40	1,690
	Apr. 3, 1939	5.92	1,330
	Apr. 7, 1939	4.85	935
1940	Jan. 16, 1940	6.90	1,780
	Mar. 15, 1940	7.19	1,950
	Mar. 21, 1940	4.53	930
	Apr. 1, 1940	5.35	1,170
	Apr. 9, 1940	5.97	1,440
	Apr. 13, 1940	5.12	1,070
	Apr. 21, 1940	4.83	1,020
	May 31, 1940	7.66	2,270
1941	Feb. 8, 1941	7.33	2,010
1942	Mar. 4, 1942	4.72	1,020
	Mar. 9, 1942	5.85	1,370
	Mar. 22, 1942	4.72	1,020
1943	Dec. 30, 1942	7.09	1,890
	Mar. 7, 1943	6.15	1,570
	Mar. 17, 1943	4.45	930
1944	Feb. 15, 1944	4.89	1,050
	Mar. 7, 1944	4.92	1,050
	Mar. 13, 1944	4.56	960
1944	Apr. 25, 1944	5.30	1,170
	Sept.15, 1944	7.61	2,200
1945	Nov. 30, 1944	5.11	1,110
	Jan. 2, 1945	5.45	1,180
	Feb. 27, 1945	5.45	1,180
	Mar. 4, 1945	4.91	1,010
	Apr. 27, 1945	5.10	1,070
1946	Dec. 27, 1945	5.07	1,070
	May 28, 1946	5.39	1,180
1947	Mar. 14, 1947	4.12	770
1948	Nov. 9, 1947	4.72	950
	Nov. 12, 1947	5.49	1,220
	Mar. 17, 1948	6.37	1,690
	Apr. 1, 1948	5.92	1,410
1949	Jan. 1, 1949	7.97	2,500
	Jan. 7, 1949	6.21	1,580
1950	Mar. 24, 1950	3.53	655
1951	Feb. 8, 1951	6.20	1,480
	Feb. 18, 1951	4.68	940
	Feb. 23, 1951	4.95	1,030
	Mar. 31, 1951	6.89	1,880
	Apr. 3, 1951	5.48	1,180
1952	Nov. 8, 1951	4.63	915
	Dec. 21, 1951	6.35	1,580
	Jan. 23, 1952	6.03	1,380
	Jan. 27, 1952	5.20	1,090
	Mar. 12, 1952	7.42	2,270
	Apr. 6, 1952	5.13	1,060
	Apr. 29, 1952	4.87	1,000
	June 2, 1952	7.16	2,100
1953	Jan. 25, 1953	6.92	1,880
	Mar. 14, 1953	7.15	2,100
	Mar. 16, 1953	7.11	2,020
	Mar. 27, 1953	6.87	1,880
	Mar. 30, 1953	5.83	1,300
	Apr. 8, 1953	5.28	1,120
	Apr. 14, 1953	5.84	1,300
	Apr. 16, 1953	4.98	1,030
1954	Sept.11, 1954	6.81	1,810
1955	Dec. 15, 1954	6.70	1,750
	Mar. 23, 1955	5.00	1,030
	Aug. 20, 1955	9.01	3,790
1956	Oct. 17, 1955	8.49	3,000
	Oct. 31, 1955	6.49	1,580
	Nov. 5, 1955	7.75	2,340
1957	Apr. 7, 1957	4.48	890

Peak stages and discharges of Quinnipiac River at Wallingford, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 22, 1958	5.20	1,090	1960	Nov. 25, 1959	-	1,200
	Jan. 26, 1958	5.40	1,150		Dec. 13, 1959	5.60	1,220
	Mar. 1, 1958	5.26	1,120		Jan. 3, 1960	6.39	1,540
	Apr. 7, 1958	5.26	1,120		Feb. 12, 1960	5.11	1,060
					Mar. 31, 1960	6.10	1,420
1959	Nov. 29, 1958	5.55	1,220		Apr. 5, 1960	4.78	970
	Mar. 7, 1959	7.45	2,070		Sept.12, 1960	7.50	2,130
	Apr. 3, 1959	5.98	1,380				
1960	Oct. 24, 1959	6.18	1,460				

HOUSATONIC RIVER BASIN

1970. East Branch Housatonic River at Coltsville, Mass.

Location.--Lat 42°28'10", long 73°11'49", on right bank at Coltsville, Berkshire County, 1¼ miles upstream from Unkamet Brook and 2 miles northeast of Pittsfield.

Drainage area.--Area, 57.1 sq mi. Area of lakes, reservoirs, and ponds, 0.69 sq mi. Length of main stream, 14.7 miles. Average slope above gage, 47.7 ft per mile. Average tributary slope, 165 ft per mile. Average land slope, 521 ft per mile. Stream density, 1.91 miles per square mile. Mean altitude of basin, 1,678 ft.

Gage.--Recording. Datum of gage is 993.49 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of flow-over-dam measurements at 5,700 and 6,400 cfs. Changes in relation occur.

Remarks.--Flow regulated by powerplants above station. Diversion above station from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950. Base for partial-duration series, 1,150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 12, 1936	7.77	2,540	1949	Jan. 6, 1949	6.56	1,600
	Mar. 18, 1936	10.14	6,000				
				1950	Apr. 5, 1950	5.64	1,070
1937	Apr. 6, 1937	6.32	1,190				
	May 15, 1937	7.22	1,910	1951	Nov. 26, 1950	8.64	3,280
					Mar. 31, 1951	7.98	2,630
1938	Oct. 20, 1937	7.11	1,670		Apr. 3, 1951	5.80	1,160
	Jan. 25, 1938	7.51	1,950				
	June 13, 1938	6.28	1,150	1952	Apr. 5, 1952	6.75	1,700
	July 23, 1938	7.65	2,060		June 1, 1952	7.28	2,080
	Sept.21, 1938	a10.80	6,400				
				1953	Dec. 12, 1952	6.47	1,530
1939	Dec. 6, 1938	6.62	1,430		Mar. 13, 1953	5.79	1,160
	Apr. 19, 1939	8.98	3,410		Mar. 16, 1953	6.11	1,320
					Mar. 24, 1953	6.64	1,630
1940	Apr. 9, 1940	5.97	1,160				
	Apr. 12, 1940	6.40	1,380	1954	Apr. 18, 1954	5.93	1,220
					Sept.11, 1954	6.98	1,870
1941	Sept. 1, 1941	5.18	832				
				1955	Nov. 3, 1954	6.03	1,280
1942	Mar. 9, 1942	6.51	1,440		Nov. 21, 1954	6.08	1,300
					Aug. 19, 1955	6.65	1,640
1943	Nov. 25, 1942	6.97	1,740				
				1956	Oct. 16, 1955	7.18	2,010
1944	Nov. 9, 1943	6.22	1,280		Apr. 16, 1956	6.07	1,300
					Apr. 30, 1956	5.93	1,220
1945	Apr. 26, 1945	7.00	1,740				
	June 20, 1945	6.21	1,280	1957	Jan. 23, 1957	5.70	1,120
	July 22, 1945	7.34	1,970				
				1958	Dec. 21, 1957	5.64	1,090
1946	Mar. 9, 1946	6.03	1,190				
				1959	Jan. 22, 1959	6.78	1,730
1947	Apr. 6, 1947	6.97	1,730				
				1960	Oct. 24, 1959	6.76	1,710
1948	Mar. 20, 1948	5.94	1,230		Jan. 3, 1960	6.04	1,280
	Mar. 22, 1948	7.13	1,970		Mar. 31, 1960	5.87	1,200
					Apr. 5, 1960	6.87	1,790
1949	Dec. 31, 1948	10.38	5,700		Sept.12, 1960	7.05	1,920

a Maximum known since at least 1755.

1975. Housatonic River near Great Barrington, Mass.

Location.--Lat 42°13'55", long 73°21'19", on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mile upstream from Williams River and 2 miles north of Great Barrington, Berkshire County.

Drainage area.--Area, 280 sq mi. Area of lakes, reservoirs, and ponds, 5.43 sq mi. Length of main stream, 49.7 miles. Average slope above gage, 16.5 ft per mile. Average tributary slope, 135 ft per mile. Average land slope, 553 ft per mile. Stream density, 1.52 miles per square mile. Mean altitude of basin, 1,432 ft.

Gage.--Nonrecording prior to Oct. 1, 1931; recording thereafter. Datum of gage is 683.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,300 cfs and extended above on basis of flow-over-dam measurements at 11,520 and 12,200 cfs. Large changes in relation occur.

Remarks.--Flow regulated by powerplants above station. 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)
1914	Mar. 28, 1914	8.5	5,800	1938	Jan. 26, 1938	7.33	3,670
					July 25, 1938	7.10	3,420
1915	July 9, 1915	7.4	4,680		Sept.22, 1938	11.72	11,520
1916	Mar. 31, 1916	8.0	5,300	1939	Dec. 7, 1938	7.53	3,180
					Apr. 20, 1939	9.05	5,100
1917	Mar. 28, 1917	7.2	4,500				
				1940	Apr. 1, 1940	8.06	3,950
1918	Mar. 23, 1918	5.4	2,830		Apr. 13, 1940	8.38	4,310
					Apr. 21, 1940	7.13	2,940
1919	May 23, 1919	5.2	2,650				
				1941	Dec. 30, 1940	5.15	1,400
1920	Mar. 27, 1920	7.6	4,900				
				1942	Mar. 10, 1942	6.93	2,760
1921	Mar. 10, 1921	7.8	5,100		Mar. 18, 1942	6.98	2,850
					Mar. 23, 1942	6.68	2,590
1922	Mar. 29, 1922	6.8	4,100				
				1943	Nov. 27, 1942	7.28	3,120
1923	Apr. 6, 1923	7.7	5,000		Mar. 21, 1943	6.50	2,430
1924	Apr. 7, 1924	8.0	5,300	1944	Apr. 26, 1944	6.65	2,550
1925	Feb. 13, 1925	7.4	4,700	1945	Mar. 19, 1945	7.75	3,570
					Apr. 27, 1945	7.36	3,180
1926	Apr. 25, 1926	6.2	3,550		July 24, 1945	7.57	3,390
					July 30, 1945	6.90	2,760
1927	Mar. 20, 1927	7.0	4,080				
				1946	Mar. 10, 1946	7.63	3,450
1928	Nov. 5, 1927	10.0	7,910				
				1947	Mar. 16, 1947	7.23	3,060
1929	Mar. 16, 1929	8.4	5,220		Apr. 7, 1947	8.22	4,090
1930	Mar. 10, 1930	5.0	2,040	1948	Mar. 23, 1948	9.25	5,420
					Mar. 29, 1948	6.60	2,540
1931	Apr. 13, 1931	6.4	2,800		May 19, 1948	6.50	2,470
					May 26, 1948	6.99	2,840
1932	Apr. 2, 1932	6.74	2,910				
	Apr. 13, 1932	6.60	2,840	1949	Jan. 1, 1949	12.08	12,200
					Jan. 7, 1949	8.13	3,610
1933	Nov. 21, 1932	6.62	2,850				
	Apr. 8, 1933	6.70	2,910	1950	Apr. 6, 1950	6.78	2,670
	Apr. 19, 1933	6.65	2,880				
	Sept.17, 1933	9.13	6,380	1951	Nov. 26, 1950	8.08	3,910
					Apr. 1, 1951	8.41	4,290
1934	Mar. 6, 1934	6.24	2,560		Apr. 4, 1951	7.54	3,340
	Apr. 3, 1934	-	(a)				
	Apr. 14, 1934	5.81	2,480	1952	Jan. 28, 1952	7.05	2,890
					Apr. 6, 1952	7.97	3,790
1935	Jan. 11, 1935	7.37	3,710		June 3, 1952	7.79	3,590
1936	Mar. 13, 1936	9.45	6,980	1953	Dec. 13, 1952	6.75	2,650
	Mar. 19, 1936	10.60	8,990		Jan. 25, 1953	7.63	3,430
	Apr. 8, 1936	6.22	2,600		Mar. 17, 1953	7.20	3,020
					Mar. 28, 1953	8.14	3,970
1937	May 15, 1937	6.62	2,940				

a No record; probably greater than base discharge.

Peak stages and discharges of Housatonic River near Great Barrington, Mass.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 19, 1954	6.63	2,600	1958	Dec. 21, 1957	6.78	2,710
	Sept.12, 1954	6.78	2,710		Apr. 8, 1958	6.93	2,810
					Apr. 18, 1958	6.42	2,460
1955	Nov. 4, 1954	6.65	2,620				
	Nov. 22, 1954	6.62	2,590	1959	Jan. 22, 1959	7.90	3,710
	Dec. 20, 1954	6.37	2,430		Apr. 4, 1959	6.87	2,770
	Aug. 19, 1955	9.65	6,060				
				1960	Jan. 4, 1960	7.11	2,960
1956	Oct. 17, 1955	8.43	4,320		Feb. 12, 1960	6.85	2,760
	Nov. 7, 1955	6.43	2,470		Apr. 1, 1960	8.34	4,210
	Apr. 9, 1956	7.46	3,260		Apr. 5, 1960	9.66	6,550
	Apr. 17, 1956	8.51	4,410		Sept.14, 1960	7.05	3,060
	Apr. 30, 1956	8.10	3,930				
1957	Jan. 23, 1957	6.06	2,240				

1980. Green River near Great Barrington, Mass.

Location.--Lat 42°11'31", long 73°23'28", on left bank 250 ft downstream from Seekonk Road bridge, 0.2 mile downstream from Seekonk Brook, 1½ miles west of Great Barrington, Berkshire County, and 3 miles upstream from mouth.

Drainage area.--52.5 sq mi.

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

Stage-discharge relation.--Defined by current-meter measurements below 880 cfs and extended above.

Remarks.--Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 3, 1951	4.11	774	1956	Oct. 31, 1955	5.20	810
	Nov. 7, 1951	4.53	965		Apr. 5, 1956	5.56	954
	Jan. 27, 1952	4.40	905		Apr. 17, 1956	7.65	2,010
	Apr. 6, 1952	5.86	1,710				
	June 1, 1952	5.91	1,640	1957	Jan. 23, 1957	4.88	683
1953	Dec. 11, 1952	5.90	1,630	1958	Dec. 21, 1957	6.97	1,520
	Jan. 25, 1953	5.89	1,620		Apr. 7, 1958	6.93	1,500
	Mar. 13, 1953	4.59	830				
	Mar. 16, 1953	5.06	1,080	1959	Jan. 22, 1959	6.31	1,240
	Mar. 24, 1953	4.64	855		Mar. 6, 1959	6.38	1,280
	Mar. 27, 1953	4.65	860		Apr. 3, 1959	5.93	1,070
	May 1, 1953	4.54	805				
				1960	Jan. 3, 1960	6.97	1,600
1954	Dec. 7, 1953	5.01	1,050		Feb. 11, 1960	6.10	1,160
					Mar. 31, 1960	7.83	2,120
1955	Dec. 18, 1954	4.99	1,030		Apr. 4, 1960	7.65	2,010
	Aug. 19, 1955	5.75	1,060				

1985. Blackberry River at Canaan, Conn.

Location.--Lat 42°01'26", long 73°20'32", on right bank downstream from bridge on U.S. Highway 44, 0.7 mile southwest of Canaan, Litchfield County, and 1¼ miles upstream from mouth.

Drainage area.--48.2 sq mi.

Gage.--Recording. Datum of gage is 645.72 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of slope-area measurement at 14,200 cfs.

Remarks.--Base for partial-duration series, 800 cfs.

Peak stages and discharges of Blackberry River at Canaan, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Dec. 31, 1948	12.0	7,000	1955	Nov. 21, 1954	7.45	1,300
					Dec. 14, 1954	6.18	850
1950	Mar. 28, 1950	4.82	515		Aug. 19, 1955	13.01	14,200
1951	Nov. 26, 1950	9.37	2,550	1956	Oct. 16, 1955	9.12	2,830
	Feb. 7, 1951	6.55	970		Oct. 31, 1955	7.74	1,610
	Mar. 31, 1951	7.78	1,500		Nov. 4, 1955	7.10	1,240
	Apr. 3, 1951	6.80	1,050				
				1957	Jan. 23, 1957	6.28	880
1952	Nov. 3, 1951	6.72	1,010				
	Nov. 7, 1951	6.3	880	1958	Dec. 26, 1957	6.50	960
	Dec. 21, 1951	6.08	820		Dec. 31, 1957	7.40	1,400
	Apr. 6, 1952	7.34	1,250		Apr. 6, 1958	7.58	1,520
	June 1, 1952	8.11	1,670		Apr. 30, 1958	6.58	1,000
1953	Dec. 11, 1952	6.75	1,030	1959	Feb. 10, 1959	6.20	840
	Jan. 24, 1953	7.81	1,500		Mar. 6, 1959	a9.50	2,800
	Mar. 13, 1953	7.35	1,300		Mar. 21, 1959	6.62	1,010
	Mar. 16, 1953	6.78	1,050		Apr. 3, 1959	7.00	1,190
	Mar. 24, 1953	7.25	1,210				
	Mar. 27, 1953	6.70	1,010	1960	Jan. 3, 1960	7.75	1,480
					Feb. 11, 1960	7.5	1,330
1954	Mar. 3, 1954	6.19	850		Mar. 31, 1960	7.88	1,600
	Apr. 18, 1954	6.43	910		Apr. 5, 1960	8.00	1,680
	Sept.11, 1954	8.50	1,910		Aug. 10, 1960	6.43	820
					Sept.12, 1960	8.23	1,900
1955	Nov. 3, 1954	6.65	970		Sept.20, 1960	7.22	1,160

a Backwater from ice.

1990. Housatonic River at Falls Village, Conn.

Location.--Lat 41°56'56", long 73°22'05", on left bank 0.6 mile downstream from hydroelectric plant of Connecticut Power Co. at Falls Village, Litchfield County, 2 miles downstream from Hollenbeck River, and at mile 75.3.

Drainage area.--Area, 632 sq mi. Area of lakes, reservoirs, and ponds, 9.71 sq mi. Length of main stream, 79.8 miles. Average slope above gage, 8.28 ft per mile. Average tributary slope, 79.8 ft per mile. Average land slope, 543 ft per mile. Stream density, 1.35 miles per square mile. Mean altitude of basin, 1,264 ft.

Gage.--Recording. Datum of gage is 522.34 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

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

Remarks.--Flood records affected by regulation less than 5 percent. Discharge figures which have no corresponding stages from 1913 to 1929 are daily mean discharges given in lieu of peak discharges since no gage-height record is available. Corresponding peak discharges may be from 2 percent to 5 percent greater than listed figures. Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 16, 1913	-	3,900	1916	Apr. 3, 1916	11.45	6,960
	Mar. 29, 1913	-	8,110		Apr. 16, 1916	-	4,360
	Apr. 14, 1913	-	4,240				
				1917	Feb. 27, 1917	a8.0	-
1914	Oct. 27, 1913	-	4,510		Mar. 29, 1917	10.40	6,000
	Mar. 29, 1914	13.3	8,830				
	Apr. 10, 1914	-	5,680	1918	Feb. 26, 1918	a9.6	-
	Apr. 22, 1914	-	4,280		Feb. 28, 1918	-	3,500
					Mar. 23, 1918	8.22	4,220
1915	Feb. 17, 1915	-	3,960				
	Feb. 26, 1915	-	5,850	1919	Mar. 2, 1919	7.65	3,760
	July 10, 1915	-	4,480		Mar. 28, 1919	8.34	4,320
					May 24, 1919	7.35	3,570
1916	Dec. 28, 1915	-	5,670				
	Jan. 29, 1916	-	4,770	1920	Mar. 19, 1920	11.1	-

a Backwater from ice.

Peak stages and discharges of Housatonic River at Falls Village, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 21, 1920	-	4,000
	Mar. 29, 1920	12.44	7,950
	Apr. 15, 1920	9.65	5,320
	Apr. 24, 1920	7.78	3,910
	Apr. 29, 1920	7.7	3,840
	Aug. 17, 1920	7.5	3,680
1921	Oct. 2, 1920	9.1	4,910
	Dec. 7, 1920	8.6	4,510
	Dec. 16, 1920	-	4,700
	Mar. 11, 1921	9.8	5,490
	Apr. 2, 1921	7.92	3,980
	Apr. 19, 1921	7.75	3,910
1922	Mar. 9, 1922	9.5	5,230
	Mar. 31, 1922	9.05	4,910
	Apr. 10, 1922	8.4	4,320
	May 6, 1922	7.75	3,840
1923	Mar. 25, 1923	9.75	5,490
	Apr. 6, 1923	9.9	5,570
1924	Oct. 25, 1923	7 66	3,840
	Jan. 12, 1924	8.5	4,440
	Apr. 7, 1924	12.86	8,390
1925	Feb. 12, 1925	11.78	7,410
	Mar. 29, 1925	7.5	3,680
1926	Jan. 19, 1926	7.44	3,610
	Apr. 11, 1926	8.32	4,370
	Apr. 26, 1926	8.16	4,270
1927	Mar. 17, 1927	9.74	5,500
1928	Oct. 14, 1927	7.60	3,790
	Nov. 5, 1927	15.7	11,700
	Nov. 19, 1927	8.41	4,430
	Dec. 9, 1927	8.34	4,350
	Dec. 15, 1927	7.90	4,030
	July 29, 1928	8.60	4,590
	Aug. 27, 1928	9.24	5,120
1929	Mar. 17, 1929	11.1	6,850
	Apr. 23, 1929	-	5,660
1930	June 11, 1930	6.40	2,890
1931	May 30, 1931	8.44	4,320
	June 11, 1931	8.19	4,160
1932	Apr. 3, 1932	9.55	5,290
	Apr.13,14, 1932	9.52	5,200
	June 17, 1932	8.69	4,560
1933	Nov. 20, 1932	10.2	5,830
	Apr. 5, 1933	9.75	5,470
	Apr. 19, 1933	9.87	5,560
	Sept.18, 1933	12.65	8,160
1934	Mar. 5, 1934	b11.0	5,400
	Apr. 4, 1934	8.59	4,480
	Apr. 15, 1934	7.50	3,650
1935	Dec. 4, 1934	7.30	3,510
	Jan. 12, 1935	8.7	4,560
1936	Mar. 13, 1936	16.05	12,500
	Mar. 20, 1936	17.41	14,500
	Apr. 8, 1936	8.51	4,530
1937	Jan. 26, 1937	8.08	4,210
	Apr. 8, 1937	7.37	3,700
	Apr.17,18,1937	7.45	3,700
	May 15, 1937	9.83	5,520
1938	Oct. 21, 1937	7.93	3,930
	Jan. 25, 1938	11.6	7,200
	June 28, 1938	-	4,500
1938	July 25, 1938	8.72	4,580
	Sept.23, 1938	20.7	19,900
1939	Dec.7,8, 1938	12.1	7,700
	Apr. 3, 1939	8.10	4,210
	Apr.7,8, 1939	8.22	4,290
	Apr. 13, 1939	7.73	3,910
	Apr. 21, 1939	12.21	7,790
1940	Mar. 31, 1940	13.6	9,360
	Apr. 13, 1940	12.15	7,800
	Apr. 22, 1940	9.6	5,410
1941	Dec. 30, 1940	6.03	2,650
1942	Mar. 10, 1942	8.94	4,720
	Mar. 23, 1942	8.88	4,850
1943	Nov. 28, 1942	9.23	4,960
	Dec. 3, 1942	7.20	3,560
	Dec. 31, 1942	8.40	4,450
	Mar. 21, 1943	9.05	4,930
	May 22, 1943	7.38	3,700
	May 27, 1943	7.31	3,630
1944	Nov. 10, 1943	7.98	4,000
	Mar. 25, 1944	7.43	3,700
	Apr. 26, 1944	7.98	4,000
1945	Jan. 2, 1945	a8.1	-
	Mar. 7, 1945	a8.43	-
	Mar. 22, 1945	10.5	6,100
	Apr. 6, 1945	7.32	3,630
	Apr. 28, 1945	8.56	4,610
	May 12, 1945	7.8	3,980
	May 20, 1945	8.47	4,530
	June 23, 1945	7.30	3,630
	July 24, 1945	8.73	4,690
	July 30, 1945	9.95	5,750
1946	Jan. 9, 1946	a9.02	-
	Jan. 9, 1946	-	4,500
	Mar. 10, 1946	9.79	5,570
	May 29, 1946	7.33	3,630
1947	Mar. 16, 1947	9.88	5,660
	Apr. 8, 1947	10.1	5,840
1948	Mar. 23, 1948	14.2	10,100
	May 27, 1948	7.80	3,980
1949	Jan. 1, 1949	22.9	23,900
	Jan. 6, 1949	12.5	8,120
	Feb. 17, 1949	7.7	3,700
1950	Mar. 30, 1950	7.81	3,790
	Apr. 6, 1950	7.83	3,790
1951	Nov. 26, 1950	11.02	6,570
	Feb. 22, 1951	7.92	3,870
	Apr. 4, 1951	11.68	7,270
1952	Nov. 4, 1951	7.97	3,950
	Nov. 8, 1951	7.72	3,720
	Jan. 28, 1952	9.28	5,000
	Apr. 7, 1952	11.58	7,170
	June 2, 1952	10.80	6,370
1953	Dec. 12, 1952	7.56	3,650
	Jan. 25, 1953	10.98	6,650
	Mar. 16, 1953	10.68	6,380
	Mar. 27, 1953	12.18	7,800
	Apr. 8, 1953	8.00	4,130
	May 3, 1953	8.05	4,130
1954	Mar. 4, 1954	7.48	3,770
	Apr. 18, 1954	8.63	4,610
	Sept.12, 1954	10.0	5,750

a Backwater from ice.
b Occurred Mar. 6, 1934; backwater from ice.

Peak stages and discharges of Housatonic River at Falls Village, Corn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 21, 1954	8.78	4,770	1958	Dec. 21, 1957	9.33	5,140
	Dec. 19, 1954	8.26	4,370		Apr. 8, 1958	10.56	6,290
	Apr. 30, 1955	7.57	3,840		Apr. 30, 1958	8.08	4,180
	Aug. 19, 1955	22.84	22,700				
				1959	Jan. 22, 1959	-	4,000
1956	Oct. 16, 1955	13.2	8,940		Mar. 7, 1959	10.10	5,840
	Oct. 31, 1955	8.61	4,620		Apr. 3, 1959	9.12	4,980
	Nov. 5, 1955	9.75	5,570				
	Nov. 12, 1955	7.84	3,940	1960	Nov. 29, 1959	7.90	4,020
	Nov. 17, 1955	8.28	4,340		Dec. 14, 1959	7.52	3,700
	Apr. 7, 1956	9.96	5,750		Jan. 4, 1960	9.19	5,060
	Apr. 18, 1956	12.96	8,700		Feb. 12, 1960	9.74	5,480
	Apr. 30, 1956	11.13	6,740		Apr. 6, 1960	16.00	12,400
					Sept.13, 1960	7.55	3,780
1957	Jan. 24, 1957	a8.08	-				
	Jan. 24, 1957	8.00	3,350				

a Backwater from ice.
Note.--Discharges for period 1913-29 with no gage height indicated are daily means.

2000. Tenmile River near Gaylordsville, Conn.

Location.--Lat 41°39'32", long 73°31'44", on right bank 0.1 mile downstream from Deuel Hollow Brook, 1.2 miles upstream from Connecticut-New York State line.

Drainage area.--Area, 204 sq mi. Area of lakes, reservoirs, and ponds, 1.75 sq mi. Length of main stream, 34.5 miles. Average slope above gage, 15.0 ft per mile. Average tributary slope, 113 ft per mile. Average land slope, 587 ft per mile. Stream density, 1.34 miles per square mile. Mean altitude of basin, 849 ft.

Gage.--Recording. Datum of gage is 304.4 ft above mean sea level, datum of 1929 (levels by Connecticut Light & Power Co).

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

Remarks.--Flood records not affected by regulation. 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)
1930	Mar. 9, 1930	3.92	980	1938	June 28, 1938	5.48	2,010
					July 22, 1938	8.79	5,660
1931	Feb. 19, 1931	a5.00	-		Aug. 12, 1938	5.82	2,380
	Mar. 30, 1931	4.92	1,590		Sept.22, 1938	12.77	12,500
	June 17, 1931	5.52	1,980				
				1939	Dec. 6, 1938	6.29	2,630
1932	Apr. 1, 1932	4.82	1,530		Feb. 16, 1939	5.40	1,940
	Apr. 12, 1932	5.55	2,050		Feb. 21, 1939	4.84	1,560
					Mar. 1, 1939	5.27	1,870
1933	Nov. 20, 1932	7.07	3,090		Apr. 2, 1939	4.88	1,590
	Apr. 18, 1933	5.09	1,730		Apr. 20, 1939	4.91	1,590
	Sept.16, 1933	4.86	1,560				
				1940	Jan. 15, 1940	a4.70	-
1934	Jan. 8, 1934	4.84	1,560		Mar. 15, 1940	5.33	1,950
	Jan. 23, 1934	4.81	1,530		Mar. 21, 1940	4.59	1,410
	Mar. 5, 1934	-	b4,000		Mar. 31, 1940	8.46	5,280
					Apr. 9, 1940	5.26	1,910
1935	Jan. 10, 1935	5.04	1,580		Apr. 13, 1940	4.98	1,710
	Feb. 26, 1935	4.87	1,560				
				1941	Feb. 8, 1941	a5.90	-
1936	Jan. 16, 1936	4.65	1,440		Feb. 8, 1941	5.77	2,370
	Mar. 12, 1936	11.61	10,200				
	Mar. 19, 1936	8.62	5,440	1942	Mar. 4, 1942	4.73	1,500
	Apr. 6, 1936	-	b1,660		Mar. 22, 1942	4.83	1,600
1937	Dec. 20, 1936	5.05	1,700	1943	Nov. 26, 1942	5.43	2,110
	Jan. 25, 1937	5.45	2,080		Dec. 31, 1942	6.00	2,640
	May 15, 1937	5.08	1,730		Feb. 24, 1943	5.00	1,710
	June 22, 1937	5.05	1,700				
				1944	Nov. 9, 1943	4.83	1,560
1938	Jan. 25, 1938	9.13	6,120		Feb. 15, 1944	a4.79	-

a Backwater from ice.
b Estimated.

Peak stages and discharges of Tenmile River near Gaylordsville, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Mar. 7, 1944	5.83	2,230	1952	Apr. 6, 1952	7.19	3,450
	Mar. 24, 1944	6.08	2,640		Apr. 16, 1952	4.58	1,410
					June 1, 1952	5.80	2,230
1945	Jan. 1, 1945	5.16	1,830		June 4, 1952	4.81	1,530
	Feb. 27, 1945	a5.17	-				
	Mar. 4, 1945	5.32	1,950	1953	Dec. 11, 1952	5.74	2,150
	Mar. 7, 1945	5.24	1,910		Jan. 25, 1953	8.66	5,390
	Mar. 18, 1945	4.91	1,640		Mar. 14, 1953	5.10	1,730
	Apr. 26, 1945	4.67	1,500		Mar. 16, 1953	5.65	2,080
	May 19, 1945	4.84	1,600		Mar. 27, 1953	5.90	2,310
	June 19, 1945	4.61	1,410		Apr. 8, 1953	4.78	1,530
1946	Jan. 7, 1946	4.26	1,210	1954	Sept.11, 1954	5.36	1,900
1947	Mar. 15, 1947	7.85	4,410	1955	Feb. 7, 1955	6.34	2,630
					Aug. 19, 1955	14.9	17,400
1948	Feb. 20, 1948	a6.15	-				
	Mar. 17, 1948	6.50	3,010	1956	Oct. 16, 1955	10.95	9,620
	Mar. 22, 1948	6.82	3,310		Oct. 31, 1955	-	b1,800
					Nov. 5, 1955	-	b2,700
1949	Jan. 1, 1949	9.30	6,360		Apr. 6, 1956	6.72	3,510
	Jan. 6, 1949	7.7	4,290				
				1957	Apr. 6, 1957	4.28	1,300
1950	Mar. 9, 1950	4.58	1,410				
				1958	Dec. 21, 1957	5.15	1,940
1951	Nov. 26, 1950	4.86	1,560		Apr. 7, 1958	6.25	2,960
	Feb. 7, 1951	5.97	2,390				
	Feb. 18, 1951	5.06	1,700	1959	Jan. 22, 1959	7.70	4,720
	Feb. 22, 1951	4.96	1,620		Feb. 10, 1959	6.29	3,070
	Mar. 31, 1951	6.32	2,630		Mar. 6, 1959	5.94	2,650
	Apr. 4, 1951	6.10	2,470				
				1960	Jan. 4, 1960	5.47	2,220
1952	Nov. 7, 1951	4.61	1,410		Feb. 12, 1960	5.30	2,080
	Dec. 22, 1951	4.87	1,560		Apr. 1, 1960	5.25	2,040
	Jan. 27, 1952	5.15	1,760		Apr. 5, 1960	6.66	3,510
	Mar. 12, 1952	5.94	2,310				

a Backwater from ice.
b Estimated.

2005. Housatonic River at Gaylordsville, Conn.

Location.--Lat 41°39'11", long 72°29'25", on left bank 0.4 mile downstream from Bulls Bridge hydroelectric plant of Connecticut Light & Power Co., 0.5 mile upstream from bridge on U.S. Highway 7 at Gaylordsville, Litchfield County, 1½ miles downstream from Tenmile River, and at mile 50.6.

Drainage area.--Area, 994 sq mi. Area of lakes, reservoirs, and ponds, 13.3 sq mi. Length of main stream, 106 miles. Average slope above gage, 7.65 ft per mile.

Gage.--Nonrecording at site 0.6 mile downstream at different datum October 1900 to November 1914; recording at present site and datum since July 1940. Datum of gage is 236.78 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 28,000 cfs at present site; below 13,600 cfs at former site; both curves extended above by logarithmic plotting.

Historical data.--Flood of May 1854 reached a stage of 21 ft 3 in., former site and datum; reported by observer in 1902.

Remarks.--Flood records affected by regulation less than 5 percent. All stages are recorded stages. For period October 1900 to November 1914, values given are the maximum of once- or twice-daily gage readings and may be up to 15 percent smaller than momentary peaks. For period March 1928 to July 1940, stages and discharges are computed from tailrace readings at the Bulls Bridge hydroelectric plant 0.4 miles upstream, furnished by the Connecticut Light & Power Co. Discharges for the April 1924, November 1927 and September 1938 floods are based on flow-over-dam measurements at site 2½ miles upstream, adjusted for flow from intervening area. Base for partial-duration series, 4,500 cfs.

Peak stages and discharges of Housatonic River at Gaylordsville, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1854	May 1854	21.2	-
1901	Mar. 11, 1901	8.2	9,340
	Mar. 21, 1901	11.2	17,700
	Apr. 8, 1901	8.3	9,610
	Apr. 22, 1901	9.3	12,300
	May 29, 1901	6.9	5,930
	Aug. 25, 1901	6.8	5,690
1902	Dec. 15, 1901	8.9	11,200
	Dec. 30, 1901	9.4	12,600
	Jan. 22, 1902	8.5	10,200
	Feb. 27, 1902	a10.6	-
	Mar. 1, 1902	14.3	31,000
	Mar. 14, 1902	8.0	8,800
	Apr. 1, 1902	6.8	5,690
	Apr. 11, 1902	6.9	5,930
	May 1, 1902	6.8	5,690
1903	Dec. 17, 1902	8.0	8,800
	Dec. 22, 1902	8.8	11,000
	Feb. 5, 1903	7.5	7,470
	Feb. 21, 1903	a13.2	-
	Mar. 1, 1903	9.3	12,300
	Mar. 9, 1903	7.7	7,990
	Mar. 24, 1903	8.8	11,000
	Apr. 9, 1903	7.4	7,210
	June 16, 1903	7.6	7,730
	June 22, 1903	8.5	10,200
	July 1, 1903	6.9	5,930
1904	Oct. 9, 1903	9.5	12,900
	Dec. 21, 1903	8.2	9,340
	Jan. 25, 1904	a9.5	-
	Feb. 11, 1904	a8.5	-
	Feb. 23, 1904	a9.0	-
	Mar. 8, 1904	9.4	12,600
	Mar. 27, 1904	7.6	7,730
	Apr. 2, 1904	6.8	5,690
	June 10, 1904	7.5	7,470
	Sept.15, 1904	7.4	7,210
1905	Jan. 7, 1905	9.8	13,700
	Mar. 20, 1905	7.3	6,950
	Mar. 27, 1905	9.2	12,100
	Sept. 5, 1905	6.9	5,930
1906	Mar. 4, 1906	8.6	10,400
	Mar. 28, 1906	7.3	6,950
	Apr. 16, 1906	8.1	9,070
1907	Sept.24, 1907	7.2	6,690
1908	Oct. 30, 1907	10.9	16,900
	Nov. 8, 1907	7.9	8,530
	Dec. 12, 1907	6.8	5,690
	Dec. 24, 1907	6.8	5,690
	Jan. 14, 1908	7.1	6,430
	Feb. 16, 1908	9.4	12,600
1909	Feb. 20, 1909	9.0	11,500
	Mar. 26, 1909	7.0	6,180
	Apr. 15, 1909	8.1	9,070
1910	Jan. 22, 1910	a11.6	-
	Jan. 23, 1910	8.0	8,800
	Mar. 2, 1910	9.6	13,200
	Apr. 27, 1910	6.8	5,690
1911	Mar. 30, 1911	7.9	8,530
1912	Oct. 19, 1911	7.7	7,990
	Oct. 23, 1911	7.9	8,530
	Feb. 22, 1912	9.0	11,500
	Feb. 27, 1912	7.5	7,470
	Mar. 13, 1912	8.8	11,000
	Mar. 16, 1912	9.2	12,100
	Mar. 30, 1912	7.8	8,260
	Apr. 9, 1912	7.5	7,470
	Apr. 19, 1912	7.1	6,430
1913	Jan. 12, 1913	6.8	5,690
	Mar. 16, 1913	7.0	6,180
	Mar. 28, 1913	9.6	13,200
	Apr. 13, 1913	7.3	6,950
1914	Oct. 27, 1913	7.8	8,260
	Mar. 18, 1914	6.9	5,930
	Mar. 29, 1914	10.2	14,900
	Apr. 11, 1914	8.0	8,800
	Apr. 23, 1914	7.3	6,950
	May 6, 1914	7.0	6,180
1924	Apr.7-8, 1924	10.2	16,000
1928	Nov. 4, 1927	11.5	21,000
	July 28, 1928	6.8	6,300
	Aug. 27, 1928	7.6	8,200
1929	Mar. 17, 1929	8.0	9,100
	Apr. 18, 1929	6.7	6,100
	Apr. 22, 1929	7.7	8,500
1930	Mar. 9, 1930	5.7	4,000
1931	Mar. 30, 1931	7.3	7,300
	Apr. 2, 1931	6.9	6,500
	June 10, 1931	7.1	7,000
1932	Apr. 1, 1932	7.5	7,900
	Apr. 13, 1932	7.3	7,500
1933	Nov. 20, 1932	8.6	10,800
	Apr. 5, 1933	7.4	7,700
	Apr. 18, 1933	7.8	8,600
1934	Mar. 5, 1934	9.3	13,000
	Apr. 2, 1934	6.8	6,300
1935	Jan. 11, 1935	7.3	7,500
1936	Mar. 13, 1936	12.6	26,000
	Mar. 19, 1936	11.5	21,000
	Apr. 7, 1936	7.0	6,800
1937	Jan. 26, 1937	7.0	6,800
	May 16, 1937	7.6	8,200
1938	Jan. 25, 1938	10.3	16,000
	June 28, 1938	7.5	7,900
	July 22, 1938	8.5	10,600
	Aug. 11, 1938	7.2	7,100
	Sept.22, 1938	14.5	37,000
1939	Dec. 6, 1938	8.8	10,300
	Apr. 3, 1939	7.4	7,100
	Apr. 7, 1939	7.0	6,300
	Apr. 21, 1939	8.7	10,000
1940	Apr. 1, 1940	10.6	15,000
	Apr. 9, 1940	9.1	11,000
	Apr. 13, 1940	9.0	10,800
	Apr. 21, 1940	7.8	7,900
1941	Feb. 7, 1941	a6.83	-
	Feb. 8, 1941	6.38	5,370
1942	Mar. 10, 1942	7.96	8,590
	Mar. 23, 1942	7.58	7,500
1943	Nov. 26, 1942	7.69	7,890
	Dec. 31, 1942	7.60	7,500
	Feb. 25, 1943	6.63	5,500
	Mar.20,21, 1943	7.34	6,870
1944	Nov. 10, 1943	6.73	5,690
	Mar. 7, 1944	6.63	5,500
	Mar. 24, 1944	7.43	7,210
	Apr. 25, 1944	6.94	6,070
1945	Jan. 2, 1945	6.59	5,500

a Backwater from ice.

Peak stages and discharges of Housatonic River at Gaylordsville, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 27, 1945	a6.75	-	1953	Mar. 16, 1953	8.69	10,100
	Mar. 8, 1945	7.30	6,870		Mar. 27, 1953	9.45	11,800
	Mar. 21, 1945	8.09	8,830		Apr. 8, 1953	7.11	6,570
	Apr. 26, 1945	7.17	6,670		Apr. 14, 1953	6.99	6,380
	May 12, 1945	6.65	5,500				
	May 20, 1945	7.52	7,290	1954	Mar. 4, 1954	6.60	5,630
	June 18, 1945	7.57	7,500		Apr. 18, 1954	7.05	6,380
	June 22, 1945	7.16	6,670		Sept.12, 1954	8.08	8,670
	July 24, 1945	6.65	5,500				
	July 30, 1945	7.54	7,290	1955	Nov. 21, 1954	7.37	7,170
					Dec. 19, 1954	7.26	6,970
1946	Jan. 8, 1946	7.13	6,470		Apr. 7, 1955	6.56	5,630
	Mar. 10, 1946	7.66	7,890		Apr. 29, 1955	6.96	6,380
					Aug. 19, 1955	18.58	51,800
1947	Mar. 15, 1947	9.02	10,800				
	Apr. 6, 1947	7.70	7,720	1956	Oct. 16, 1955	12.45	21,600
					Oct. 31, 1955	7.43	7,230
1948	Feb. 21, 1948	a8.65	-		Nov. 5, 1955	8.37	9,350
	Mar. 20, 1948	10.50	15,000		Nov. 16, 1955	7.15	6,770
	Mar. 22, 1948	10.98	16,500		Apr. 7, 1956	8.37	9,350
					Apr.17-18,1956	9.20	11,800
1949	Jan. 1, 1949	14.85	32,300		Apr. 30, 1956	8.31	9,120
	Jan. 6, 1949	10.70	15,600				
				1957	Jan. 23, 1957	a6.35	-
1950	Mar. 30, 1950	6.58	5,630		Apr. 7, 1957	6.25	4,930
1951	Nov. 26, 1950	8.55	9,820	1958	Dec. 21, 1957	7.83	8,010
	Feb. 7, 1951	7.42	7,170		Dec. 27, 1957	6.48	5,450
	Feb. 18, 1951	6.58	5,630		Apr. 7, 1958	8.80	10,300
	Feb. 22, 1951	7.18	6,770		Apr. 30, 1958	6.93	6,190
	Apr. 4, 1951	9.32	11,600				
				1959	Jan. 22, 1959	8.31	9,120
1952	Nov. 4, 1951	6.62	5,630		Feb. 10, 1959	6.65	5,630
	Nov. 8, 1951	6.70	5,310		Mar. 6, 1959	8.55	9,820
	Jan. 28, 1952	7.65	7,590		Mar. 22, 1959	6.33	5,100
	Mar. 13, 1952	7.24	6,770		Apr. 3, 1959	7.28	6,970
	Apr. 6, 1952	9.61	12,400				
	Apr. 15, 1952	6.78	6,000	1960	Nov. 29, 1959	6.41	5,270
	June 2, 1952	8.78	10,300		Dec. 13, 1959	6.49	5,450
					Jan. 4, 1960	7.57	7,590
1953	Dec. 12, 1952	7.27	6,970		Feb. 12, 1960	8.05	8,450
	Jan. 25, 1953	10.13	13,800		Apr. 5, 1960	11.17	17,100

a Backwater from ice.

2015. Still River near Lanesville, Conn.

Location.--Lat 41°31'12", long 73°25'07", on left bank at upstream side of highway bridge, a quarter of a mile east of U.S. Highway 7, 1.1 miles south of Lanesville, Litchfield County, 3 miles upstream from mouth, and 4 miles south of New Milford.

Drainage area.--Area, 68.5 sq mi. Area of lakes, reservoirs, and ponds, 1.42 sq mi. Length of main stream 19.8 miles. Average slope above gage, 15.3 ft per mile. Average tributary slope, 85.2 ft per mile. Average land slope, 487 ft per mile. Stream density, 1.81 miles per square mile. Mean altitude of basin, 568 ft.

Gage.--Recording. Datum of gage is 213.05 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above by logarithmic plotting.

Remarks.--Flood records not affected by regulation. Base for partial-duration series, 600 cfs.

Peak stages and discharges of Still River near Lanesville, Conn.

Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 29, 1932	6.83	605
1933	Nov. 20, 1932	7.73	950
	Mar. 22, 1933	7.00	655
1934	Jan. 8, 1934	6.83	605
	Mar. 6, 1934	a9.40	-
	Mar. 6, 1934	7.2	730
	Apr. 1, 1934	7.22	730
	Sept.18, 1934	7.10	690
1935	Oct. 1, 1934	6.30	476
	Feb. 17, 1935	a6.92	-
1936	Mar. 12, 1936	10.58	3,260
	Mar. 19, 1936	7.93	1,020
1937	Dec. 21, 1936	7.17	710
	Jan. 26, 1937	6.89	620
	Sept.15, 1937	7.00	655
1938	Oct. 21, 1937	7.33	790
	Nov. 15, 1937	6.89	620
	Jan. 8, 1938	6.93	638
	Jan. 25, 1938	9.52	2,450
	July 24, 1938	7.64	920
	Aug. 12, 1938	8.15	1,220
	Sept.22, 1938	10.88	3,590
1939	Dec. 7, 1938	7.31	770
	Jan. 7, 1939	7.0	655
	Apr. 3, 1939	7.17	710
1940	Jan. 16, 1940	8.05	1,120
	Mar. 15, 1940	8.79	1,730
	Apr. 9, 1940	7.02	655
	June 1, 1940	7.32	770
1941	Feb. 8, 1941	10.47	3,180
1942	Mar. 4, 1942	7.25	730
	Mar. 10, 1942	7.01	655
1943	Dec. 31, 1942	a7.83	-
	Dec. 31, 1942	7.4	810
	June 3, 1943	7.47	850
1944	Feb. 16, 1944	a7.79	-
	Feb. 16, 1944	7.1	690
	Mar. 8, 1944	7.53	875
	Mar. 14, 1944	7.12	690
	Mar. 25, 1944	6.83	605
	Apr. 25, 1944	7.24	730
	Sept.16, 1944	7.33	765
1945	Jan. 2, 1945	7.3	745
	Feb. 28, 1945	8.03	1,110
	Mar. 4, 1945	7.07	625
	July 20, 1945	7.36	785
1946	Dec. 27, 1945	a7.89	-
	Dec. 27, 1945	7.1	620
	May 28, 1946	7.21	660
1947	Oct. 1, 1946	7.25	680
	Mar. 15, 1947	7.54	825
1948	Nov. 9, 1947	7.22	660
	Nov. 13, 1947	7.70	910
	Mar. 20, 1948	8.0	1,100
	Apr. 2, 1948	7.15	640
1949	Jan. 1, 1949	8.00	1,110
	Jan. 7, 1949	7.46	805
1950	July 12, 1950	6.67	528
1951	Feb. 9, 1951	7.79	990
	Feb. 23, 1951	6.88	600
	Mar. 31, 1951	7.95	1,080
	Apr. 4, 1951	7.54	855
1952	Dec. 22, 1951	8.09	1,180
	Jan. 27, 1952	7.07	645
	Mar. 12, 1952	8.76	1,680
	Apr. 6, 1952	8.40	1,400
	Apr. 29, 1952	7.29	740
	June 2, 1952	8.46	1,440
	July 11, 1952	6.97	665
1953	Nov. 23, 1952	6.98	680
	Dec. 12, 1952	8.38	1,420
	Jan. 25, 1953	8.34	1,380
	Mar. 14, 1953	7.99	1,160
	Mar. 16, 1953	7.69	990
	Mar. 25, 1953	7.71	990
	Apr. 8, 1953	7.05	700
	Apr. 15, 1953	6.78	620
1954	Apr. 19, 1954	6.68	590
1955	Nov. 4, 1954	7.12	645
	Nov. 21, 1954	7.66	912
	Aug. 15, 1955	8.37	1,360
	Aug. 19, 1955	11.18	3,920
1956	Oct. 16, 1955	14.11	7,980
	Oct. 31, 1955	8.13	1,200
	Nov. 5, 1955	8.88	1,740
1957	Apr. 7, 1957	7.07	627
1958	Dec. 22, 1957	7.47	805
	Dec. 27, 1957	7.71	940
	Jan. 23, 1958	7.59	885
	Jan. 26, 1958	7.43	802
	Feb. 28, 1958	8.71	1,590
	Apr. 7, 1958	7.18	675
1959	Oct. 27, 1958	7.16	655
	Mar. 7, 1959	8.11	1,180
1960	Jan. 4, 1960	7.05	615
	Feb. 12, 1960	7.29	725
	Apr. 6, 1960	7.10	635
	Sept.13, 1960	7.13	655

a Backwater from ice.

2025. Shepaug River at Woodville, Conn.

Location.--Lat 41°43'24", long 73°17'37", at left end of dam at outlet of Shepaug Reservoir, 1 mile north of Woodville, Litchfield County, and 3.5 miles upstream from Bantam River.

Drainage area.--38.0 sq mi.

Gage.--Nonrecording.

Remarks.--Discharge computed on basis of flow over spillway, through floodgates, and through fountain at toe of dam. Flow regulated since September 1933 by Shepaug Reservoir (usable capacity, 77,000,000 cu ft). Records furnished by Bureau of Engineering, city of Waterbury, Conn. 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)
1936	Mar. 12, 1936	-	4,070	1949	Dec. 31, 1948	-	5,160
1937	May 15, 1937	-	1,500	1950	Mar. 9, 1950	-	1,000
1938	Sept.21, 1938	-	6,000				
1939	Dec. 6, 1938	-	1,280	1951	Mar. 31, 1951	-	2,500
1940	Apr. 8, 1940	-	1,500	1952	June 1, 1952	-	2,400
				1953	Jan. 24, 1953	-	1,890
1941	Feb. 7, 1941	-	1,150	1954	Apr. 17, 1954	-	800
1942	Mar. 9, 1942	-	2,050	1955	Aug. 19, 1955	-	13,800
1943	Dec. 30, 1942	-	880				
1944	Nov. 9, 1943	-	1,100	1956	Oct. 16, 1955	-	3,900
1945	Apr. 26, 1945	-	1,300	1957	Jan. 23, 1957	-	709
				1958	Dec. 21, 1957	-	1,810
1946	Mar. 9, 1946	-	753	1959	Mar. 6, 1959	-	1,460
1947	Mar. 14, 1947	-	1,470	1960	Mar. 31, 1960	-	2,040
1948	Mar. 22, 1948	-	1,500				

2030. Shepaug River near Roxbury, Conn.

Location.--Lat 41°32'59", long 73°19'49", on right bank downstream side of Wellers highway bridge on Wellers Bridge road, half a mile south of Roxbury Station, 1¼ miles southwest of village of Roxbury, Litchfield County, and 2.4 miles upstream from Jack's Brook.

Drainage area.--Area, 133 sq mi. Area of lakes, reservoirs, and ponds, 2.38 sq mi. Length of main stream, 27.6 miles. Average slope above gage, 34.0 ft per mile. Average tributary slope, 88.0 ft per mile. Average land slope, 465 ft per mile. Stream density, 1.98 miles per square mile. Mean altitude of basin, 1,029 ft.

Gage.--Recording. Datum of gage is 281.98 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above on basis of flow-over-dam measurements at 7,480 and 10,500 cfs and slope-area measurement at 50,300 cfs.

Remarks.--Flood records not affected by regulation. 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)
1931	Mar. 29, 1931	5.40	1,620	1935	Jan. 10, 1935	8.11	4,000
	June 10, 1931	4.97	1,300		Mar. 6, 1935	5.26	1,520
	June 16, 1931	6.78	2,720				
				1936	Jan. 3, 1936	a5.39	-
1932	Apr. 1, 1932	4.8	1,210		Mar. 12, 1936	10.77	7,480
					Mar. 18, 1936	9.75	5,750
1933	Nov. 10, 1932	5.62	1,760		Apr. 6, 1936	6.2	2,220
	Nov. 19, 1932	7.83	3,650				
				1937	Dec. 20, 1936	5.88	1,980
1934	Jan. 23, 1934	5.30	1,550		Jan. 25, 1937	5.53	1,720
	Mar. 5, 1934	8.3	4,150		May 15, 1937	6.44	2,420
	Sept.17, 1934	6.60	2,540				
				1938	Oct. 20, 1937	7.76	3,670
1935	Nov. 6, 1934	6.20	2,220		Nov. 14, 1937	5.25	1,520

a Backwater from ice.

Peak stages and discharges of Shepaug River near Roxbury, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Nov. 29, 1937	5.46	1,660
	Jan. 25, 1938	9.22	5,340
	June 12, 1938	5.47	1,660
	July 21, 1938	7.73	3,600
	July 23, 1938	6.90	2,810
	July 28, 1938	7.09	2,980
	Aug. 11, 1938	6.80	2,720
	Sept.21, 1938	12.8	10,500
1939	Dec. 6, 1938	6.82	2,920
	Apr. 2, 1939	5.81	2,090
	Apr. 6, 1939	5.20	1,650
1940	Jan. 15, 1940	a7.54	-
	Jan. 15, 1940	5.4	1,770
	Mar. 15, 1940	a5.39	-
	Mar. 31, 1940	6.70	2,830
	Apr. 9, 1940	7.10	3,190
	Apr. 13, 1940	6.06	2,330
1941	Feb. 7, 1941	7.06	3,190
1942	Feb. 1, 1942	5.46	1,810
	Mar. 3, 1942	5.35	1,730
	Mar. 9, 1942	6.71	2,830
	Mar. 22, 1942	5.81	2,090
1943	Dec. 30 or 31, 1942	7.37	3,470
	May 26, 1943	5.75	2,050
1944	Feb. 15, 1944	a6.05	-
	Mar. 7, 1944	a7.72	-
	Mar. 7, 1944	5.83	2,090
	Mar. 13, 1944	5.06	1,500
	Apr. 24, 1944	5.41	1,770
1945	Jan. 1, 1945	a6.94	-
	Jan. 1, 1945	6.1	2,330
	Feb. 27, 1945	a5.84	-
	Mar. 18, 1945	5.15	1,570
	Apr. 26, 1945	6.03	2,250
	May 18, 1945	5.15	1,570
	June 22, 1945	5.99	2,250
1946	Mar. 9, 1946	4.84	1,360
1947	Mar. 14, 1947	6.11	2,330
1948	Mar. 17, 1948	a6.27	-
	Mar. 20, 1948	6.57	2,740
	Mar. 22, 1948	7.00	3,100
	June 24, 1948	5.34	1,730
1949	Dec. 31, 1948	10.42	7,010
	Jan. 6, 1949	8.82	4,990
1950	Mar. 8, 1950	5.66	1,970
1951	Nov. 26, 1950	7.24	3,280
	Feb. 7, 1951	6.87	3,010
	Feb. 17, 1951	5.32	1,690
	Feb. 22, 1951	5.18	1,610
	Mar. 31, 1951	7.94	3,980
	Apr. 3, 1951	6.42	2,570
1952	Dec. 21, 1951	6.17	2,410
	Jan. 27, 1952	5.84	2,130
	Mar. 11, 1952	5.66	1,970
	Apr. 5, 1952	7.00	3,100
	June 1, 1952	8.91	5,080
	Aug. 16, 1952	6.02	2,250
1953	Dec. 11, 1952	6.27	2,490
	Jan. 24, 1953	8.35	4,530
	Mar. 13, 1953	7.96	4,090
	Mar. 16, 1953	7.62	3,670
	Mar. 24, 1953	6.51	2,650
	Mar. 27, 1953	6.41	2,570
	Apr. 8, 1953	5.27	1,650
	Apr. 14, 1953	5.16	1,570
1954	Dec. 14, 1953	5.04	1,500
	Apr. 17, 1954	5.25	1,650
	Sept.11, 1954	5.85	2,130
1955	Nov. 21, 1954	6.57	2,740
	Dec. 18, 1954	5.53	1,890
	Aug. 14, 1955	7.17	3,250
	Aug. 19, 1955	17.2	50,300
1956	Oct. 16, 1955	11.51	7,760
	Oct. 31, 1955	7.13	1,540
	Nov. 5, 1955	8.7	2,930
1957	Apr. 6, 1957	4.52	1,240
1958	Dec. 21, 1957	6.35	2,560
	Dec. 27, 1957	5.41	1,800
	Apr. 7, 1958	6.25	2,400
1959	Oct. 26, 1958	4.76	1,390
	Jan. 22, 1959	4.82	1,420
	Feb. 10, 1959	6.12	2,320
	Mar. 6, 1959	6.85	2,920
	Apr. 3, 1959	5.17	1,630
1960	Jan. 3, 1960	5.34	1,760
	Feb. 11, 1960	6.38	2,560
	Mar. 31, 1960	5.96	2,240
	Apr. 5, 1960	6.55	2,740
	June 4, 1960	5.55	1,940

a Backwater from ice.

2040. Pomperaug River at Southbury, Conn.

Location.--Lat 41°28'50", long 73°13'30", on right bank 200 ft upstream from highway bridge, 800 ft downstream from Bullet Hill Brook, 0.6 mile west of Southbury, New Haven County, and 5.8 miles upstream from mouth.

Drainage area.--Area, 75.3 sq mi. Area of lakes, reservoirs, and ponds, 0.49 sq mi. Length of main stream, 17.0 miles. Average slope above gage, 48.0 ft per mile. Average tributary slope, 153 ft per mile. Average land slope, 474 ft per mile. Stream density, 2.29 miles per square mile. Mean altitude of basin, 685 ft.

Gage.--Recording. Datum of gage is 165.60 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of flow-over-dam measurement at 7,420 cfs and slope-area measurement at 29,400 cfs.

Remarks.--Flood records not affected by regulation. All stages are recorded stages unless indicated, but above 11.5 ft small intake drawdown is eliminated when water has access to well through ventilators and door opening. Prior to water year 1940, intake lag was experienced on nearly all peaks, and adjustments up to 1 ft were necessary in estimating peak stages. 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)
1933	Nov. 10, 1932	9.2	2,620	1943	May 26, 1943	7.00	1,470
	Nov. 19, 1932	9.75	2,980				
	Mar. 21, 1933	7.3	1,520	1944	Feb. 15, 1944	7.32	1,620
					Mar. 7, 1944	8.56	2,340
1934	Jan. 8, 1934	7.0	1,350		Mar. 13, 1944	7.32	1,620
	Jan. 23, 1934	7.2	1,460		Mar. 24, 1944	7.01	1,470
	Mar. 5, 1934	9.0	2,500		Apr. 25, 1944	7.16	1,570
	Sept. 9, 1934	7.5	1,620		Sept.15, 1944	7.33	1,620
	Sept.17, 1934	13.2	5,300				
	Sept.30, 1934	7.30	1,520	1945	Jan. 1, 1945	10.32	3,340
					Feb. 27, 1945	6.98	1,470
1935	Nov. 6, 1934	7.12	1,400		Apr. 26, 1945	7.85	1,900
	Jan. 10, 1935	7.10	1,400				
	Mar. 6, 1935	7.4	1,570	1946	Sept.30, 1946	7.11	1,520
1936	Mar. 12, 1936	14.13	5,990	1947	Mar. 14, 1947	8.08	2,060
	Mar. 18, 1936	8.83	2,580				
	Apr. 6, 1936	7.1	1,400	1948	Nov. 12, 1947	7.41	1,680
					Mar. 16, 1948	7.14	1,520
1937	Dec. 20, 1936	8.5	2,200		Mar. 20, 1948	7.86	1,960
1938	Oct. 20, 1937	7.7	1,740	1949	Dec. 31, 1948	13.62	5,600
	Nov. 28, 1937	8.0	1,870		Jan. 6, 1949	10.77	3,650
	Jan. 7, 1938	7.2	1,460				
	Jan. 25, 1938	14.12	5,980	1950	Mar. 9, 1950	9.60	2,920
	July 21, 1938	7.7	1,750				
	July 23, 1938	7.5	1,650	1951	Nov. 26, 1950	7.23	1,570
	July 28, 1938	7.3	1,500		Feb. 7, 1951	10.05	3,160
	Aug. 11, 1938	8.3	2,080		Feb. 18, 1951	7.58	1,790
	Sept.21, 1938	16.00	7,420		Mar. 31, 1951	8.57	2,340
					Apr. 3, 1951	7.13	1,520
1939	Dec. 6, 1938	8.0	1,900				
	Feb. 15, 1939	8.1	2,000	1952	Dec. 21, 1951	7.70	1,840
	Feb. 26, 1939	7.3	1,520		Jan. 23, 1952	7.00	1,470
	Apr. 2, 1939	7.8	1,800		Jan. 26, 1952	6.89	1,420
	Apr. 7, 1939	7.1	1,460		Mar. 11, 1952	8.88	2,500
					Apr. 5, 1952	7.76	1,900
1940	Jan. 15, 1940	10.85	3,660		June 1, 1952	8.19	2,120
	Mar. 15, 1940	7.66	1,840		July 10, 1952	7.40	1,680
	Mar. 31, 1940	8.73	2,400		Aug. 16, 1952	8.6	2,340
	Apr. 9, 1940	8.53	2,300				
				1953	Dec. 11, 1952	7.63	1,790
1941	Feb. 8, 1941	14.10	5,960		Jan. 24, 1953	10.35	3,400
					Mar. 13, 1953	10.00	3,160
1942	Feb. 1, 1942	7.30	1,620		Mar. 16, 1953	8.85	2,450
	Feb. 17, 1942	6.90	1,420		Mar. 24, 1953	7.43	1,680
	Mar. 3, 1942	8.44	2,230		Mar. 26, 1953	7.19	1,570
	Mar. 9, 1942	7.85	1,900				
	Mar. 22, 1942	7.13	1,520	1954	Sept.11, 1954	7.55	1,790
	May 17, 1942	7.46	1,740				
				1955	Nov. 3, 1954	7.29	1,620
1943	Dec. 30, 1942	8.57	2,340		Nov. 21, 1954	7.59	1,790

Peak stages and discharges of Pomperaug River at Southbury, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 15, 1954	6.86	1,420	1958	Feb. 28, 1958	7.70	1,840
	Feb. 7, 1955	7.25	1,570		Apr. 6, 1958	7.21	1,570
	Aug. 14, 1955	9.65	2,950				
	Aug. 19, 1955	21.8	29,400	1959	Nov. 29, 1958	7.00	1,470
					Feb. 10, 1959	7.90	1,960
1956	Oct. 16, 1955	15.75	8,860		Mar. 6, 1959	8.67	2,400
	Oct. 31, 1955	-	1,500				
	Nov. 5, 1955	9.7	2,980	1960	Jan. 3, 1960	8.03	2,010
					Sept.12, 1960	7.03	1,470
1957	Jan. 23, 1957	6.26	1,100		Sept.20, 1960	6.88	1,420
1958	Dec. 26, 1957	7.20	1,570				

2055. Housatonic River at Stevenson, Conn.

Location.--Lat 41°23'05", long 73°10'05", on left bank in New Haven County, 0.2 mile downstream from dam of Connecticut Light & Power Co. at Stevenson, Fairfield County, 0.2 mile upstream from Eightmile Brook, and at mile 19.2.

Drainage area.--Area, 1,545 sq mi. Area of lakes, reservoirs, and ponds, 28.4 sq mi. Length of main stream, 137 miles. Average slope above gage, 8.26 ft per mile. Average tributary slope, 54.2 ft per mile. Average land slope, 557 ft per mile. Stream density, 1.57 miles per square mile. Mean altitude of basin, 981 ft.

Gage.--Recording. Datum of gage is 24.98 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 35,000 cfs and extended above on basis of slope-area measurements at 59,500 and 69,500 cfs and flow-over-dam measurements at Stevenson and Derby dams at 75,800 cfs.

Remarks.--Flood records only slightly affected by local regulation. Flow regulated by Lake Candlewood, Lake Zoar, and Shepaug Reservoir. Base for partial-duration series, 11,000 cfs. Only annual peaks are shown after 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 6, 1929	10.9	12,700	1940	Mar. 31, 1940	14.45	25,100
	Mar. 17, 1929	10.8	12,500		Apr. 9, 1940	13.0	19,500
	Apr. 22, 1929	10.7	12,200		Apr. 13, 1940	12.2	16,800
1930	Mar. 10, 1930	7.51	5,530	1941	Feb. 8, 1941	15.55	30,500
1931	June 10, 1931	10.4	11,500	1942	Mar. 9, 1942	11.26	14,100
	June 17, 1931	10.9	12,700		Mar. 22, 1942	10.86	13,000
1932	Apr. 12, 1932	10.6	11,900	1943	Dec. 31, 1942	12.33	17,100
1933	Nov. 20, 1932	13.6	21,700	1944	Apr. 25, 1944	10.43	11,800
	Apr. 4, 1933	10.65	12,000				
	Apr. 18, 1933	11.2	13,500	1945	Jan. 2, 1945	11.39	14,400
					Mar. 21, 1945	10.2	11,300
1934	Mar. 5, 1934	14.7	26,400		May 20, 1945	10.18	11,700
					June 22, 1945	10.18	11,700
1935	Jan. 10, 1935	11.7	14,700				
				1946	Mar. 9, 1946	9.95	10,800
1936	Mar. 12, 1936	23.5	69,500				
	Mar. 18, 1936	16.86	36,300	1947	Mar. 15, 1947	11.50	14,700
1937	May 15, 1937	11.35	13,900	1948	Mar. 23, 1948	14.65	26,000
1938	Jan. 25, 1938	16.8	36,000	1949	Dec. 31, 1948	19.97	51,800
	July 24, 1938	12.84	18,700		Jan. 6, 1949	15.72	31,000
	Aug. 11, 1938	11.6	14,600				
	Sept.22, 1938	21.5	59,500	1950	Mar. 9, 1950	9.33	9,450
1939	Dec. 6, 1938	12.3	17,100	1951	Nov. 26, 1950	10.90	13,400
	Apr. 2, 1939	11.2	13,800		Feb. 8, 1951	11.96	16,600
	Apr. 22, 1939	10.6	12,300		Feb. 22, 1951	10.27	12,000

Peak stages and discharges of Housatonic River at Stevenson, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 31, 1951	13.12	20,200	1955	Nov. 21, 1954	10.64	12,700
	Apr. 3, 1951	13.26	21,000		Dec. 19, 1954	10.15	11,700
1952	Nov. 7, 1951	10.02	11,200		Aug. 19, 1955	23.43	69,400
	Dec. 21, 1951	10.63	12,700	1956	Oct. 16, 1955	24.50	75,800
	Jan. 28, 1952	10.60	12,700		Nov. 5, 1955	-	a22,000
	Mar. 12, 1952	11.40	14,800		Nov. 16, 1955	-	11,100
	Apr. 6, 1952	13.85	22,700		Apr. 7, 1956	-	a14,200
	June 2, 1952	13.54	21,600		Apr. 18, 1956	-	a14,500
1953	Dec. 12, 1952	11.18	14,200		May 1, 1956	-	a11,700
	Jan. 24, 1953	14.51	25,300	1957	Apr. 8, 1957	10.73	13,000
	Mar. 16, 1953	12.8	19,200	1958	Apr. 7, 1958	12.08	16,900
	Mar. 27, 1953	13.20	20,600	1959	Mar. 6, 1959	13.00	19,900
	Apr. 8, 1953	10.55	12,700	1960	Apr. 5, 1960	15.7	30,100
	Apr. 14, 1953	10.54	12,400				
1954	Sept.12, 1954	9.89	11,000				

a Daily mean discharge.

2060. Naugatuck River near Thomaston, Conn.

Location.--Lat 41°42'15", long 73°03'53", on right bank near downstream side of Twomile Bridge, 250 ft downstream from New York, New Haven and Hartford Railroad bridge, 0.4 mile upstream from Leadmine Brook, 2 miles north of Thomaston, Litchfield County, and at mile 31.

Drainage area.--Area, 71.9 sq mi. Area of lakes, reservoirs, and ponds, 1.37 sq mi. Length of main stream, 22.2 miles. Average slope above gage, 35.3 ft per mile. Average tributary slope, 175 ft per mile. Average land slope, 546 ft per mile. Stream density, 2.21 miles per square mile. Mean altitude of basin, 1,016 ft.

Gage.--Recording. Datum of gage is 389.44 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended above on basis of slope-area measurement at 41,600 cfs.

Remarks.--Flood records not affected by regulation. 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)
1931	Mar. 29, 1931	4.91	1,910	1937	Aug. 27, 1937	4.50	1,640
1932	Apr. 1, 1932	5.66	2,620	1938	Oct. 20, 1937	6.37	3,300
	Apr. 12, 1932	4.65	1,710		Nov. 14, 1937	4.65	1,760
1933	Nov. 10, 1932	5.66	2,620		Nov. 28, 1937	5.29	2,280
	Nov. 19, 1932	6.90	3,800		Jan. 25, 1938	9.57	6,830
1934	Jan. 7, 1934	a4.93	-		July 21, 1938	8.57	5,630
	Apr. 1, 1934	5.22	2,170		Aug. 11, 1938	5.01	2,040
	Apr. 12, 1934	4.5	1,590		Sept.21, 1938	11.89	9,970
	Sept.17, 1934	8.0	5,000	1939	Dec. 6, 1938	5.9	2,800
	Sept.30, 1934	4.9	1,900		Apr. 2, 1939	4.63	1,690
1935	Jan. 10, 1935	7.5	4,450		Aug. 21, 1939	6.16	3,100
1936	Mar. 12, 1936	9.37	6,590	1940	Jan. 15, 1940	5.16	2,160
	Mar. 18, 1936	8.95	6,090		Mar. 31, 1940	5.53	2,480
	Apr. 6, 1936	5.35	2,360		Apr. 9, 1940	7.1	4,010
1937	Dec. 20, 1936	5.36	2,360	1941	Feb. 8, 1941	5.20	2,160
	Feb. 22, 1937	5.10	2,120	1942	Mar. 9, 1942	7.05	3,900
	Apr. 6, 1937	4.42	1,560		Mar. 22, 1942	5.92	2,800
	May 15, 1937	6.14	3,050		May 17, 1942	5.50	2,430
	June 19, 1937	4.42	1,560		July 6, 1942	5.39	2,340
	June 22, 1937	4.62	1,720	1943	Nov. 25, 1942	5.00	1,980

a Backwater from ice.

Peak stages and discharges of Naugatuck River near Thomaston, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	5.13	2,120	1952	May 12, 1952	4.67	1,670
	May 26, 1943	5.70	2,610		June 1, 1952	6.33	3,200
					Sept. 1, 1952	5.09	2,070
1944	Mar. 7, 1944	5.06	2,020				
	Apr. 25, 1944	4.82	1,810	1953	Dec. 11, 1952	5.75	2,700
	Sept.15, 1944	5.00	1,980		Jan. 24, 1953	8.6	5,670
					Mar. 13, 1953	8.3	5,330
1945	Jan. 1, 1945	6.60	3,500		Mar. 16, 1953	7.5	4,450
	Apr. 26, 1945	7.54	4,450		Mar. 24, 1953	6.1	3,000
	June 21, 1945	5.64	2,520		Mar. 27, 1953	4.90	1,890
	July 18, 1945	4.49	1,570		Apr. 8, 1953	4.92	1,890
1946	Dec. 26, 1945	a4.46	-	1954	Apr. 18, 1954	5.00	1,980
	July 23, 1946	4.75	1,770		Sept.11, 1954	4.70	1,710
1947	Mar. 14, 1947	5.47	2,380	1955	Nov. 3, 1954	4.58	1,630
	Apr. 5, 1947	4.58	1,630		Nov. 21, 1954	5.36	2,300
					Dec. 14, 1954	4.80	1,800
1948	Nov. 12, 1947	4.8	1,800		Dec. 18, 1954	4.82	1,800
	Mar. 20, 1948	4.85	1,840		Feb. 7, 1955	4.83	1,840
	Mar. 22, 1948	5.77	2,700		Aug. 14, 1955	6.90	3,750
					Aug. 19, 1955	24.0	41,600
1949	Dec. 29, 1948	a4.50	-				
	Dec. 31, 1948	12.03	10,200	1956	Oct. 15, 1955	10.30	8,100
	Jan. 6, 1949	8.0	5,000		Oct. 30, 1955	7.97	4,960
	May 3, 1949	4.45	1,500		Nov. 5, 1955	6.69	3,570
					Apr. 16, 1956	4.60	1,770
1950	Mar. 9, 1950	4.4	1,470		Apr. 30, 1956	4.31	1,560
1951	Nov. 25, 1950	8.0	5,000	1957	Jan. 23, 1957	4.34	1,600
	Feb. 7, 1951	7.1	4,010				
	Mar. 31, 1951	8.04	5,000	1958	Dec. 21, 1957	5.65	2,550
	Apr. 3, 1951	5.32	2,250		Dec. 26, 1957	4.78	1,910
					Apr. 6, 1958	6.03	2,910
1952	Dec. 21, 1951	a4.70	-				
	Dec. 21, 1951	4.61	1,630	1959	Nov. 29, 1958	4.58	1,770
	Jan. 26, 1952	4.60	1,630		Mar. 6, 1959	7.00	3,870
	Mar. 11, 1952	4.87	1,840		Apr. 3, 1959	4.89	1,990
	Apr. 5, 1952	6.21	3,100				

a Backwater from ice.

2065. Leadmine Brook near Thomaston, Conn.

Location.--Lat 41°42'06", long 73°03'28", on left bank 10 ft downstream from highway bridge, 0.4 mile upstream from mouth, and 2¼ miles northeast of Thomaston, Litchfield County.

Drainage area.--Area, 24.0 sq mi. Area of lakes, reservoirs, and ponds, 0.16 sq mi. Length of main stream, 10.3 miles. Average slope above gage, 64.2 ft per mile. Average tributary slope, 147 ft per mile. Average land slope, 424 ft per mile. Stream density, 2.15 miles per square mile. Mean altitude of basin, 870 ft.

Gage.--Nonrecording prior to Nov. 26, 1934; recording thereafter. Datum of gage is 401.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above on basis of contracted-opening measurement at 10,400 cfs.

Remarks.--Flood records not affected by regulation. Prior to Nov. 26, 1934, peak stages and discharges are estimated from graph based on twice-daily gage readings. 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)
1931	Mar. 29, 1931	6.4	890	1933	Nov. 10, 1932	8.8	2,670
	May 23, 1931	6.0	700		Nov. 19, 1932	7.8	1,430
1932	Mar. 31, 1932	6.6	925	1934	Jan. 23, 1934	5.9	660

Peak stages and discharges of Leadmine Brook near Thomaston, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 5, 1934	a7.5	-
	Mar. 27, 1934	6.4	860
	Apr. 1, 1934	6.5	900
	Apr. 12, 1934	7.0	1,100
	Sept. 9, 1934	6.7	980
	Sept.17, 1934	11.2	6,160
	Sept.29, 1934	6.2	780
1935	Dec. 19, 1934	a5.86	-
	Jan. 10, 1935	8.79	2,670
1936	Mar. 12, 1936	10.43	4,830
	Mar. 18, 1936	8.37	1,650
	Apr. 6, 1936	6.36	840
1937	Dec. 20, 1936	6.36	840
	Feb. 22, 1937	6.75	1,070
	May 15, 1937	6.4	860
	June 21, 1937	5.98	710
1938	Oct. 20, 1937	6.23	800
	Nov. 13, 1937	6.63	940
	Nov. 29, 1937	6.62	940
	Dec. 19, 1937	b7.95	-
	Jan. 25, 1938	10.35	4,700
	July 21, 1938	9.60	3,620
	Sept.21, 1938	11.14	6,050
1939	Dec. 6, 1938	6.80	1,100
	Feb. 15, 1939	a7.07	-
	Feb. 16, 1939	6.25	800
	Apr. 2, 1939	6.40	860
	Aug. 21, 1939	8.50	2,370
1940	Jan. 15, 1940	6.00	710
	Mar. 31, 1940	7.14	1,310
	Apr. 9, 1940	7.95	1,890
1941	Feb. 8, 1941	a6.69	-
	Feb. 8, 1941	6.45	880
1942	Jan. 31, 1942	a6.21	-
	Feb. 17, 1942	a6.20	-
	Mar. 9, 1942	7.89	1,850
	Mar. 22, 1942	6.80	1,100
	May 17, 1942	6.36	840
1943	Nov. 25, 1942	6.22	780
	Dec. 30, 1942	6.65	960
	Feb. 24, 1943	a5.90	-
	May 26, 1943	5.85	658
1944	Mar. 7, 1944	a6.63	-
	Mar. 7, 1944	6.46	880
	Apr. 25, 1944	5.81	640
	Sept.15, 1944	6.84	1,130
1945	Jan. 1, 1945	a8.18	-
	Jan. 1, 1945	7.90	1,480
	Feb. 27, 1945	a6.46	-
	Apr. 25, 1945	9.33	3,240
1945	June 21, 1945	7.50	1,550
	July 18, 1945	6.35	840
	Aug. 25, 1945	5.77	622
1946	Dec. 26, 1945	a6.78	-
	Feb. 14, 1946	a6.43	-
	July 23, 1946	6.34	840
	Sept.30, 1946	5.74	625
1947	Mar. 14, 1947	7.17	1,310
1948	Nov. 12, 1947	6.38	860
	Mar. 20, 1948	6.53	920
1949	Dec. 31, 1948	10.63	5,150
	Jan. 6, 1949	7.65	1,660
1950	Mar. 9, 1950	6.39	840
	June 4, 1950	6.11	760
1951	Nov.25 or 26, 1950	7.85	1,810
	Feb. 7, 1951	7.78	1,770
	Mar. 30, 1951	7.8	1,770
	Apr. 3, 1951	5.85	660
1952	Dec. 21, 1951	5.88	680
	Apr. 5, 1952	5.95	700
	May 12, 1952	5.83	660
	June 1, 1952	6.20	800
	Aug. 16, 1952	6.47	900
1953	Nov. 22, 1952	6.25	820
	Dec. 11, 1952	6.31	840
	Jan. 24, 1953	8.56	2,420
	Mar. 13, 1953	7.30	1,410
	Mar. 16, 1953	6.67	980
	Mar. 24, 1953	5.92	680
1954	Sept.11, 1954	6.00	720
1955	Nov. 3, 1954	5.93	700
	Dec. 14, 1954	6.38	890
	Feb. 6, 1955	6.08	760
	Aug. 14, 1955	6.50	940
	Aug. 19, 1955	13.1	10,400
1956	Oct. 16, 1955	9.60	3,080
	Oct. 31, 1955	7.57	1,300
	Nov. 5, 1955	7.64	1,360
	Apr. 5, 1956	6.34	700
1957	Jan. 23, 1957	6.18	640
1958	Dec. 21, 1957	6.24	660
	Apr. 6, 1958	7.00	990
1959	Nov. 29, 1958	6.72	860
	Mar. 6, 1959	7.48	1,260
	Apr. 3, 1959	6.50	700

a Backwater from ice.
b Results of dam failure.

2085. Naugatuck River at Beacon Falls, Conn.
(Published as "near Naugatuck" prior to 1956)

Location.--Lat 41°26'32", long 73°03'47", on downstream side of highway bridge over Naugatuck River at Beacon Falls, New Haven County, 0.4 mile upstream from Bronson Brook and at mile 10.1.

Drainage area.--Area, 261 sq mi (246 sq mi prior to Oct. 1, 1955). Area of lakes, reservoirs, and ponds, 4.26 sq mi. Length of main stream, 43.6 miles. Average slope above gage, 20.7 ft per mile. Average tributary slope, 103 ft per mile. Average land slope, 483 ft per mile. Stream density, 2.05 miles per square mile. Mean altitude of basin, 801 ft.

Gage.--Recording at site 2.5 miles upstream at datum 37.89 ft higher prior to Oct. 1, 1955; nonrecording thereafter. Datum of gage is 117.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of slope-area measurements at 28,500 and 106,000 cfs.

Remarks.--Flood records not affected by local regulation. Flow regulated by Morris, Wigwam, and Pitch Reservoirs (combined capacity, 550,000,000 cu ft). 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)
1920	Mar. 13, 1920	8.0	8,470	1937	May 15, 1937	6.42	5,880
	Mar. 17, 1920	6.3	5,010		Aug. 27, 1937	5.38	4,130
	Mar. 25, 1920	5.8	4,180				
	Apr. 13, 1920	6.6	5,540	1938	Oct. 20, 1937	6.23	5,500
					Nov. 14, 1937	5.76	4,790
1921	Oct. 1, 1920	7.03	6,290		Nov. 29, 1937	6.68	6,490
	Dec. 5, 1920	6.45	5,180		Jan. 25, 1938	11.24	20,300
	Jan. 14, 1921	6.7	5,720		July 21, 1938	7.89	9,350
	Mar. 10, 1921	5.7	4,020		July 23, 1938	6.00	5,140
	Apr. 24, 1921	6.45	5,180		July 28, 1938	5.44	4,210
					Aug. 11, 1938	6.33	5,690
1922	Mar. 8, 1922	9.95	14,200		Sept.21, 1938	12.40	25,300
	May 5, 1922	6.15	4,840				
				1939	Dec. 6, 1938	6.37	6,900
1923	Jan. 1, 1923	7.13	6,490		Feb. 15, 1939	5.59	5,250
	Mar. 17, 1923	6.65	5,540		Feb. 28, 1939	4.88	4,000
	Mar. 24, 1923	6.28	5,010		Apr. 2, 1939	5.50	5,060
	Apr. 29, 1923	6.5	5,360		Aug. 21, 1939	7.24	8,800
1924	Oct. 24, 1923	6.05	4,500	1940	Jan. 15, 1940	6.98	8,300
	Jan. 11, 1924	7.23	6,690		Mar. 31, 1940	6.63	7,350
	Jan. 17, 1924	7.07	6,490		Apr. 9, 1940	7.54	9,590
	Apr. 7, 1924	12.08	21,900		Apr. 13, 1940	5.43	4,960
	Apr. 19, 1924	6.22	4,840				
	May 12, 1924	5.80	4,180	1941	Feb. 8, 1941	8.28	11,900
1928	November 1927	a14	26,000	1942	Mar. 3, 1942	5.00	4,170
					Mar. 9, 1942	7.73	10,100
1929	Feb. 7, 1929	6.68	5,730		Mar. 22, 1942	6.13	6,250
	Mar. 6, 1929	6.51	5,380		May 17, 1942	5.52	5,060
1930	Mar. 8, 1930	4.44	2,480	1943	Nov. 25, 1942	5.37	4,870
					Dec. 30, 1942	6.93	7,640
1931	Mar. 29, 1931	5.20	3,420		Mar. 16, 1943	5.10	4,040
					May 26, 1943	5.72	5,060
1932	Apr. 1, 1932	5.63	3,970				
				1944	Mar. 7, 1944	5.68	5,440
1933	Nov. 10, 1932	8.05	8,470		Apr. 25, 1944	5.70	5,440
	Nov. 19, 1932	7.86	8,500		Sept.15, 1944	5.90	5,840
1934	Mar. 5, 1934	7.35	7,110	1945	Jan. 1, 1945	6.17	6,460
	Apr. 1, 1934	6.28	5,040		Apr. 26, 1945	8.29	11,500
	Sept. 9, 1934	7.26	6,900		June 22, 1945	5.60	4,880
	Sept.17, 1934	8.75	10,500		July 18, 1945	6.02	5,640
1935	Jan. 10, 1935	7.65	7,820	1946	Dec. 26, 1945	5.57	4,880
					May 28, 1946	5.48	4,700
1936	Mar. 12, 1936	11.96	23,300		July 23, 1946	5.06	4,040
	Mar. 18, 1936	8.84	12,000		Sept.30, 1946	5.38	4,530
1937	Dec. 20, 1936	6.70	6,490	1947	Mar. 14, 1947	6.51	7,140
	Feb. 22, 1937	5.74	4,620		Mar. 14, 1947	6.53	-

a About.

Peak stages and discharges of Naugatuck River at Beacon Falls, Conn.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 5, 1947	5.18	4,620	1953	Apr. 8, 1953	5.31	4,360
					Apr. 14, 1953	5.20	4,200
1948	Nov. 12, 1947	5.80	5,710				
	Nov. 12, 1947	5.91	-	1954	Apr. 18, 1954	5.50	4,700
	Mar. 16, 1948	5.33	4,360		Sept.11, 1954	5.83	5,710
	Mar. 22, 1948	6.5	6,700				
	Apr. 1, 1948	5.2	4,200	1955	Nov. 3, 1954	5.56	5,330
					Nov. 21, 1954	4.99	4,280
1949	Dec. 31, 1948	12.40	28,500		Dec. 15, 1954	6.20	6,500
	Jan. 6, 1949	8.87	13,800		Dec. 18, 1954	5.48	5,150
					Feb. 7, 1955	4.90	4,120
1950	Mar. 9, 1950	5.98	6,100		Aug. 14, 1955	6.43	6,550
					Aug. 19, 1955	25.7	106,000
1951	Nov. 26, 1950	6.74	7,590				
	Feb. 7, 1951	7.61	9,860	1956	Oct. 16, 1955	13.7	30,400
	Feb. 18, 1951	5.17	4,620		Oct. 31, 1955	11.6	11,700
	Feb. 22, 1951	5.16	4,620		Nov. 5, 1955	11.24	10,700
	Mar. 31, 1951	8.10	11,300				
	Apr. 3, 1951	5.77	5,710	1957	Jan. 23, 1957	-	4,500
1952	Dec. 21, 1951	6.13	6,300	1958	Dec. 21, 1957	8.60	5,810
	Jan. 23, 1952	5.08	4,450		Dec. 26, 1957	8.82	6,130
	Jan. 26, 1952	5.19	4,620		Feb. 28, 1958	8.20	5,210
	Mar. 11, 1952	6.33	6,710		Apr. 6, 1958	9.25	6,790
	Apr. 5, 1952	6.34	6,710				
	May 12, 1952	4.87	4,040	1959	Oct. 26, 1958	7.38	4,100
	June 1, 1952	6.96	7,880		Jan. 22, 1959	7.43	4,100
	Aug. 17, 1952	5.55	4,880		Mar. 6, 1959	10.97	10,200
					Apr. 3, 1959	8.64	5,870
1953	Nov. 22, 1952	5.81	5,250				
	Dec. 11, 1952	6.20	6,050	1960	Jan. 3, 1960	8.53	5,720
	Jan. 24, 1953	9.35	15,600		Feb. 11, 1960	7.85	4,710
	Mar. 13, 1953	7.95	11,000		Mar. 31, 1960	9.40	7,160
	Mar. 16, 1953	7.30	9,060		Apr. 5, 1960	8.05	4,990
	Mar. 24, 1953	6.06	5,840		Sept.12, 1960	9.75	7,870
	Mar. 27, 1953	5.74	5,060				

SAUGATUCK RIVER BASIN

2095. Saugatuck River near Westport, Conn.

Location.--Lat 41°10'15", long 73°22'00", on left bank on old Ford Road (Clinton Ave.), 400 ft downstream from West Branch, 600 ft downstream from Aspetuck River and dam of Dorr Co., 2 miles north of Westport, Fairfield County, and 5½ miles upstream from mouth.

Drainage area.--Area, 77.5 sq mi. Average tributary slope, 92.6 ft per mile. Average land slope, 474 ft per mile. Stream density, 1.84 miles per square mile. Mean altitude of basin, 459 ft.

Gage.--Recording. Datum of gage is 18.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of flow-over-dam measurement at 4,420 cfs and contracted-opening measurement at 14,800 cfs.

Remarks.--Flood records not affected by local regulation. Flow regulated by Aspetuck Reservoir and Saugatuck Reservoir (since January 1942). 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)
1933	Nov. 19, 1932	5.60	900	1936	Jan. 3, 1936	5.63	922
	Mar. 8, 1933	5.57	900		Mar. 12, 1936	11.30	5,310
	Mar. 21, 1933	6.10	1,230		Mar. 18, 1936	7.22	1,940
					Apr. 6, 1936	7.10	1,860
1934	Mar. 6, 1934	6.32	1,240				
	Apr. 1 or 2, 1934	7.00	1,650	1937	Dec. 20, 1936	6.23	1,330
					Apr. 6, 1937	6.38	1,420
	June 19, 1934	6.13	1,160		June 22, 1937	5.56	945
	Sept.17, 1934	8.79	3,100				
	Sept.30, 1934	6.35	1,260	1938	Nov. 29, 1937	6.71	1,610
					Jan. 7, 1938	5.75	1,040
1935	Dec. 20, 1934	5.37	788		Jan. 25, 1938	7.63	2,230

Peak stages and discharges of Saugatuck River near Westport, Conr.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	July 24, 1938	8.77	3,120
	Aug. 11, 1938	5.60	970
	Sept. 21, 1938	10.28	4,420
1939	Dec. 6, 1938	5.84	1,100
	Jan. 6, 1939	6.25	1,330
	Feb. 27, 1939	5.65	995
	Mar. 1, 1939	5.55	945
	Apr. 2, 1939	5.99	1,180
	Apr. 7, 1939	5.68	1,020
1940	Jan. 15, 1940	8.56	2,980
	Mar. 15, 1940	9.08	3,400
	Apr. 9, 1940	7.71	2,280
	Apr. 13, 1940	5.73	1,040
	May 31, 1940	6.73	1,600
1941	Feb. 8, 1941	9.56	3,830
1942	Mar. 9, 1942	5.76	1,040
	Aug. 17, 1942	5.94	1,150
1943	Dec. 30, 1942	6.96	1,790
	Feb. 21, 1943	5.71	1,020
	Mar. 7, 1943	5.49	915
	Mar. 16, 1943	5.61	975
	June 2, 1943	6.40	1,420
1944	Mar. 7, 1944	7.13	1,860
	Mar. 13, 1944	6.49	1,480
	Mar. 24, 1944	6.00	1,180
	Apr. 25, 1944	5.92	1,120
1945	Jan. 2, 1945	5.79	1,070
	Feb. 27, 1945	5.52	920
	Apr. 26, 1945	5.89	1,120
1946	Dec. 26, 1945	6.54	1,480
	May 28, 1946	7.16	1,930
	June 2, 1946	5.76	1,070
1947	Mar. 14, 1947	6.12	1,240
1948	Nov. 12, 1947	5.56	945
	Mar. 17, 1948	5.72	1,020
	Mar. 20, 1948	6.22	1,300
	Mar. 22, 1948	6.88	1,720
	Apr. 1, 1948	7.34	2,000
1949	Dec. 31, 1948	6.32	1,360
	Jan. 6, 1949	6.31	1,360
1950	June 2, 1950	4.33	441
1951	Jan. 24, 1951	5.51	920
	Feb. 8, 1951	5.50	920
	Mar. 20, 1951	5.82	1,070
	Mar. 31, 1951	8.90	3,220
	Apr. 3, 1951	5.96	1,150
1952	Dec. 21, 1951	7.84	2,350
	Jan. 23, 1952	6.14	1,250
	Jan. 26, 1952	5.64	965
	Mar. 11, 1952	8.32	2,740
	Apr. 6, 1952	6.80	1,720
	June 2, 1952	7.7	2,280
1953	Dec. 12, 1952	5.57	920
	Jan. 25, 1953	6.65	1,520
	Mar. 13, 1953	10.65	4,710
	Mar. 16, 1953	7.39	2,070
	Mar. 25, 1953	6.18	1,300
	Mar. 27, 1953	5.51	920
	Apr. 8, 1953	5.51	920
1954	Mar. 20, 1954	5.05	720
1955	Aug. 19, 1955	8.04	2,530
1956	Oct. 16, 1955	15.93	14,800
	Oct. 31, 1955	6.6	1,540
	Nov. 5, 1955	8.00	2,500
1957	Apr. 6, 1957	5.78	1,070
1958	Jan. 22, 1958	6.02	1,180
	Jan. 26, 1958	6.03	1,210
	Feb. 28, 1958	7.32	2,000
	Apr. 7, 1958	6.26	1,330
1959	Mar. 6, 1959	6.67	1,600
1960	Jan. 3, 1960	5.53	945
	Feb. 11, 1960	5.56	945
	Feb. 19, 1960	5.58	970

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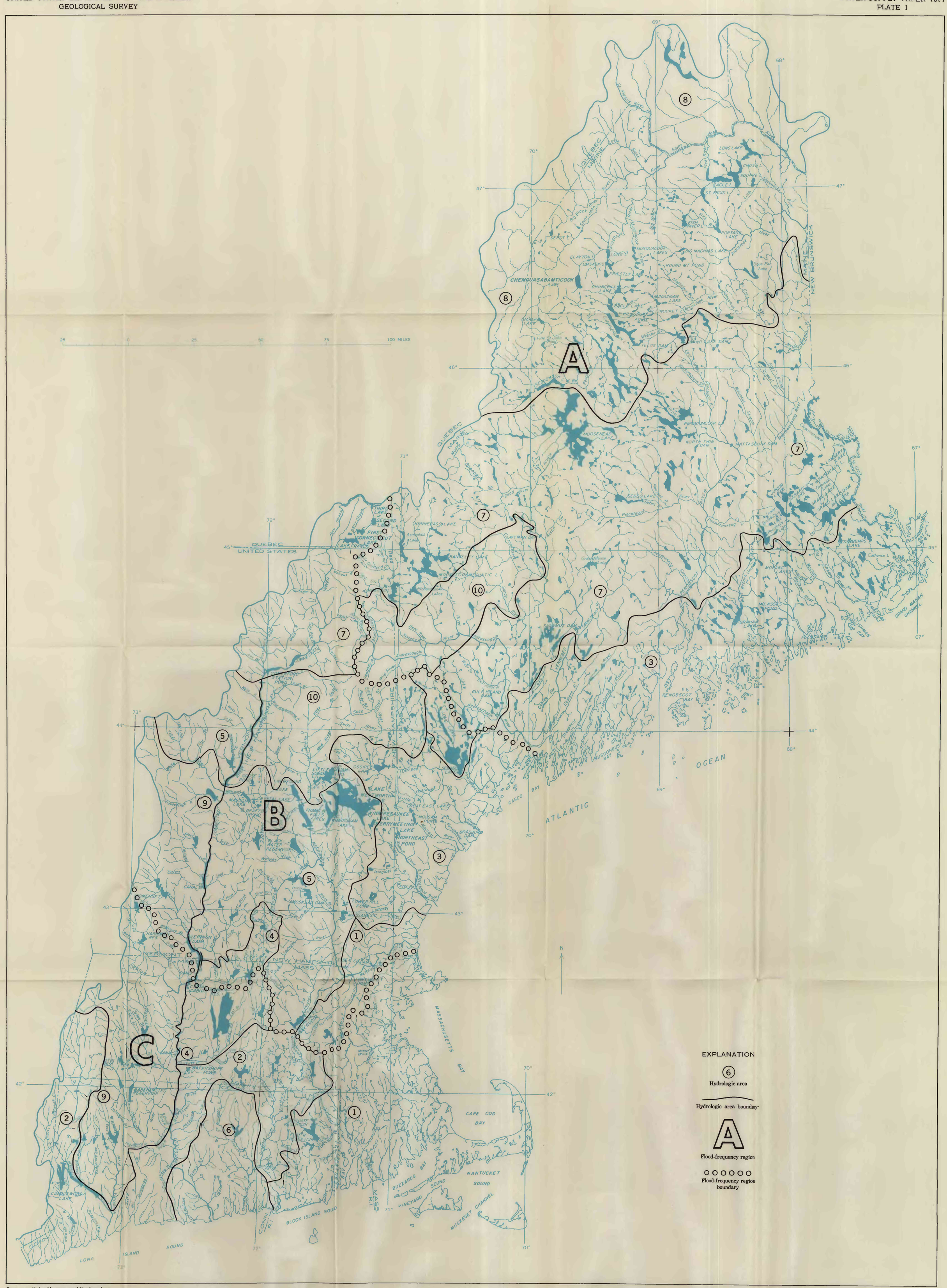

Base compiled, with some modification, from River Basin Maps, IACWR, Subcommittee on Hydrology.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—W64194

MAP OF NORTH ATLANTIC SLOPE BASINS, MAINE TO CONNECTICUT, SHOWING FLOOD-FREQUENCY REGIONS AND HYDROLOGIC AREAS

SCALE 1:1 000 000

25 0 25 50 75 100 MILES

25 0 25 50 75 100 KILOMETERS