GAZETTEER OF HYDROLOGIC CHARACTERISTICS OF STREAMS IN MASSACHUSETTS--CONNECTICUT RIVER BASIN

By S. William Wandle, Jr.

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WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

U.S. Geological Survey
150 Causeway Street, Suite 1309
Boston, MA 02114

Copies of this report can be purchased from:

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CONVERSION FACTORS

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI Units
	Length	
inch (in)	25.4*	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi^2)	2.590	square kilometer (km^2)
	Flow	
cubic foot per second (ft^3/s)	0.02832	cubic meter per second (m^3/s)
cubic foot per second per square mile [$(ft^3/s)/mi^2$]	0.01093	cubic meter per second per square kilometer [$(m^3/s)/km^2$]
	Slope	
foot per mile (ft/mi)	0.1894	meter per kilometer (m/km)

Temperature

Temperature in degrees Fahrenheit (^oF) can be converted to degrees Celsius (^oC) as follows:

$$^oC = 5/9\ (^oF-32).$$

*Exact.

GAZETTEER OF HYDROLOGIC CHARACTERISTICS OF STREAMS

IN MASSACHUSETTS--CONNECTICUT RIVER BASIN

By S. William Wandle, Jr.

ABSTRACT

The Connecticut River basin study area includes streams draining the Ashuelot River (6.6 square miles), Millers River (389 square miles), Deerfield River (663 square miles) Chicopee River (723 square miles), Westfield River (517 square miles), Farmington River (158 square miles), and Connecticut River lowlands (662 square miles) basin in central and western Massachusetts, northern Connecticut, southern Vermont, and southern New Hampshire. Drainage areas, using the latest available 1:24,000 scale topographic maps, were computed for the first time for ungaged streams draining more than 3 square miles and were re-computed for data-collection sites.

Streamflow characteristics at 45 gaging stations were calculated using a new data base with daily flow records through 1981. These characteristics include annual and monthly flow statistics, duration of daily flow values, and the annual 7-day mean low flow at the 2-year and 10-year recurrence intervals. Seven-day low-flow statistics are presented for 118 partial-record sites, and procedures used to determine the hydrologic characteristics of a basin are summarized. Basin characteristics representing 14 commonly used indices to estimate various streamflows are presented for 54 sites in the Connecticut River basin. This gazetteer will aid in the planning and siting of water-resources related activities and will provide a common data base for governmental agencies and the engineering and planning communities.

INTRODUCTION

Information on hydrologic characteristics, including drainage areas, frequency of low flows, and duration of daily flows, is necessary to plan and manage water-resources related activities. Governmental agencies and the engineering and planning community need streamflow and basin characteristics to satisfy requirements relative to waste assimilation, fisheries management, hydropower, land-use planning, stream-systems analysis, and water-resource development and management. No current hydrologic data base containing a comprehensive list of drainage areas, monthly flows, low-flow frequencies, and duration of daily flows is available for most of the Massachusetts stream systems. Drainage areas are available for selected sites where streamflow data are collected. Streamflow characteristics are presented in various reports, but these data, to be current, need to be re-analyzed using the latest available daily flow records.

In response to this need, a study was begun in 1980, in cooperation with the Massachusetts Division of Water Pollution Control, to analyze available streamflow and river-basin characteristics, and to compute subbasin drainage areas. This report is part of a series of gazetteers on

the hydrologic characteristics of the major river basins in the State. Gazetteers are also available for the coastal river basins of the North Shore and Massachusetts Bay (Wandle, 1984a), Hudson River basin (Wandle, 1984b), Merrimack River basin (Wandle and Fontaine, 1984), Taunton and Ten Mile River basins (Wandle and Keezer, 1984), Thames River basin (Wandle and LeBlanc, 1984), Housatonic River basin (Wandle and Lippert, 1984), Blackstone River basin (Wandle and Phipps, 1984), and coastal river basins of the South Shore and Buzzards Bay (Wandle and Morgan, 1984). This report provides the first detailed listing of drainage areas and streamflow characteristics derived from daily flow records in the Connecticut River basin. The streamflow characteristics presented are an expansion and an update of those given in Collings and others (1969), Gay and others (1974), and Wandle and Caswell (1977).

The author thanks the many persons who have kindly given time, information, and guidance during this study. Particular thanks are given to persons in the Geological Survey who assisted in the data collection and in the preparation of this report.

Approach

Streamflow characteristics presented for the 45 continuously gaged streams are based upon a new sample of daily flow records, in comparison to flow records used in the publications cited earlier and Higgins (1967), Knox and Soule (1949), Brackley and Thomas (1979), and Male and Ogawa (1982). Streamflow records through the 1981 water year were available for this analysis. For each site, records were selected to represent a flow regime influenced by fairly constant river basin conditions (Wandle, 1983).

Drainage areas were computed for the first time for ungaged streams draining more than 3 mi^2 and were re-computed for data-collection sites. Drainage divides, as delineated on the latest available 1:24,000 scale topographic quadrangle maps (Wandle, 1981; Brackley and Wandle, 1982; Gadoury and Wandle, 1982a, 1982b; Krejmas, 1982; and Krejmas and Wandle, 1982a, 1982b), were used to calculate drainage areas. Drainage areas for most of the long-term gaging stations in earlier reports were computed using the drainage divides as outlined on 1:31,680 or 1:62,500 scale topographic quadrangle maps.

Data tabulated include drainage areas, basin and streamflow characteristics for gaging stations, including annual and monthly flow statistics, duration of daily flow values, and the annual 7-day mean low flow at the 2-year and 10-year recurrence intervals. Seven-day low-flow statistics for partial-record sites are also presented. An explanation of each procedure to determine the streamflow and basin characteristics is provided.

Description of Study Area

Connecticut River, above its mouth in Long Island Sound, drains an area of 11,263 mi^2 (Thomas, 1972), of which about 9,800 mi^2 is above the Connecticut-Massachusetts State line. This river drains 2,728 mi^2 between the borders of Massachusetts.

The Connecticut River basin in Massachusetts (fig. 1) includes the Ashuelot (6.6 mi^2), Millers (319 mi^2), Deerfield (345 mi^2), Chicopee (723 mi^2), Westfield (516 mi^2), and Farmington River basins (158 mi^2), and minor river basins (662 mi^2) draining into the Connecticut River. The study area includes all or part of the following communities: Adams, Agawam, Amherst, Ashburnham, Ashfield, Athol, Barre, Becket, Belchertown, Bernardston, Blandford, Brimfield, Brookfield, Buckland, Charlemont, Charlton, Chester, Chesterfield, Chicopee, Colrain, Conway, Deerfield, East Brookfield, Easthampton, East Longmeadow, Erving, Florida, Gardner, Gill, Goshen, Granby, Granville, Greenfield, Hadley, Hampden, Hardwick, Hatfield, Hawley, Heath, Hinsdale, Holyoke, Hubbardston, Huntington, Leverett, Leyden, Longmeadow, Ludlow, Middlefield, Monroe, Monson, Montague, Monterey, Montgomery, New Braintree, New Marlborough, New Salem, North Adams, Northampton, North Brookfield, Northfield, Oakham, Orange, Otis, Palmer, Paxton, Pelham, Peru, Petersham, Phillipston, Plainfield, Princeton, Rowe, Royalston, Russell, Rutland, Sandisfield, Savoy, Shelburne, Shutesbury, Southampton, South Hadley, Southwick, Spencer, Springfield, Sturbridge, Sunderland, Templeton, Tolland, Tyringham, Wales, Ware, Warren, Warwick, Washington, Wendell, West Brookfield, Westfield, Westhampton, Westminster, West Springfield, Whately, Wilbraham, Williamsburg, Winchendon, Windsor, and Worthington.

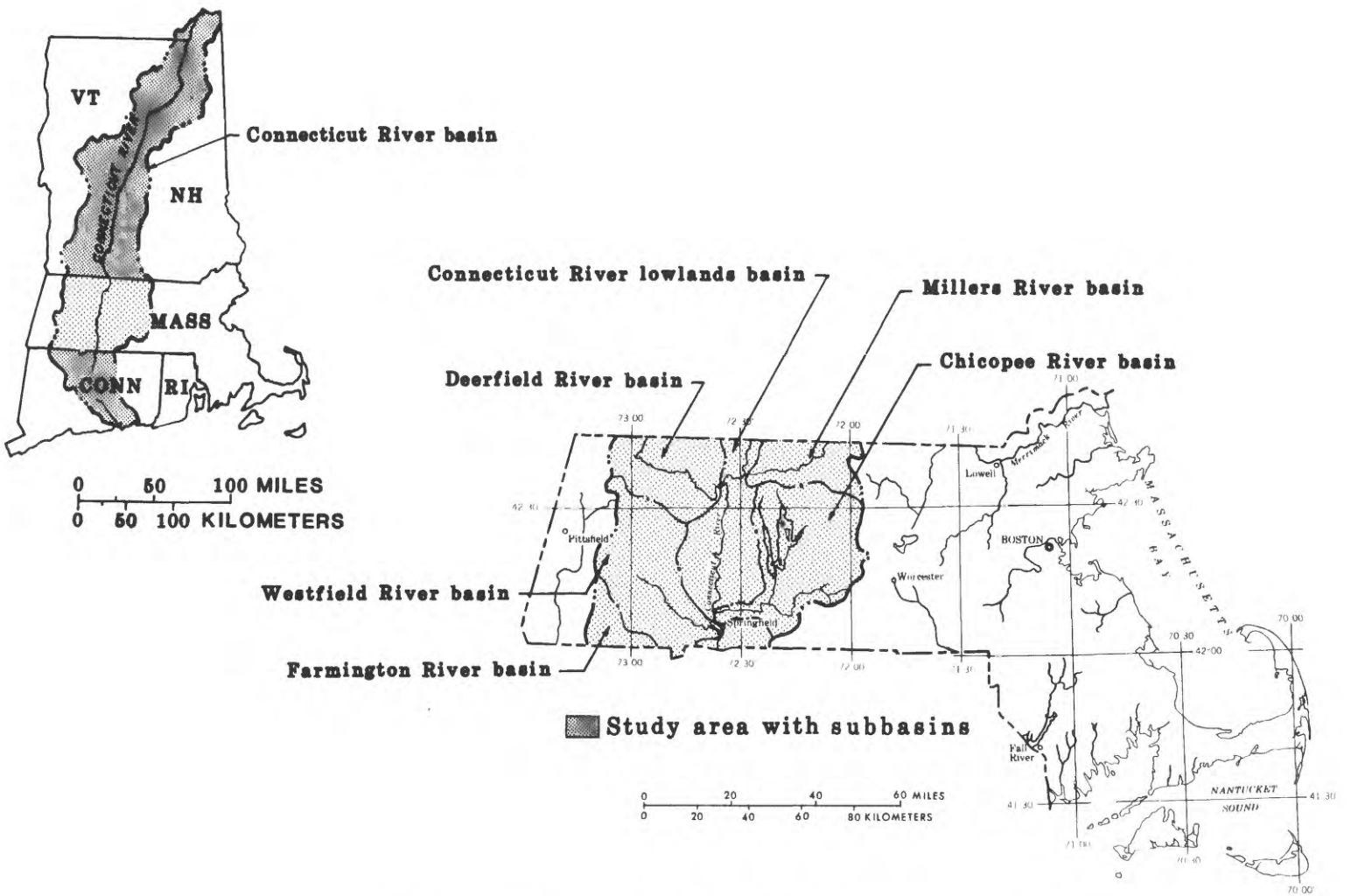


Figure 1.-- Location of the Connecticut River basin.

Previous Studies

Streamflow data used in this study are a part of the historic streamflow data collected under agreements with State and Federal agencies and the U.S. Geological Survey. Most of the low-flow discharge measurements used in determining low-flow estimates at partial-record sites were collected during the water-resources investigations of the Millers River basin (Collings and others, 1969), Deerfield River basin (Gay and others, 1974), Connecticut River lowlands basin (Wandle and Caswell, 1977) and Chicopee River basin (Krejmas and Maevsky, 1985). Measurements were also collected during the 1960's in the Chicopee and Westfield Rivers basins as part of the Massachusetts low-flow network. The file of basin characteristics was created during an evaluation of available streamflow data in central New England (Johnson, 1970). This file is an expansion of the characteristics abstracted by Langbein and others (1947), and by Benson (1962). Basin characteristics were updated and additional characteristics were entered as part of a study to define floodflow characteristics of small streams (Johnson and Tasker, 1974, and Wandle, 1982). The hierarchical stream list was compiled by the Massachusetts Division of Water Pollution Control and the Massachusetts Division of Fisheries and Wildlife (Halliwell and others, 1982).

HYDROLOGIC DATA

Hydrologic characteristics are represented by various physical, climatic, and streamflow indices of a river basin. These characteristics can be determined either from available maps by following standardized procedures or from historic streamflow records.

Basin characteristics are indices of the physiography of the basin or of the climate prevailing over the basin and are measured on topographic quadrangle or climatic maps. Streamflow characteristics are computed from continuous records of daily flow or from a set of measurements during the occurrence of a specific event. Streamflow and basin characteristics are used in modeling stream quality, assessing water-resources conditions, analyzing impact of man's activities, and defining relationships to estimate flows or stream-quality parameters at ungaged sites.

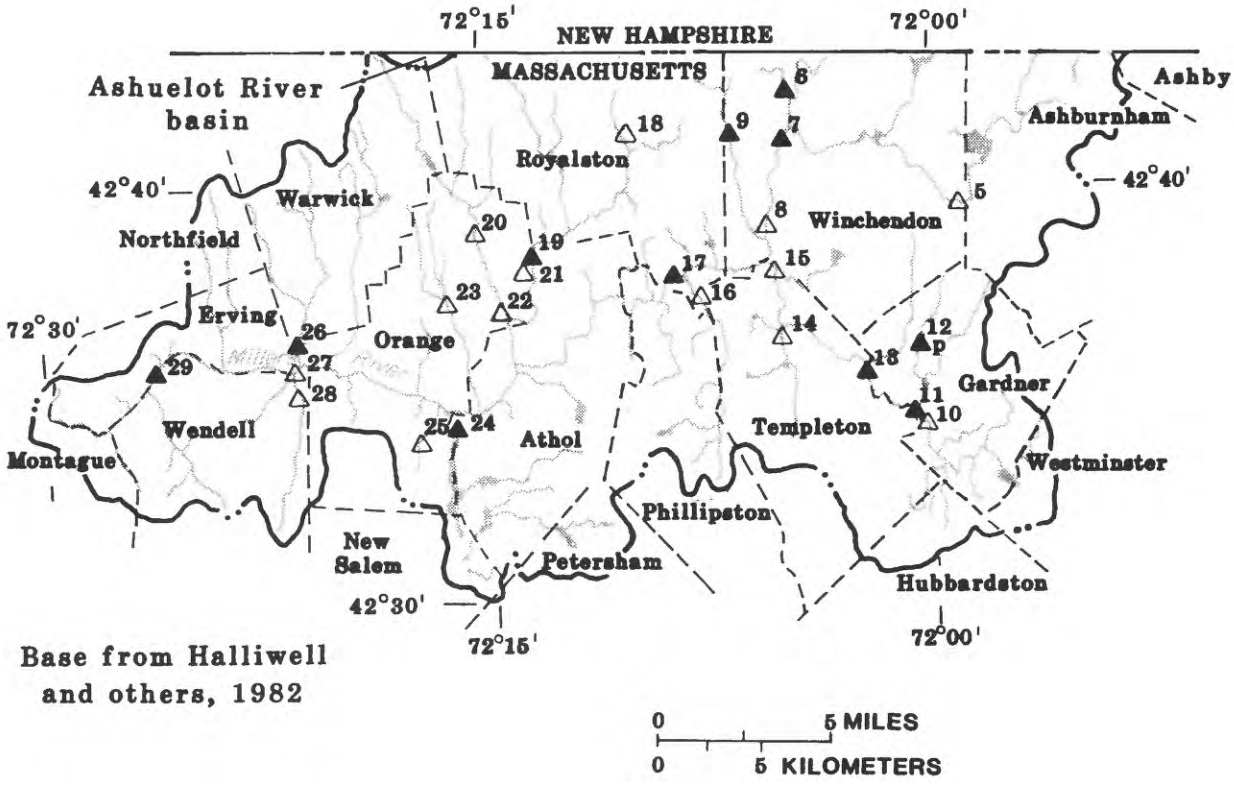
Basin Characteristics

Drainage area is one of the most important variables in any hydrologic investigation or in the design of riverine structures because it is the most significant variable in the northeast that influences all streamflow, except perhaps low flow in some regions. The real physical boundary for many water-related studies corresponds to the limits for the drainage area upstream from the site.

For this study, drainage areas listed in table 1 (at the end of the report) were determined for the following sites:

1. Survey data-collection sites shown in figures 2-7. These sites include continuous-record gaging stations given in table 2 (at the end of the report), low-flow partial-record stations, miscellaneous sites, and water-quality stations.
2. Locations where the drainage area is greater than 3 mi^2.
3. Successive sites along a stream where the area between sites is at least 6 mi^2 on tributary streams, 10 mi^2 on the major streams, and 20 mi^2 on the Connecticut River.

The drainage basin divides for these sites were delineated on the latest available 1:24,000 scale topographic quadrangle maps. Subbasin drainage divides are shown in the series of statewide reports, "Drainage Divides, Massachusetts." The Connecticut River basin is covered by seven reports in this series—Hudson River basin (Wandle, 1981), Housatonic River basin (Gadoury and Wandle, 1982a), Westfield and Farmington River basins (Gadoury and Wandle, 1982b), Deerfield and Millers River basins (Krejmas and Wandle, 1982a), Connecticut River lowlands and Chicopee River basins (Krejmas and Wandle, 1982b), Nashua and Concord River basins (Brackley and Wandle, 1982), and Blackstone and Thames River basins (Krejmas, 1982).



EXPLANATION

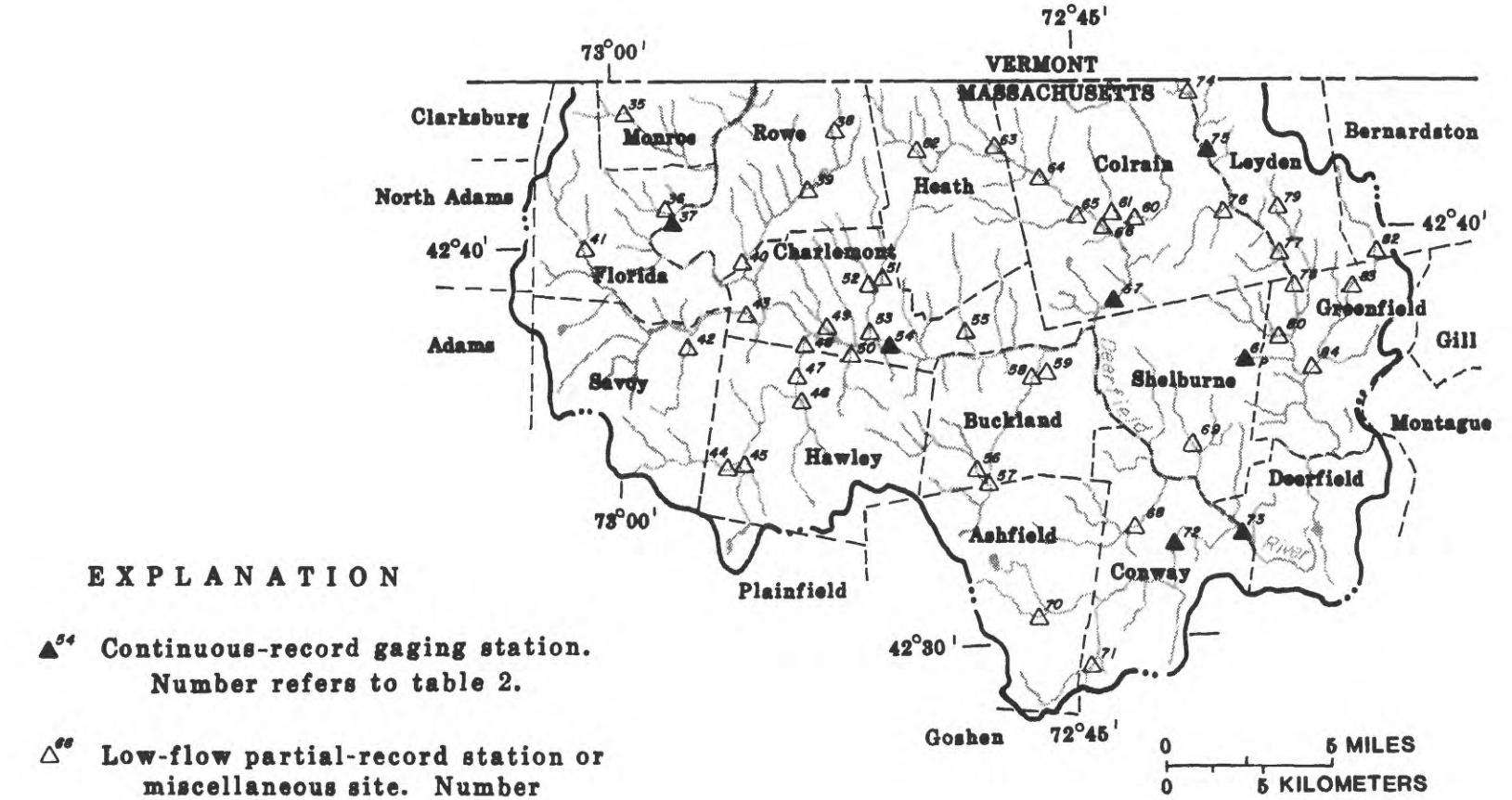
▲26 Continuous-record gaging station. Number refers to table 2.

△20 Low-flow partial-record station or miscellaneous site. Number refers to table 5.

▲12p Peak-flow site. Number refers to table 5.

——··—— Drainage-basin divide

Figure 2.--Location of the gaging stations and low-flow partial-record stations in the Millers River basin



EXPLANATION

▲54 Continuous-record gaging station. Number refers to table 2.

△68 Low-flow partial-record station or miscellaneous site. Number refers to table 5.

▲61 Peak-flow site. Number refers to table 2.

—··— Drainage-basin divide

Base from Halliwell and others, 1982

Figure 3.--Location of the gaging stations and low-flow partial-record stations in the Deerfield River basin

Base from Halliwell and others, 1982

Figure 4.--Location of the gaging stations and low-flow partial-record stations in the Chicopee River basin

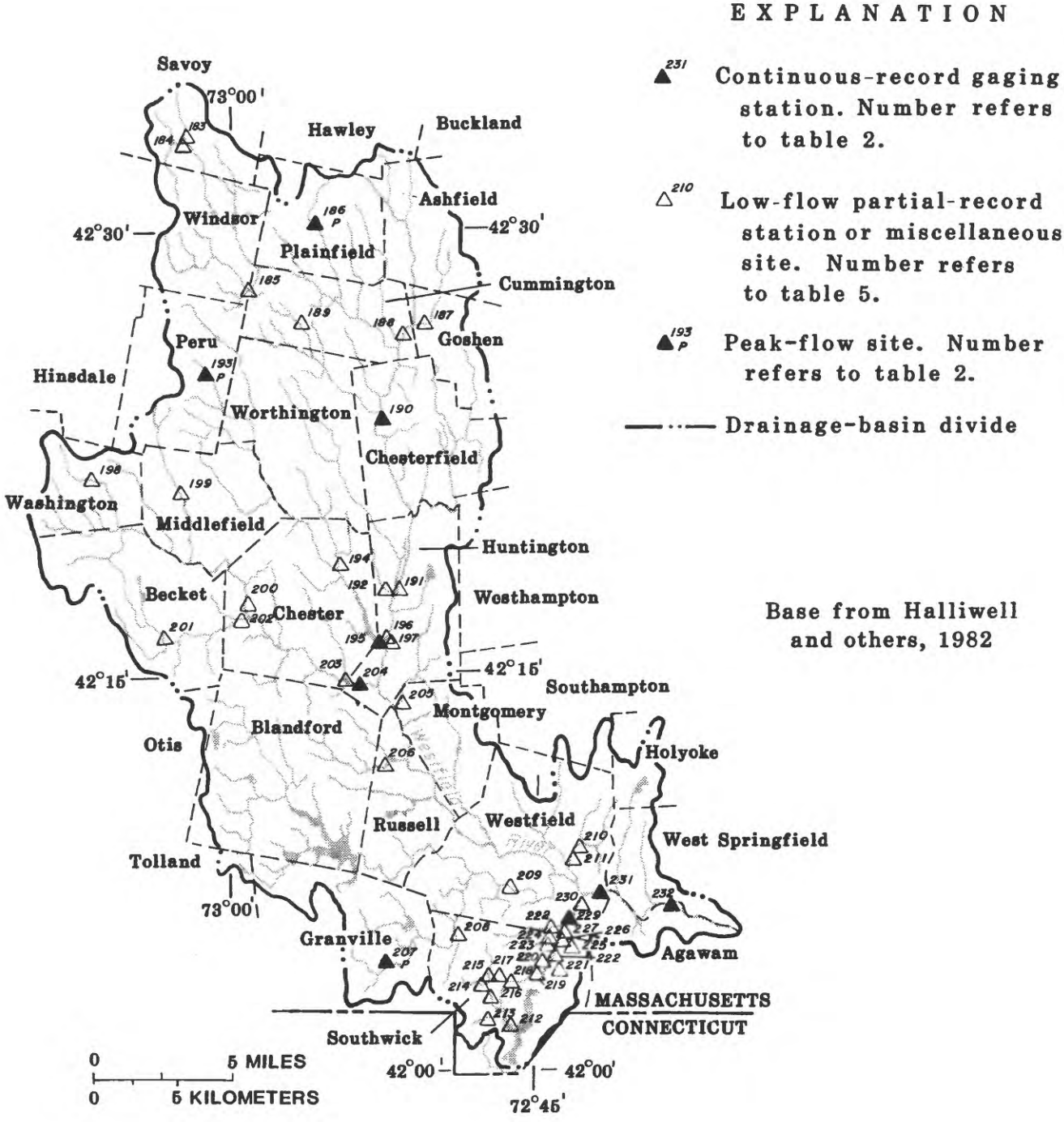


Figure 5.--Location of the gaging stations and low-flow partial-record stations in the Westfield River basin

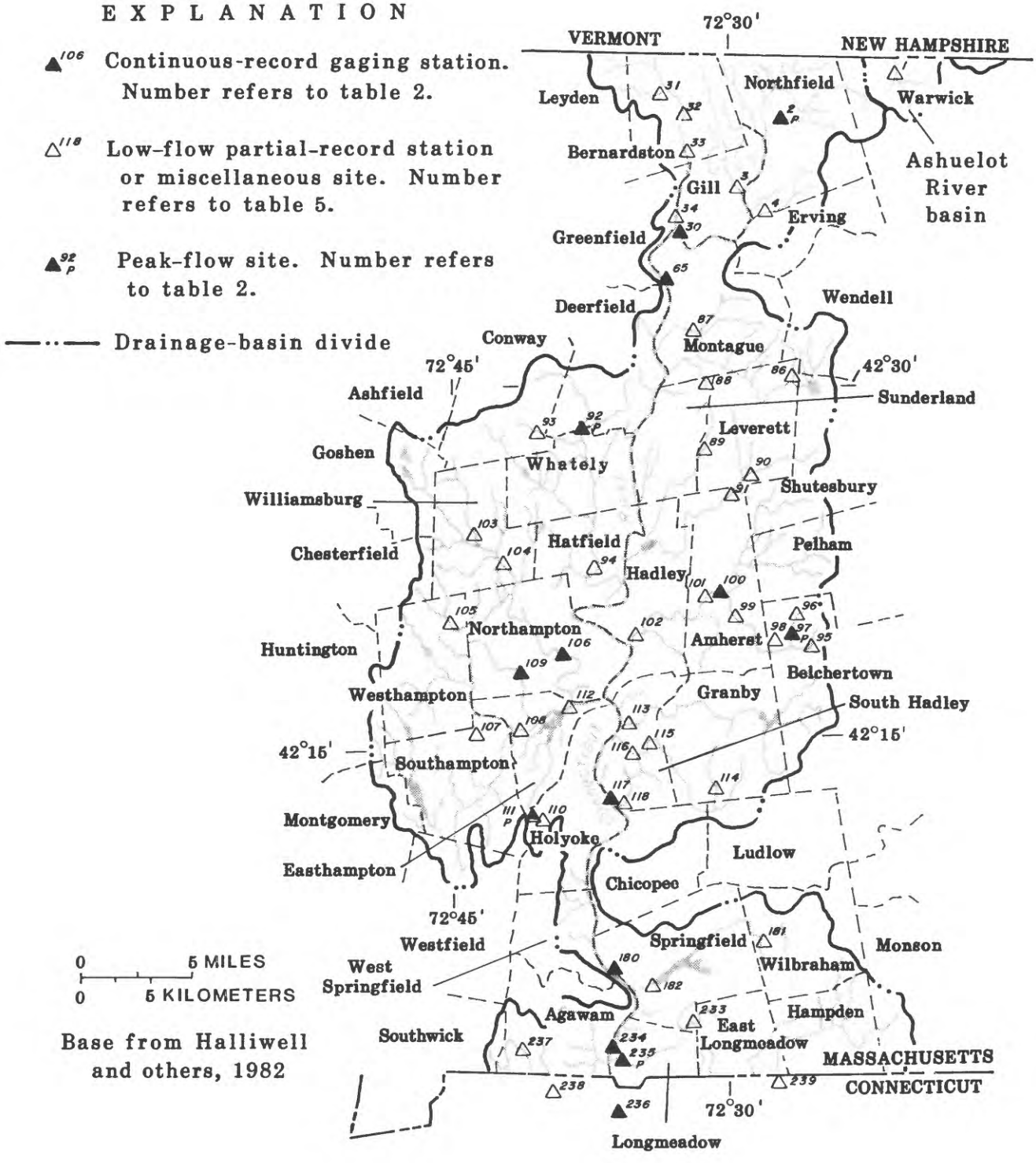
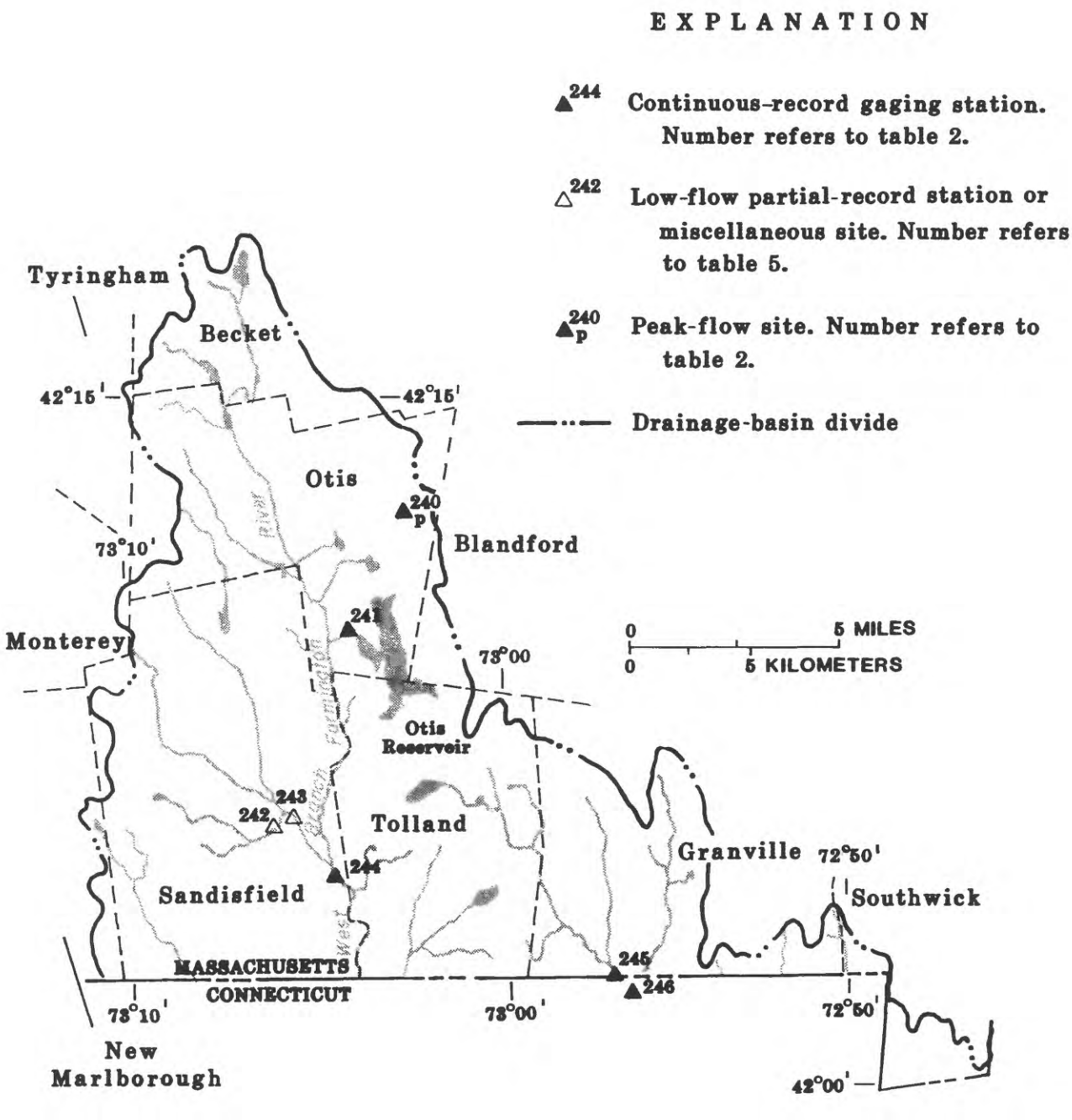


Figure 6.--Location of the gaging stations and low-flow partial-record stations in the Connecticut River lowlands basin



Base from Halliwell and others, 1982

Figure 7.--Location of the gaging stations and low-flow partial-record stations in the Farmington River basin

The subbasin drainage areas given in table 1 are indexed to the Massachusetts stream inventory prepared by the Massachusetts Division of Water Pollution Control and the Massachusetts Division of Fisheries and Wildlife (Halliwell and others, 1982) with some modification. Drainage areas were computed for sites meeting one of the three criteria mentioned above. The entire stream listing is included as a reference for stream order. This hierarchical listing begins at the mouth of a major stream and proceeds upstream with tributary streams indented under the main-stem stream. This order is followed to list all named streams. Unnamed tributaries are included to maintain the hierarchy. The reader is referred to the inventory of rivers and streams report by Halliwell and others (1982) for a more detailed explanation.

The basin characteristics listed below are included because they represent indices that would remain reasonably stable over a planning period. They can be used in predictive surface-water models to assess impacts of proposed developments. The usefulness of these characteristics to explain the variability of various streamflow events has been demonstrated in hydrologic analyses (Thomas and Benson, 1970) and they can be measured readily from available maps. The 14 basin indices given in table 3 (at the end of the report) were computed according to the procedures described below. The indices for elevation, storage, lake area, and forest can be computed by the grid method which is explained after all the procedures are described.

1. Drainage area—Area, in square miles, as measured on the most recent 1:24,000 scale topographic quadrangle maps. Drainage area, as defined in the "National Handbook of Recommended Methods for Water-Data Acquisition" (U.S. Geological Survey, 1977), is "...the area of a river basin, measured in a horizontal plane, that is enclosed by a topographic divide such that direct surface runoff from precipitation normally would drain by gravity into the river basin.". Drainage area boundary lines are traced on topographic maps along divides indicated by contour elevations, starting at the point on the stream for which the drainage area is desired. These lines are drawn to cross a contour at right angles. Interpolation between contours may be indicated by reference to trails, old roads, or firebreaks in forested areas, all of which frequently follow drainage divides. Detailed information may also be obtained from highway or street profiles, from examination of aerial photographs, and from ground reconnaissance. Subareas within each quadrangle map were computed with an electronic digitizer using the procedures of the U.S. Federal Inter-Agency River Basin Committee (1951) as a guide. The coefficients to compute square miles from digitizer units were calculated using the known area of each 7.5-minute quadrangle or of the appropriate 2.5-minute quadrilaterals. Drainage areas for the subbasins were computed by summing the contributing areas.

2. Slope—Main-channel slope, in feet per mile, determined from elevations at points 10 percent and 85 percent of the distance along the main channel from the gaging station to the basin divide.

3. Length—Main-channel length, in miles, from the gaging station to the basin divide, as measured with dividers set to 0.1 mile or with a map measurer.

4. Elevation—Mean basin elevation, in feet above sea level, measured on topographic maps by laying a grid over the map.

5. Storage—Area of lakes, ponds, and marshes, in percent of total drainage area, measured by planimetering or by using a transparent grid. The marsh area includes the area of wooded marshes and marshes as defined by the appropriate topographic quadrangle map symbol. Storage area is the total area of all the lakes, ponds, and marshes expressed as a percentage of the total drainage area.

6. Lake area—Area of lakes and ponds, in percent of the drainage area, determined by the grid method.

7. Forest—Area of forest, in percentage of the drainage area, determined from the forest cover as shown on the topographic map with the green woodland overprint using the grid method.

8. Soil—Soil index, in inches, represents the value of potential maximum infiltration, during an annual flood, under average soil-moisture conditions. This characteristic, provided by the U.S. Soil Conservation Service (Dr. Benjamin Isgur, written commun., 1970), is a function of the soil and cover conditions in the basin. The index was computed from the runoff curve number following procedures in U.S. Department of Agriculture (1972).

9. Latitude--Latitude of stream-gaging station, in decimal degrees, determined by manual measurement.

10. Longitude—Longitude of stream-gaging station, in decimal degrees, determined by manual measurement.

11. Precipitation—Mean-annual precipitation, in inches, determined from the isohyetal map in Knox and Nordenson (1955). The variation in mean-annual precipitation is shown in more detail in this map than in more recent sources.

12. Precipitation intensity--Maximum 24-hour rainfall, in inches, having a recurrence interval of 2 years. This characteristic was determined from U.S. Weather Bureau (1959b).

13. Snowfall—Average total seasonal snowfall, in inches, from an isohyetal map in Lautzenheiser (1969).

14. January temperature—Minimum January temperature, in degrees Fahrenheit, determined from U.S. Weather Bureau (1959a).

Several basin characteristics were measured following the grid method by using transparent grids to compute area or an average contour value. Storage area is determined by randomly placing the grid over the water and marsh area and counting squares. If the water and marsh area is large enough (about 30 squares), the number of grid intersections within the storage area are counted. The storage area then is computed as the product of the square size and the number of grid intersections. To measure a contour value such as elevation, the grid spacing is selected to give at least 25 intersections within the basin boundary. The elevation at each grid intersection is determined and an average is computed. The percentage of a variable that is extensive in a drainage basin, such as forest cover, can be easily measured by counting the number of grid intersections occurring over the forested area, multiplying by 100, and dividing by the number of grid intersections within the basin.

Streamflow Characteristics

Historic daily flow records available in the Connecticut River basin were used to compute daily, monthly, and annual flow characteristics. A summary of these records is given in table 2 and the location of streamflow sites is shown in figures 2-7. These flow data were collected as part of the Survey's nationwide data-collection network through agreements with State and Federal agencies. Records of daily flow are available from the Survey's National Water Data Storage and Retrieval System (WATSTORE). This water-data computer processing system consists of several files containing data grouped by common characteristic and data-collection frequency.

The WATSTORE system includes site identification, daily values files, and computer programs that produce streamflow statistics. Hydrologic-data files are maintained for (1) parameters measured on a daily or continuous basis, such as streamflow values, river stages, water temperatures, specific-conductance values, and ground-water levels; (2) annual peak values for streamflow and stage; (3) chemical analyses for surface- and ground-water sites; and (4) ground-water site inventory, including location, identification and geohydrologic characteristics. The data-processing, storage, retrieval, and analysis capabilities of WATSTORE are described in the system user's guide compiled by Hutchison (1975). Information on the availability of data analyses may be obtained from: U.S. Geological Survey, 150 Causeway Street, Suite 1309, Boston, MA 02114.

A brief description of the streamflow statistics computed using the WATSTORE system is included below. Streamflow characteristics representing annual, monthly, and daily flow statistics were selected for this analysis because they are useful in planning and design studies in this region. The streamflow statistics computed following the procedures given below are listed in table 4 (at the end of the report).

Annual and monthly flow characteristics (means and standard deviations) for 45 gaging stations were computed with the "Daily Values Monthly and Annual Statistics" computer program W4422 (Price and Meeks, 1977) using observed daily flow records. The maximum and minimum, monthly means (fig. 8 and table 4) were obtained from output provided by this program. The monthly hydrograph for the West Branch Westfield River at Huntington is shown in figure 8.

Characteristics of the flow-duration curve (the daily flow exceeded 99, 95, 90, 75, 70, 50, 25, and 10 percent of the time) were computed for 45 gaging stations by means of computer program A969, "Daily Values Statistics" (Meeks, 1977). The flow-duration curve for the Mill River at Northampton is given in figure 9. Low-flow characteristics (the annual 7-day mean low flow at the 2-year and 10-year recurrence interval, 7Q2, and 7Q10, respectively) were also calculated for 42 gaging stations by program A969. In this program, a log-Pearson Type III distribution is fitted to a set of observed annual 7-day mean low flows to obtain coordinates of the computed low-flow frequency curve. If the log-Pearson Type III curve did not adequately fit a plot of the observed data, especially in the low end, then a graphical curve was drawn. The graphical frequency curve was used to interpret the observed data when necessary because a graphical curve is the basic curve to use in analyzing the frequency of annual low flows according to Riggs (1971, 1972). The frequency curve for the West Branch Westfield River is shown in figure 10.

Additional flow data, including flood-frequency analyses, are available from WATSTORE. Peak discharges for selected recurrence intervals for 82 sites in Massachusetts are given in Wandle (1982).

Characteristics of low flow were also determined at low-flow partial-record stations where measurements of discharge, rather than a continuous daily flow record, were available. This estimating technique is briefly described in the section on Streamflow Analysis. The 7-day low-flow statistics were developed from discharge measurements made during periods of base runoff. Base runoff is defined (Langbein and Iseri, 1960) as "the sustained or fair weather runoff. In most streams, base runoff is composed largely of ground-water effluent." Base runoff usually occurs in most Massachusetts streams during the summer or early fall after 5 to 7 consecutive days without rainfall.

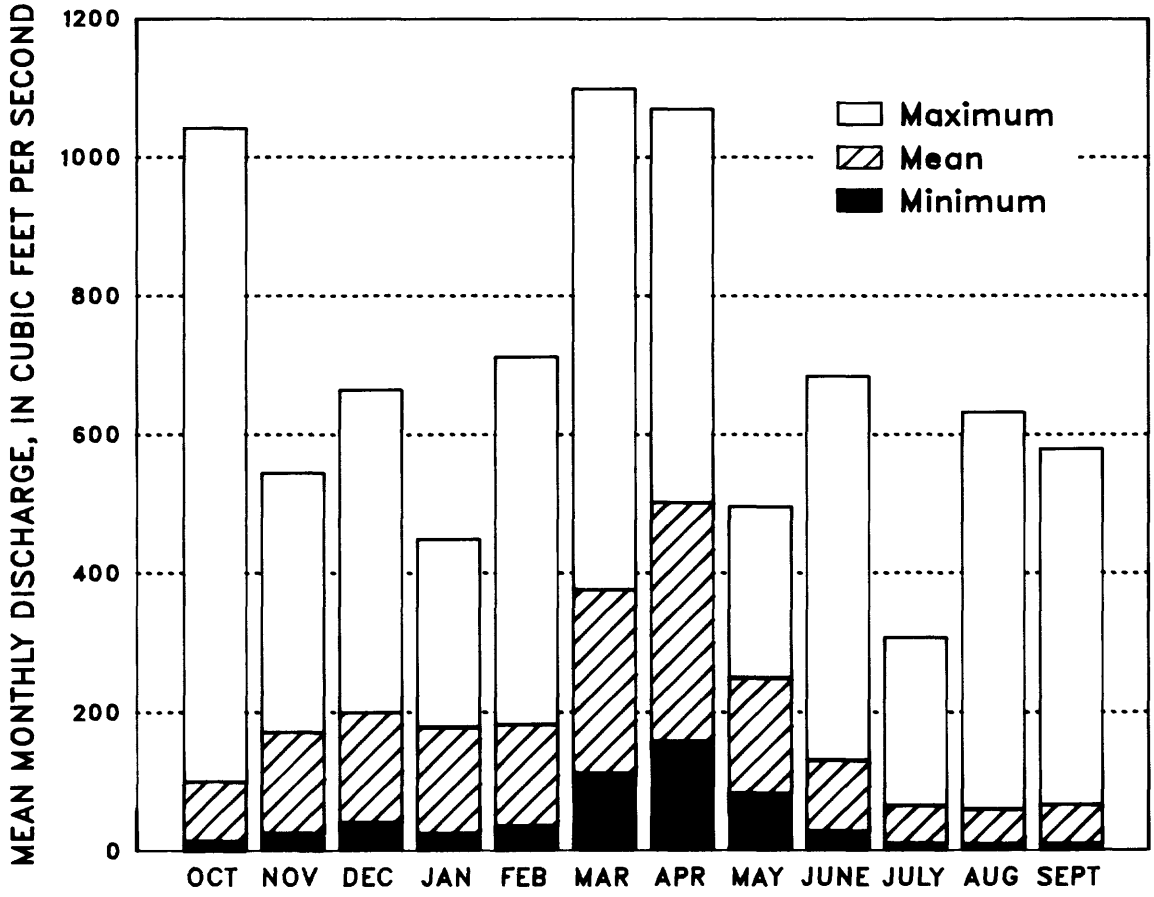


Figure 8.--Monthly discharges and extremes for the West Branch Westfield River at Huntington, Mass. (site 204), during 1936-81

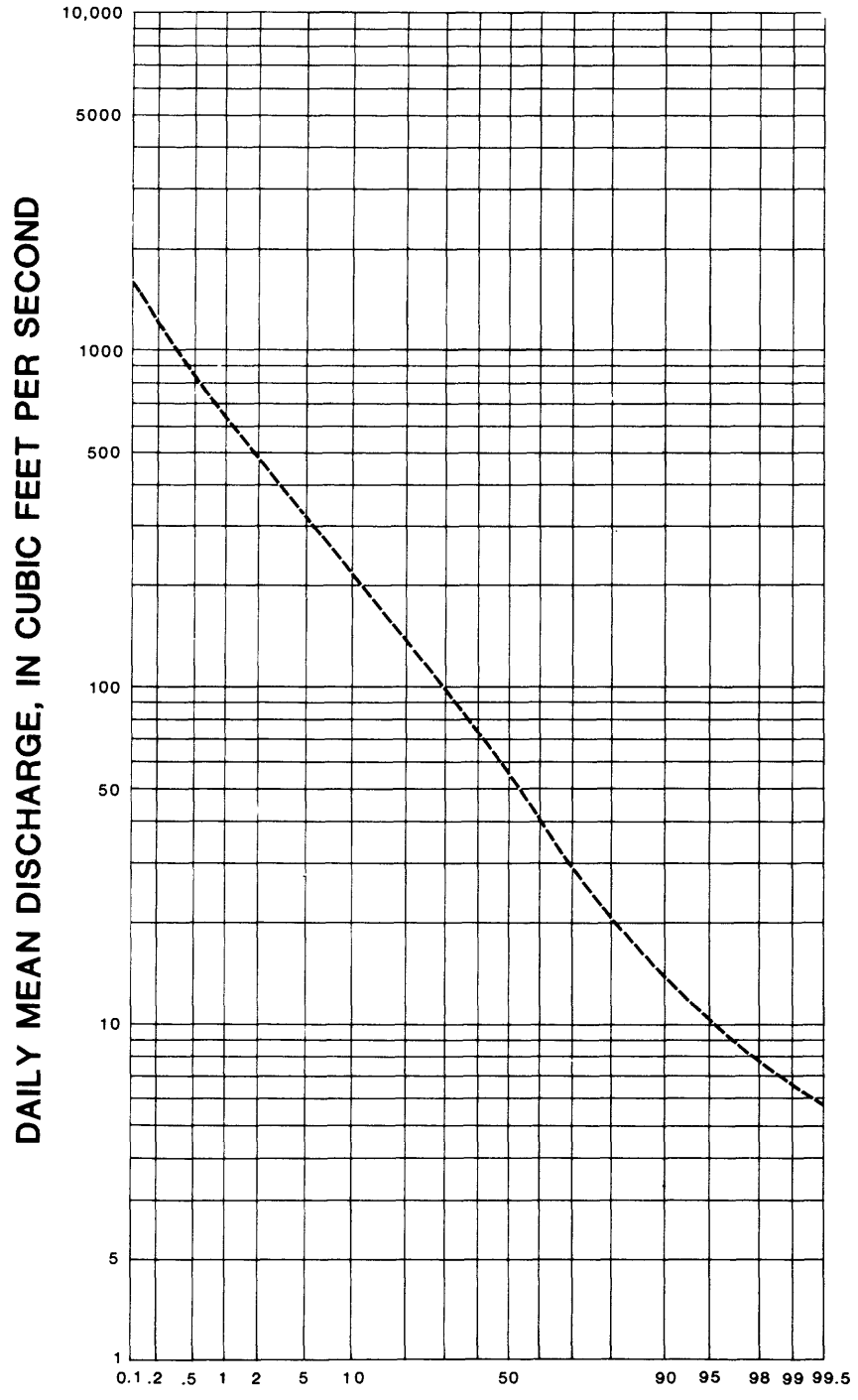


Figure 9.--Flow-duration curve for the Mill River at Northampton, Mass. (site 106), during 1940-81

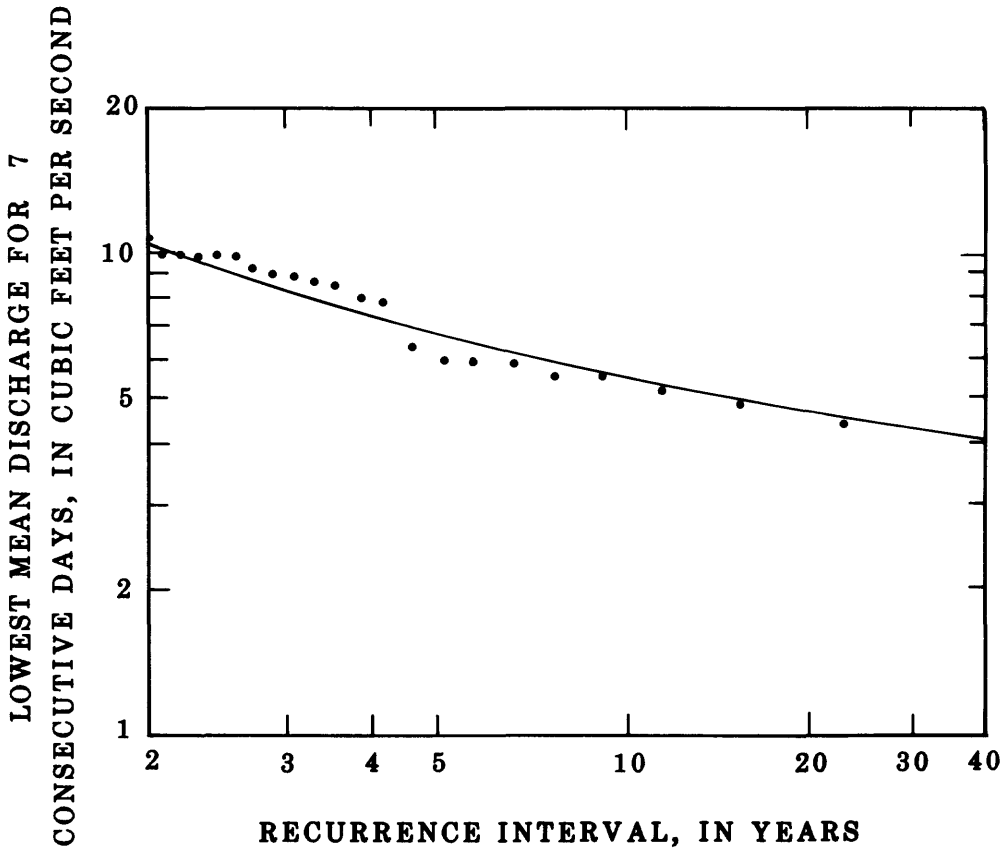


Figure 10.—Low-flow frequency curve for the West Branch Westfield River at Huntington, Mass. (site 204), during 1937-81

STREAMFLOW ANALYSIS

Streamflow Data Base

Systematic records of daily streamflow have been collected since at least 1910 in the Connecticut River basin. The location and period of record for these gaging stations are given in table 2. Daily flow data for two Massachusetts streams (Hubbard Brook and Valley Brook) are available as part of the data-collection program in Connecticut. Streamflow records are available for other stations in the Connecticut River basin within the States of Connecticut, New Hampshire, or Vermont from the U.S. Geological Survey offices in Hartford, Connecticut; Bow, New Hampshire; or Montpelier, Vermont; respectively.

Discharge measurements were made at 118 low-flow partial-record or miscellaneous sites during the water-resources investigation of the Springfield-Holyoke area (Kammerer and others, 1961), Millers River basin (Collings and others, 1969), Deerfield River basin (Gay and others, 1974), Connecticut River lowlands (Wandle and Caswell, 1977) and Chicopee River basin (Krejmas and Maevsky, 1985). During the ground-water study of the Great Brook basin (Meyer and others, 1968), discharge measurements were made at 18 sites from 1967 to 1968. Measurements were also collected as part of the Massachusetts low-flow network at six sites from 1978 to 1981, at 49 sites from 1960 to 1962 and 1965 to 1966, and at 24 sites during 1965. Data are available as part of the Connecticut water-resources program, for Philo Brook and for Scantic River which are just south of the Massachusetts-Connecticut State line.

Flow characteristics are useful in resource management and design studies if these variables represent a particular regulated flow sequence or the natural flow regime that is expected to occur in the future. A valid streamflow analysis is based upon flow records during a period of relatively constant river-basin conditions.

Daily Flow Statistics

Systematic daily flow records available for 48 sites in the Connecticut River basin were reviewed to select a data base for statistical analysis. Impacts of reservoirs, diversions, regulation, and withdrawals for public supplies on streamflows were assessed using information on stream regulation found in the series of water-resources data reports issued annually (see U.S. Geological Survey, 1980, for an example) and in Knox and Soule (1949). Streamflow records for 45 sites were selected that represent a flow regime influenced by fairly constant river-basin conditions (Wandle, 1983). The record length used in this analysis is given in table 4. Low flow, monthly flow, and flow-duration characteristics given in table 4 were derived from the observed streamflow records at each station and were not adjusted for regulation or diversion. These daily streamflow characteristics were computed following procedures summarized in the section on streamflow characteristics.

Low-Flow Statistics

Continuous streamflow records are not necessary to estimate low-flow characteristics at sites. According to Riggs (1972), selected base-flow measurements rather than a continuous daily flow record can define the low-flow characteristics at a site.

Low-flow partial-record stations are operated to collect discharge measurements when the streamflow is composed largely of ground-water runoff. These low-flow sites are selected on streams where flow is expected to occur during a significant dry spell and where the flow is not affected by artificial regulation. Base-flow measurements to define a relation with concurrent gaged flows are obtained over several low-flow periods.

A relation is developed with the base-flow measurements and the concurrent daily mean flows at a nearby long-record gaging station (index station). The 7-day low-flow statistics (7Q2 and 7Q10) for the site are determined from this relation using the appropriate low-flow statistics for the gaged stream. This estimating technique is explained in more detail by Riggs (1972).

Low-flow statistics for 118 sites in the Connecticut River basin are summarized in table 5 (at the end of the report). The low-flow statistics are representative of the hydrologic regime during the data-collection period. Seven-day, 2-year, and 10-year low flows ranged from 0 to 0.45 and from 0 to 0.30 $(ft^3/s)/mi^2$, respectively, at these sites. The Caldwell Creek near Belchertown, East Branch Swift River near Hardwick, East Branch Tully River near Athol, Hop Brook near New Salem, Mill River at Northampton, Moss Brook at Wendell Depot, North Branch Hoosic River at North Adams, North River at Shattuckville, Otter River at Otter River, Priest Brook near Winchendon, Quaboag River at West Brimfield, Sevenmile River near Spencer, Sykes Brook at Knightville, Tarbell Brook near Winchendon, and West Branch Westfield River at Huntington, were used as index stations. These values were computed following the procedures mentioned above.

SUMMARY

Drainage areas were re-computed for data-collection sites and computed for the first time for ungaged streams draining greater than 3 mi^2. Basin characteristics for drainage area, slope, length, elevation, storage, lake area, forest, soil, latitude, longitude, precipitation, precipitation intensity, snowfall, and January minimum temperature are provided for 54 sites in the Connecticut River basin. WATSTORE computer programs A969 and W4422 were used to determine daily flow statistics for 45 gaging stations including annual and monthly flows, duration of daily flows, and 7-day low-flow values. Seven-day, 2-year, and 10-year low flows ranged from 0 to 0.45 and from 0 to 0.30 $(ft^3/s)/mi^2$, respectively, at the 118 partial-record stations.

Techniques used to compute basin and streamflow characteristics of a river basin are summarized. This gazetteer contains a comprehensive listing of hydrologic characteristics that should prove useful to those concerned with water-resources activities.

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin

[Sites with streamflow information listed in tables 2, 4, or 5 are marked with an asterisk. The hierarchical listing is modified from Halliwell and others, 1982. Drainage areas are shown for sites as explained in the section on basin characteristics. These areas are not adjusted for manmade changes in the flow system. Streams entirely in adjacent states are underlined and are included in the list where necessary to maintain the stream order.]

Stream name	Location	Drainage area, in square miles
	CONNECTICUT LOWLANDS BASIN	
Connecticut River		
Scantic River	Downstream from Watchaug Brook	36.7
Thrasher Brook		
Watchaug Brook	Mouth	8.85
Scantic River	State Route 83	[1] *27.1
Scantic River	Mill Road	24.5
West Brook		
Big Brook	Mouth	2.72
Unnamed tributary		
East Brook	Mouth	3.85
Temple Brook	Mouth	4.24
Scantic River	Upstream from Temple Brook	3.86
Rockadundee Brook	Mouth	3.69
Stony Brook (Conn.)		
Muddy Brook (Conn.)		
Philo Brook	0.7 mile below Mass.-Conn. State line	2.55
Still Brook	State Route 187	*5.26
Unnamed tributary	0.4 mile upstream from mouth at Leonard Pond	1.99
Connecticut River	Enfield Dam	[2] *9661
Freshwater Brook (Conn.)		
Jawbuck Brook (Conn.)	200 feet downstream from Shaker Pond outlet	2.05
Raspberry Brook	Mouth	1.03
Longmeadow Brook	Pondside Road	*4.40
Longmeadow Brook	Longmeadow Street	3.86
Threemile Brook		
Worthington Brook	State Route 159	3.96
Fourmile Brook		
Threemile Brook	State Route 159	5.91
Tarkill Brook	Mouth	.94
Connecticut River	1.4 miles upstream from Mass.-Conn. State line	*9620
Wheel Meadow Brook		
Cooley Brook		
Unnamed tributary	0.15 mile downstream from Porter Lake	6.15
Entry Dingle Brook	Mouth	1.29
Pecousic Brook	Dwight Road	*3.01
Westfield River		
Mill River	75 feet upstream from Hancock Street	*33.2

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Mill River	Allen Street	33.1
South Branch Mill River		
Schneelock Brook	Mouth	1.40
South Branch Mill River	Upstream from Schneelock Brook	11.7
South Branch Mill River	Porter Road	6.92
South Branch Mill River tributary	Soule Road	2.56
North Branch Mill River	Mouth	13.9
North Branch Mill River	Parker Street	10.6
North Branch Mill River	Wilbraham Road	*7.30
North Branch Mill River	Springfield Street	3.44
Connecticut River	1.1 miles upstream from Westfield River	9055
Piper Brook	Mouth	.55
Bagg Brook		
Chicopee River		
Goldine Brook		
Schoolhouse Brook	U.S. Route 5	2.40
Tannery Brook	U.S. Route 5	2.18
Buttery Brook	Main Street	*3.09
Newton Smith Brook		
Connecticut River	Holyoke Dam	*8303
White Brook		
Stony Brook	State Route 116	20.9
Leaping Well Brook		
Stony Brook	0.2 mile upstream from Leaping Well Brook	19.6
Stony Brook	Morgan Street	*18.8
Muddy Brook	Truby Street	*1.84
Stony Brook	Tilley Street	6.65
Bachelor Brook	State Route 47	*31.0
Elmer Brook		
Bachelor Brook	Aldrich Lake outlet	23.8
Ingraham Brook	Mouth	1.59
Turkey Hill Brook	Mouth	2.62
Unnamed tributary	0.2 mile downstream from U.S. Route 202	.79
Weston Brook	Boardman Street	3.73
Lampson Brook		
Bachelor Brook	George Hannum Street	4.85
Dry Brook		
Manhan River	0.3 mile upstream from mouth	84.0
Unnamed tributary		
Brickyard Brook		
Plum Brook		
Wilton Brook		
White Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Manhan River (Continued)		
Unnamed tributary (Continued)		
Broad Brook	Mouth	11.9
Broad Brook	Keys Road	2.27
Broad Brook	Rock Valley Street	*1.49
Bassett Brook	State Route 66	*5.56
Parsons Brook		
Hannum Brook		
Manhan River	Loudville Road	*58.2
North Branch Manhan River	Mouth	21.5
North Branch Manhan River trib.	Lead Mine Road	*.77
Turkey Brook		
Sodom Brook	Mouth	6.34
Rice Brook		
Lyman Brook	160 feet upstream from River Brook	2.37
North Branch Manhan River	North Road	5.02
Tripple Brook		
Unnamed tributary		
Potash Brook		
Manhan River	East Street	30.1
Moose Brook		
Red Brook	Mouth	2.34
Brickyard Brook		
Manhan River	Upstream from Brickyard Brook	19.4
Alder Meadow Brook		
Sacket Brook		
Manhan River	Tighe Carmody Reservoir outlet	14.4
Tucker Brook	Mouth	4.91
Breakneck Brook		
Red Brook		
Blue Meadow Brook		
Manhan River	White Reservoir outlet	4.30
Unnamed tributary		
Mill River Diversion		
Mill River	3.5 miles upstream from mouth	*54.0
Unnamed tributary		
Day Brook		
Clark Brook		
Roberts Meadow Brook	Mouth	11.5
Marble Brook		
Roberts Meadow Brook	North Road	*4.77
Brewer Brook	Mouth	2.26
Beaver Brook		
Grass Hill Brook		
Nungee Brook		
Potash Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Unnamed tributary (Continued)		
Mill River Diversion (Continued)		
Mill River	0.3 mile downstream from Unquomonk Brook	29.0
Unquomonk Brook		
Joe Wright Brook	Mouth	3.42
Potash Brook		
East Branch Mill River	Bullard Street	*9.37
East Branch Mill River tributary	55 feet upstream from mouth	.64
Bradford Brook	0.2 mile downstream from Ashfield—Willamsburg Valley	3.76
Cold Brook		
West Branch Mill River	Downstream from Meekin Brook	12.6
Meekin Brook	Mouth	2.35
Town Lot Brook		
Nichols Brook		
Blake Brook		
Granny Brook		
Rogers Brook	Mouth	2.59
West Branch Mill River	Upstream from Rogers Brook	2.65
Mill River		
Fort River	State Route 47	55.8
Harts Brook	Mouth	2.87
Plum Brook		
Fort River	State Route 116	42.4
Fort River	Southeast Street	41.5
Fort River	400 feet downstream from Southeast Street	*41.5
Hop Brook	Station Road	*14.7
Hop Brook tributary	Warren Wright Street	*1.85
Scarboro Brook	State Route 9	*2.90
Scarboro Brook	Gulf Road	*2.17
Hop Brook	State Route 9	*.78
Fort River	Pelham Road	20.5
Adams Brook		
Hearthstone Brook		
Dean Brook	Upstream from mouth	4.12
Baker Brook		
Nurse Brook		
Amethyst Brook	Valley Road	8.71
Buffum Brook		
Gates Brook		
Harris Brook		
Unnamed tributary	Bridge 0.1 mile upstream from Harris Brook	4.20
Dunlop Brook		
Amethyst Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Mill River	Elm Street	48.5
Running Gutter	State Route 10	7.73
Broad Brook	Mouth	3.70
Mill River	Chestnut Street	*38.1
West Brook	0.2 mile upstream from mouth	10.7
Potash Brook		
Mitchell Brook		
Jimmy Nolan Brook		
Ground Brook		
Avery Brook	Northampton Reservoir outlet	6.12
Sinkpot Brook		
Great Swamp Brook		
Mill River	Depot Road	20.6
Esther Brook		
Roaring Brook	Roaring Brook Road	*3.09
Bloody Brook	Whately Road	5.53
Mill River	North Street	*6.42
Mill River	State Route 116	3.83
Unnamed tributary	Lake Warner outlet	30. 1
Mill River	State Route 116	23.5
Cushman Brook	State Street	*15.4
Doolittle Brook	Upstream from Mountain Brook	4.01
Roaring Brook	Cushman Road	*7.28
Roaring Brook	Leverett Road	3.02
Mountain Brook		
Cow Bridge Brook		
Russellville Brook	Mouth	7.34
Long Plain Brook	West of State Route 63	*2.26
Roaring Brook		
Mohawk Brook		
Dry Brook		
Sugarloaf Brook		
Connecticut River	State Route 116	7916
Clapp Brook		
Unnamed tributary		
Gunn Brook	Mouth	2.22
Cranberry Pond Brook	Downstream from Cranberry Pond outlet	*2.47
Sawmill River	Mouth	32.2
Pond Brook		
Hannegan Brook		
Goddard Brook	Mouth	2.50
Spaulding Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Sawmill River	Upstream from Spaulding Brook	19.5
Chestnut Hill Brook	150 feet upstream from Mouth	2.00
Williams Brook	300 feet upstream from Mouth	1.37
Gardner Brook		
Red Brook	Lake View Road	*2.00
Sawmill River	Lock Pond Road	6.85
Skerry Brook		
Unnamed tributary		
Unnamed tributary		
Fiske Brook		
Unnamed tributary		
Tyler Brook		
Plympton Brook		
South Brook		
Pole Swamp Brook		
Unnamed tributary	Greenfield Road	2.41
Connecticut River	1000 feet downstream from Deerfield River	*7860
Deerfield River		
Fall River	State Route 2	35.5
Fall Brook		
Fall River	0.2 mile downstream from State Route 10	*27.1
Fall River	Burke Falls Road	*25.6
Couch Brook	U.S. Route 5	*2.63
Shattuck Brook	U.S. Route 5	9.95
Beaver Meadow Brook	Mouth	2.23
Shattuck Brook	Upstream from Beaver Meadow Brook	5.14
Fall River	0.2 mile downstream from Massachusetts-Vermont State line and downstream from West Brook	7.77
West Brook		
Connecticut River	Dam	[2] *7163
Millers River		
Fourmile Brook	State Route 63	*4.72
Fisher Brook		
Pine Meadow Brook		
Dry Brook	Main Road	*7.55
Otter Brook	Mouth	3.26
Ashuela Brook		
Otter Run		
Merriam Brook		
Bennett Brook	Old State Route 10	3.46
Bailey Brook		
West Wait Brook	Vermon Road	1.34
East Wait Brook		
Millers Brook		
Roaring Brook	Beers Plain Road	2.40

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CONNECTICUT LOWLANDS BASIN (Continued)		
Connecticut River (Continued)		
Millers Brook	Beers Plain Road	*2.30
Connecticut River	State Route 10	6306
Mallory Brook		
Mill Brook	School Street	8.22
Minot Brook		
Unnamed tributary	White Road	.75
Bottom Brook		
Pauchaug Brook	Mouth	8.63
Louisiana Brook		
Lovers Retreat Brook		
Newton Brook		
Connecticut River	Massachusetts-Vermont-New Hampshire State line	6700
Connecticut River	Vernon Dam	[2]6266
FARMINGTON RIVER BASIN		
Farmington River (Conn.)		
Salmon Brook (Conn.)		
East Branch Salmon Brook		
Hungary Brook (Conn.)		
Mountain Brook		
Palmer Brook		
Bradley Brook		
Dismal Brook		
Fox Brook		
West Branch Farmington River		
Sandy Brook	New Marlborough Road	9.85
North Brook		
Riiska Brook		
Cherry Brook		
Slocum Brook	Colebrook River Road	8.41
Taylor Brook		
Cranberry Pond Brook		
Thorp Brook		
Moody Brook		
Richardson Brook		
West Branch Farmington River	0.3 mile downstream from Clam River	*91.7
Clam River	Mouth	31.4
Clam River	0.2 mile downstream from Buck River	*29.1
Silver Brook	Back Road	*6.69
North Branch Silver Brook		
South Branch Silver Brook		
Buck River	Mouth	8.78
Unnamed tributary	Lower Spectacle Pond outlet	3.34
Unnamed tributary		
Spectacle Pond Brook		

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	FARMINGTON RIVER BASIN (Continued)	
Connecticut River (Continued)		
Farmington River (Conn.) (Continued)		
West Branch Farmington River	Reservoir Road	47.1
Haley Brook		
Miner Brook		
Fall River	0.4 mile downstream from Otis Reservoir	*16.5
Unnamed tributary	Otis Reservoir outlet	15.9
Unnamed tributary	Big Pond outlet	8.30
Unnamed tributary		
Haley Pond outlet	Algerie Road	*.26
Wheeler Brook		
Benton Brook	Mouth	4.19
Dimmock Brook	Mouth	4.28
West Branch Farmington River	Hayden Pond outlet	14.3
Cone Brook		
Unnamed tributary	Shaw Pond outlet	4.53
Thomas Brook	Werden Cross Road	7.03
Unnamed tributary		
Unnamed tributary		
Palmer Brook		
Tyne Brook		
Shales Brook		
East Branch Farmington River (Conn.)		
Hubbard Brook	Massachusetts-Connecticut State line	*20.8
Pond Brook	Mouth	4.84
Halfway Brook		
Babcock Brook	Mouth	7.57
Pond Brook		
Hall Pond Brook	Mouth	2.45
Valley Brook	State Route 20	*7.39
Ellis Brook		
Potash Brook		
	WESTFIELD RIVER BASIN	
Connecticut River		
Westfield River	Mouth	517
Westfield River	0.6 mile downstream from Block Brook	*513
Block Brook		
White Brook		
Miller Brook		
Paucatuck Brook	Mouth	6.30
Paucatuck Brook	Ashley Pond outlet	2.48
Westfield River	0.22 mile upstream from Westfield City boundary	*497
Great Brook	State Route 187	*23.9
Great Brook	Shaker Road	*22.6
Kellog Brook	Shaker Road	*2.92

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	WESTFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Westfield River (Continued)		
Great Brook	Shaker Road	*18.7
Great Brook	1000 feet upstream from Shaker Road	*18.7
Unnamed tributary	North Longyard Road	.19
Great Brook	0.7 mile upstream from Shaker Road	*17.9
Slab Brook	Pond Hollow Road	*1.03
Great Brook	State Route 57	*16.4
Great Brook tributary	500 feet upstream from mouth	*1.60
Great Brook tributary No. 4	State Route 57	*.60
Great Brook tributary No. 3	Powermill Road	*.19
Great Brook	Longyard Road	12.4
Great Brook	Sheep Pasture Road	*12.1
Great Brook tributary No. 2	State Route 57	*.57
Johnson Brook		
Pearl Brook	U.S. Route 202	*1.47
Johnson Brook	U.S. Route 202	*3.67
Tuttle Brook	Jackson Road	*1.39
Johnson Brook	Curtis Road	*1.81
Great Brook	Sheep Pasture Road	*4.47
Powdermill Brook	Mouth	19.2
Pond Brook		
Unnamed tributary	Horse Pond outlet	3.06
Bush Brook		
Barry Brook		
Trask Brook		
Arm Brook	0.25 mile upstream from mouth	*4.43
Arm Brook	1.1 mile upstream from mouth	*2.50
Powdermill Brook	Russellville Road	2.52
Little River	Mouth	85.4
Hundred Acre Brook		
Little River	U.S. Route 202	*82.6
Jacks Brook		
Ashley Brook		
Little River	Dam 1 mile upstream from Jacks Brook	78.5
Munn Brook	Mouth	22.3
Walker Brook		
Jim Brook		
White Brook	Loonis Street	.91
Shurtleff Brook	Loonis Street	*3.62
Drake Brook		
Dickinson Brook		
Japhet Brook		
Dickinson Brook	0.25 mile upstream from Munn Brook	6.62
Dickinson Brook tributary	State Route 189	*.70

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	WESTFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Westfield River (Continued)		
Little River (Continued)		
Munn Brook (Continued)		
Dickinson Brook	State Route 189	3.84
Trumble Brook		
Seymour Brook		
Unnamed tributary	Granville Reservoir outlet	5.24
Tillotson Brook		
Hollister Brook		
Cook Brook	Old Westfield Road	.34
Sodum Brook		
Pitcher Brook		
Little River	Cobble Mountain Reservoir outlet	45.4
Exit Brook	Phelon Road	.68
Phelon Brook		
Borden Brook	Borden Brook Reservoir outlet	8.00
Sugar Creek		
Ripley Brook		
Middle Brook		
Peebles Brook	Inlet to Cobble Mountain Reservoir	24.9
Pond Brook	Blair Pond outlet	3.56
Case Brook	Downstream from Lloyd Brook	4.98
Lloyd Brook		
Henry Brook		
Watson Brook		
Bedlam Brook	Mouth	3.50
Tannery Brook		
Tiffany Brook		
Peebles Brook	0.13 mile upstream from mouth	10.6
Pixley Brook		
Wheeler Brook	Mouth	3.29
Wheeler Brook	Long Pond outlet	.83
Falls Brook		
Richards Brook		
Birch Meadow Brook		
Moose Meadow Brook	Mouth	7.95
Westfield River	Dam at Woronoco	351
Potash Brook	State Road 23	1.51
Pond Brook		
Shatterack Brook		
Westfield River	0.10 mile downstream from Bradley Brook	341
Bradley Brook		
Black Brook	0.8 mile upstream from Stage Brook	2.94

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	WESTFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Westfield River (Continued)		
Bradley Brook (Continued)		
Stage Brook	1.4 mile upstream from mouth	*5.21
Wigwam Brook		
Freeland Brook		
Nye Brook		
Gibbs Brook		
Bearden Brook		
Roaring Brook	Carrington Road	*5.58
Crow Brook		
Horse Hill Brook		
West Branch Westfield River	Mouth	95.7
West Branch Westfield River	1.5 mile upstream from mouth	*94.0
Cold Brook		
Roaring Brook	Fisk Avenue	*3.63
Mica Mill Brook		
Goldmine Brook	Mouth	2.10
Sanderson Brook	Mouth	4.74
Griffin Brook		
Abbott Brook	Mouth	2.59
Blair Brook		
Walker Brook	0.25 mile upstream from mouth	*18.1
Austin Brook	Mouth	1.37
Cushman Brook	Mouth	1.97
Unnamed tributary	Horn Pond outlet	.62
Spark Brook	Mouth	2.62
Walker Brook	Pond inlet 0.3 mile downstream from U.S. Route 20	5.84
West Branch Walker Brook		
Hamilton Brook		
Walker Brook	U.S. Route 20	*2.94
West Branch Westfield River	Highway bridge at Chester	*54.2
Otis Wait Brook	Mouth	1.71
Factory Brook	Mouth	11.3
Factory Brook	Town Hill Road	*8.54
Geer Brook	Garnet Lake outlet	.31
Coles Brook	Mouth	5.52
Unnamed tributary	Center Pond outlet	.99
Yokum Brook	Mouth	8.64
Rudd Pond Brook	Mouth	2.31
Depot Brook		
Shaker Mill Brook	Mouth	6.35
Morgan Brook		
Savery Brook		
Watson Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	WESTFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Westfield River (Continued)		
West Branch Westfield River (Continued)		
Depot Brook	Upstream from Shaker Mill Brook	6.38
Depot Brook	State Route 8	*3.06
Middle Branch Westfield River	Mouth	*52.8
Middle Branch Westfield River	0.25 mile upstream from mouth	*52.8
Middle Branch Westfield River	Hill Road, 0.3 mile upstream from mouth	*52.7
Winchell Brook		
Day Brook	Mouth	2.13
Kinne Brook	0.1 mile upstream from mouth	*5.71
Moss Meadow Brook		
Skunk Brook		
Smith Brook		
Middle Branch Westfield River	Downstream from Glendale Brook	32.7
Glendale Brook	Mouth	6.64
Tuttle Brook	Mouth	3.60
Cone Brook		
Fuller Brook	Mouth	6.25
Pierce Brook		
Fuller Brook	State Route 143	*2.11
Trout Brook	Mouth	5.28
Pond Brook	Mouth	2.77
Pond Brook	Norwich Pond outlet	.93
Sykes Brook	0.4 mile upstream from mouth	*1.73
Westfield River	0.2 mile downstream from Knightville Dam	*161
Westfield River	Knightville Dam	160
Little River	Mouth	15.1
Jackson Brook	Little Galilee Pond outlet	2.67
Watts Stream	Mouth	4.39
Wards Stream	Mouth	4.23
Florida Brook		
Dead Branch	Mouth	21.7
Chauncey Branch		
Pittsinger Brook		
Shop Brook		
Dead Branch	Long Pond outlet	15.7
Thayer Brook		
Baker Brook		
Page Brook		
Webster Brook	Scout Pond outlet	5.87
Webster Brook	Hammond Pond outlet	3.02
Dead Branch	State Route 143	4.93
Dead Branch	Damon Pond outlet	2.26
Fuller Brook		
Holly Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
WESTFIELD RIVER BASIN (Continued)		
Connecticut River (Continued)		
Westfield River (Continued)		
Rocky Brook		
Whitside Brook	Mouth	0.85
Westfield River	0.2 mile downstream from West Branch	*110
West Branch	Mouth	12
Bronson Brook	Downstream from Steven Brook	9.23
Steven Brook		
Childs Brook		
Kearney Brook	State Route 112	*1.91
Powell Brook		
Bronson Brook	Downstream from Whitmarsh Brook	2.80
Whitmarsh Brook		
Tower Brook	Mouth	2.92
Oak Hill Brook		
Jewel Brook		
Swift River		
North Branch Swift River	State Route 9	6.92
North Branch Swift River	Pleasant Street	2.61
Swift River	State Route 9	*22.9
Stones Brook	Loomis Road	*7.45
Taylor Brook		
Stones Brook	Upstream from Taylor Brook	3.16
Swift River	Upstream from Stones Brook	13.8
Unnamed tributary	Unnamed pond outlet near Paddy Hill	.78
Swift River	State Route 116	11.0
Unnamed tributary	Ford Pond outlet	1.93
Ford Brook		
Swift River	Upstream from unnamed tributary	5.28
Billings Brook	Mouth	1.91
Westfield River	State Route 9	58.5
Meadow Brook	Mouth	4.14
Mill Brook	Mouth	7.65
Mill Brook	High Street	*4.45
Roaring Brook		
Rivulet Brook		
Bartlett Brook	Mouth	1.98
Westfield River	State Route 9	36.9
Westfield Brook	Mouth	12.30
Wolf Brook		
Westfield Brook	High Street	*11.0
Alder Meadow Brook	Mouth	2.68
Mongue Meadow Brook		
Shaw Brook	Mouth	1.14
Hume Brook	Mouth	1.14

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	WESTFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Westfield River (Continued)		
Windsor Jambs Brook	Mouth	6.99
Tower Brook		
Clear Brook		
Phelps Brook		
Windsor Pond Brook		
Westfield River	Upstream from Windsor Jambs Brook	13.9
Steep Bank Brook		
Center Brook	Mouth	*2.94
Drowned Land Brook	Mouth	*4.43
Savoy Hollow Brook		
	CHICOPEE RIVER BASIN	
Chicopee River	Mouth	723
Unnamed tributary		
Abbey Brook		
Chicopee River	300 feet upstream from State Route 33	*714
Cooley Brook	Chicopee Reservoir outlet	4.78
Fuller Brook	Mouth	7.53
Higher Brook		
Harris Brook	Mouth	4.73
Harris Brook	0.2 mile downstream from Road Street	3.75
Harris Brook	Road Street	*2.78
Unnamed tributary	Mouth	.50
Harris Brook	0.15 mile upstream from unnamed tributary above Lyon Street	1.22
Higher Brook	Upstream from Harris Brook	5.37
Unnamed tributary	Mouth	.87
Higher Brook	0.58 mile below State Route 21 upstream from unnamed tributary	2.93
Chicopee River	1000 feet downstream from West Street	*689
Chicopee River	State Route 21	686
Chicopee River	Downstream from Minechoag Brook	683
Minechoag Brook	Mouth	1.26
Spear Brook		
Twelvemile Brook	Mouth	14.4
Calkins Brook	Mouth	3.27
Maxwell Brook		
Cadwell Brook	Mouth	1.47
Twelvemile Brook	Upstream from Cadwell Brook	7.17
Twelvemile Brook	Pulpi-Rock Pond outlet	6.72
Thayer Brook	Mouth	1.34
Twelvemile Brook	Nieske Road	2.87
Pinnacle Creek		
Chicopee River	Upstream from Twelvemile Brook	665

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CHICOPEE RIVER BASIN (Continued)		
Connecticut River (Continued)		
Chicopee River	380 feet upstream from East Street	663
Unnamed tributary	Mouth	1.56
Broad Brook	Mouth	12.4
Broad Brook	Alden Pond outlet	11.8
Unnamed tributary	Springfield Reservoir outlet	2.52
Higher Brook	Diversion to reservoir	
Broad Brook	Belchertown-Ludlow town Line	7.42
Roaring Brook	State Route 21	*2.74
Axe Factory Brook		
Broad Brook	Jabish Canal	2.81
Unnamed tributary	Mouth	.77
Quaboag River	Mouth	212
Chicopee Brook	Mouth	24.1
Chicopee Brook	State Route 32	*22.5
Conant Brook	Mouth	8.99
Conant Brook	0.2 mile downstream from Conant Brook Reservoir	7.93
Vinica Brook	180 feet downstream from Norcross Ponds (number 1) outlet	2.34
Chicopee Brook	Maple Street	*4.73
Calkins Pond outlet	Bumstead Road	*.62
Foskett Mill Stream	Mouth	9.99
Foskett Mill Stream	Old Palmer Road	*6.56
Foskett Mill Stream	Sutcliffe Road	2.98
Bottle Brook	Mouth	1.14
Kings Brook	State Route 67	*3.97
Penny Brook	Mouth	1.63
Turkey Brook		
Blodgett Mill Brook	West Brimfield Road	*7.71
Blodgett Mill Brook	0.8 mile upstream from mouth	7.52
Tufts Brook		
Taylor Brook	Mouth	1.82
Quaboag River	0.9 mile upstream from Blodgett Mill Brook	*150
Unnamed tributary	Mouth	.60
School Street Brook	School Street	*1.21
O'Neil Brook	State Route 67	*2.08
Cheney Brook	State Route 67	*1.30
Quaboag River	Old West Brookfield Road	135
Sullivan Brook	Mouth	1.35
Unnamed tributary		
Naultaug Brook	State Route 67	*3.55
Lamberton Brook	Old Warren Road	*4.44
Unnamed tributary		
Pierce Brook	Brookhaven Lake outlet	1.37

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CHICOPEE RIVER BASIN (Continued)		
Connecticut River (Continued)		
Chicopee River (Continued)		
Quaboag River (Continued)		
Unnamed tributary		
Bradish Brook		
Mill Brook	Mouth	14.3
Sucker Brook	Mouth	2.40
Mill Brook	Shay Road	*11.4
Meadow Brook	Mouth	8.53
Meadow Brook	West Brookfield Road	*7.31
Sucker Brook	Cusky Pond outlet	.64
Coys Brook	State Route 9	*7.82
Burr Brook		
Salmon Brook	Mouth	1.73
Willow Brook		
Unnamed tributary	Mouth	3.97
Trout Brook	400 feet upstream from Rice Reservoir	*2.62
Dunn Brook	Mouth	6.35
Forget-me-not Brook		
Quaboag River	Quaboag Pond outlet	77.6
East Brookfield River		
Great Brook	Podunk Street	*4.39
Sevenmile River	Cove Street	*40.4
Cranberry River	Mouth	6.37
Turkey Hill Brook	Mouth	17.5
Unnamed tributary		
Shaw Brook	Moose Hill Road	*4.76
Caruth Brook	40 feet upstream from Spring Street	*2.27
Sevenmile River	Cooney Road	*8.68
Sevenmile River	Browning Pond Road	3.91
East Brookfield River	700 feet downstream from State Route 9	*25.3
Fivemile River		
Unnamed tributary		
Horse Pond Brook	Horse Pond Dam	3.69
Fivemile River	Brook's Pond outlet	13.9
North Brook		
Maynard Brook	North Brookfield Road	*1.82
Fivemile River	Dean Pond outlet	2.30
Ware River		
Unnamed tributary	Mouth	.84
Swift River	Mouth	216
Jabish Brook	Mouth	19.4
Unnamed tributary	Mouth	1.30
Jabish Brook	State Route 9	*6.10
Jabish Brook	Gold Street	*1.51
Swift River	1.4 miles downstream from Quabbin Reservoir	*189

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CHICOPEE RIVER BASIN (Continued)		
Connecticut River (Continued)		
Chicopee River (Continued)		
Ware River (Continued)		
Swift River	Quabbin Reservoir outlet	188
Cadwell Creek	200 feet upstream from mouth	*2.55
Cadwell Creek	2 miles upstream from mouth	*.60
Chaffee Brook		
Gulf Brook		
Purgee Brook		
Briggs Brook	Mouth	1.13
Atherton Brook	Mouth	2.60
Town Farm Brook		
Osgood Brook		
Cobb Brook	Mouth	0.84
West Branch Swift River		
Camel Brook	Mouth	1.13
West Branch Swift River trib.	Cooleyville Road	*3.86
West Branch Swift River	Cooleyville Road	*6.88
Rocky Run		
West Branch Swift River	Upstream from Rocky Run	5.43
Thurston Brook		
Gibbs Brook		
Prescott Brook	Mouth	2.64
Egypt Brook	Mouth	.92
Underhill Brook	Mouth	2.12
Hop Brook	1.5 miles upstream from mouth	*3.39
Giles Brook		
Moosehorn Brook		
Manning Brook		
Spriggy Brook		
Middle Branch Swift River	Elm Street	*4.77
West Branch Fever Brook	Mouth	4.47
East Branch Fever Brook	Mouth	8.69
East Branch Swift River	100 feet upstream from regulating dam	*43.7
East Branch Swift River	Inlet to Pattapaug Pond	34.6
Silver Brook	Mouth	2.45
East Branch Swift River	State Route 32	21.6
Rutland Brook		
Moccasin Brook	Mouth	7.12
Lorinda Brook		
Stony Brook		
East Branch Swift River	State Route 101	*5.60
Bigelow Brook	Mouth	1.76
East Branch Swift River	Upstream from Bigelow Brook	2.91
Popple Camp Brook		
Shattuck Brook		
Sunk Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	CHICOPEE RIVER BASIN (Continued)	
Connecticut River (Continued)		
Chicopee River (Continued)		
Ware River	Upstream from Swift River	217
Unnamed tributary	Forest Lake outlet	3.64
Penny Brook	Mouth	7.02
Beaver Brook	Mouth	6.12
Beaver Brook	Beaver Lake outlet	5.44
Beaver Brook	Beaver Lake inlet	2.98
Ware River	Upstream from Penny Brook	200
Ware River	1.8 miles upstream from Penny Brook	*197
Flat Brook	State Route 32	*6.60
King Brook		
Muddy Brook	Mouth	19.99
Muddy Brook	Hardwick Pond outlet	14.94
Newton Brook	Mouth	3.25
Elwell Brook		
Canterbury Brook	Mouth	0.92
Muddy Brook	Greenwich Road	*4.04
Danforth Brook	Mouth	1.97
Ware River	State Route 32	159
Danforth Brook	State Route 32	5.43
Danforth Brook	State Route 32A	*4.01
Fish Brook	Mouth	1.50
Fish Brook	Goddard Road	*1.20
Moose Brook	Mouth	10.04
Moose Brook	Hardwick Road	*4.63
Winimusset Brook	Hardwick Road	*6.10
Broadmeadow Brook	Mouth	1.49
Pine Hill Brook	Glazer Road	*2.25
Pratt Brook		
Burrow Brook	Mouth	3.15
Burrow Brook	Adams Pond outlet	.47
Bell Brook	Woods Road	*3.50
Ware River	State Route 32	115
Prince River	Mouth	13.9
Smith Brook	Loring Road	*.75
Galloway Brook	South Street	*1.62
Dicks Brook		
Pleasant Brook	0.35 mile upstream from mouth	*2.54
Pleasant Brook	State Route 62	*1.22
Prince River	above Pleasant Brook	6.83
Prince River	Old Reservoir outlet	3.46
Prince River	Petersham Road	1.54
Ware River	300 feet downstream from Powermill Pond	*98.1

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
CHICOPEE RIVER BASIN (Continued)		
Connecticut River (Continued)		
Chicopee River (Continued)		
Ware River	Intake works	*96.3
Ware River tributary	State Route 122	*4.89
Potash Brook	Coldbrook Road	*.51
Canesto Brook	Mouth	30.9
Burnshirt River		
Steep Gutter Branch	Mouth	.69
Burnshirt River	Upstream from Steep Gutter Branch	13.8
Burnshirt River	Williamsville Pond outlet	11.1
Burnshirt River	Stone Bridge Pond outlet	7.44
Wine Brook	Mouth	3.62
Unnamed tributary	Queen Lake outlet	.70
Canesto Brook	State Route 62	12.7
Natty Pond Brook	Hale Road	*5.49
Natty Pond Brook	Williamsville Road	*2.41
Canesto Brook	Williamsville Road	*4.59
Ware River	700 feet downstream from Barre Falls Reservoir	*55.1
West Branch Ware River	Mouth	16.6
West Branch Ware River	Brigham Pond outlet	11.3
Mason Brook	Mouth	7.52
Joslin Brook	Mouth	5.86
Unnamed tributary	Cunningham Pond outlet	2.22
Unnamed tributary	Waite Pond outlet	.92
Joslin Brook	Lovewell Pond outlet	1.83
Mason Brook	Upstream from Joslin Brook	.72
Mason Brook	Moosehorn Pond outlet	.27
Unnamed tributary	Marcan Pond outlet	2.55
East Branch Ware River		
Stevens Branch		
Longmeadow Brook		
Mill Brook	0.55 mile upstream from mouth	3.48
Mill Brook	Thayer Pond outlet	2.46
Unnamed tributary	Moulton Pond outlet	1.71
Longmeadow Brook	Whitehall Pond outlet	5.38
East Branch Ware River	0.8 mile downstream from Pommogussett Brook	22.1
Pommogussett Brook	Mouth	2.36
Pommogussett Brook	Edson Pond outlet	2.04
East Branch Ware River	above Pommogussett Brook	18.3
Unnamed tributary	Asnacomet Pond outlet	.83
Unnamed tributary	Mare Meadow Reservoir outlet	3.03
East Branch Ware River	Bickford Pond outlet	3.32
West Wachusett Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	DEERFIELD RIVER BASIN	
Connecticut River (Continued)		
Deerfield River	Mouth	663
Green River	Mouth	89.8
Graves Brook		
Wheeler Brook	Mouth	2.52
Smead Brook		
Arms Brook		
Green River	U.S. Route 91	82.3
Mill Brook	0.3 mile upstream from mouth	*10.8
Cherry Rum Brook		
Mill Brook		
McCard Brook		
Mill Brook	Log Plain Road	*4.39
Mill Brook	Eden Trail	*2.80
Allen Brook	Mouth	3.24
Allen Brook	Peckville Road	*.72
Punch Brook	Plain Road	*6.34
Hinsdale Brook	Greenfield Road	3.74
Stewart Brook		
Glen Brook	Mouth	7.29
East Glen Brook	100 feet upstream from mouth	1.71
Glen Brook	Private road	*2.31
Brandy Brook		
Green River	150 feet downstream from water-supply dam	*52.3
Workman Brook		
Green River	100 feet upstream from Workman Brook	*50.9
Browning Brook		
Katley Brook		
Stafford Brook	200 feet upstream from mouth	*2.38
Johnson Brook		
Hibbard Brook		
Green River	0.5 mile upstream from West Leyden Road	*41.4
Harris Brook		
Thorne Brook		
Borden Brook		
Miller Brook		
Green River	400 feet upstream from Borden Brook	*35.1
Sheldon Brook		
The Oxbow		
Fuller Swamp Brook		
Hawks Brook		
Deerfield River	0.4 mile downstream from South River	*557
South River	Mouth	26.3
Chadwick Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
DEERFIELD RIVER BASIN (Continued)		
Connecticut River (Continued)		
Deerfield River (Continued)		
South River	Reed Bridge Road	*24.1
Pumpkin Hollow Brook		
Johnny Bean Brook		
Poland Brook	Mouth	6.67
Nye Brook		
Poland Brook	Poland Road	*4.02
Chapel Brook	Hill Road	1.55
South River	Upstream from Poland Brook	8.89
Creamery Brook	Williamsburg Road	*3.67
South River	State Route 116	2.77
Shingle Brook		
Dragon Brook	Bardwell Ferry Road	*3.57
Hawkes Brook		
Great Brook		
Bear River	Shelburne Falls Road	10.5
Pea Brook		
Drakes Brook	Mouth	3.46
Sids Brook		
Schneck Brook		
Sluice Brook		
Deerfield River	Dam 0.1 mile downstream from State Route 2A	499
North River	Mouth	92.9
Houghton Brook		
Holden Brook		
Meadow Brook		
North River	1.3 miles upstream from mouth	*89.0
Johnson Brook		
Fox Brook		
McClellan Brook		
East Branch North River		
Foundry Brook	Adamsville Road	*2.15
East Branch North River	100 feet downstream from Foundry Village	*51.2
Spur Brook		
East Branch North River	State Route 112	46.1
Randall Brook		
West Branch North River	Bridge on private road	*29.8
Cary Brook		
Taylor Brook	Heath Road	*5.18
Kinsman Brook		
Davenport Brook		
Tissdell Brook		
West Branch North River	Hillman Bridge	*20.3
Sanders Brook	Colrain Road	*3.99
West Branch Brook	Downstream from Burrington Brook	11.0

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
DEERFIELD RIVER BASIN (Continued)		
Connecticut River (Continued)		
Deerfield River (Continued)		
North River (Continued)		
West Branch North River (Continued)		
West Branch Brook (Continued)		
Burrington Brook		
Underwood Brook		
West Branch Brook	State Route 8A	*6.90
Dickenson Brook		
Carley Brook		
Burton Brook		
West Branch Brook	Underwood Hill Road	2.81
Deerfield River	Upstream from North River	404
Clesson Brook		
Clark Brook	State Route 112	*2.82
Clesson Brook	State Route 112	*18.2
Upper Branch Clesson Brook	State Route 112	*5.77
Smith Brook		
Upper Branch Clesson Brook	Upstream from Smith Brook	2.59
Clesson Brook	Hawley Road	*7.50
Sheperd Brook		
Ruddock Brook		
Clesson Brook	Cemetery Road	4.51
Cooley Brook		
East Oxbow Brook		
Wilder Brook		
Third Brook		
Second Brook		
Avery Brook	Heath Road	*3.85
First Brook		
Hartwell Brook		
Willis Brook		
Albee Brook		
Deerfield River	2.5 miles downstream from Chickley River	*361
Wheatherby Brook		
Mill Brook	100 feet downstream from dam	*11.9
Maxwell Brook	State Route 8A	*2.94
Tatro Brook		
Mill Brook	State Route 8A	*7.80
Davis Mine Brook	Mouth	3.14
Heath Brook		
Rice Brook		
Bozrah Brook	West Hawley Road	*3.90
Hawks Brook		
Legate Hill Brook	Legate Hill Road	*2.62
Patch Brook		

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	DEERFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Deerfield River (Continued)		
Chickley River	Chickley Road	*27.1
Chickley River	1.8 miles upstream from mouth	*25.5
Mill Brook	Middle Road	*6.30
Potash Brook		
Mill Brook	Middle Road	2.67
North Brook		
King Brook	200 feet upstream from mouth	*5.24
Basin Brook	Mouth	2.51
Chickley River	State Route 8A	*8.68
Fuller Brook		
Brown Brook		
Chickley River	Scott Road	3.56
Tilton Brook		
Horsefords Brook		
Cold River	Mouth	31.7
Trout Brook		
Cold River	0.9 mile upstream from mouth	*29.6
Cold River	1.1 miles upstream from mouth	29.5
Wheeler Brook		
Black Brook	100 feet upstream from mouth	*3.81
Manning Brook		
Cold River	Upstream from Manning Brook	21.9
Gulf Brook		
Tannery Brook	Mouth	2.89
Ross Brook		
Baker Brook		
Parker Brook		
Gulf Brook	Upstream from Tannery Brook	3.74
Bog Brook		
Tower Brook	Mouth	3.54
Staples Brook		
Cold River	South County Road	*6.47
White Brook		
Green River		
Todd Brook		
Pelham Brook	900 feet upstream from mouth	*13.5
Steele Brook		
Taylor Brook		
Country Brook		
Rice Brook		
Pelham Brook	300 feet below Shippee Brook	*7.20
Shippee Brook		
Potter Brook	Leshures Road	*1.60
Tuttle Brook		

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	DEERFIELD RIVER BASIN (Continued)	
Connecticut River (Continued)		
Deerfield River	Bridge at Hoosac Tunnel Station	258
Reed Brook		
Whitcomb Brook		
Cascade Brook		
Deerfield River	400 feet downstream from Fife Brook	*254
Fife Brook	River Road	*2.12
Hunt Brook		
Smith Brook		
Dunbar Brook	Mouth	10.8
Haley Brook		
Parsonage Brook		
Dunbar Brook	20 feet upstream from South Road	*7.03
Granger Brook		
Phelps Brook		
Lord Brook		
Tower Brook		
Wheeler Brook		
Deerfield River	Sherman Reservoir outlet	235
	MILLERS RIVER BASIN	
Connecticut River		
Millers River	Mouth	389
Lyons Brook	Mouth	3.53
Schoolhouse Brook		
Mormon Hollow Brook	Mouth	5.54
Baker Brook		
Gate Hill Brook		
Wickett Brook		
Millers River	Bridge at Farley	*372
Briggs Brook		
Packard Brook		
Keyup Brook	Mouth	7.08
Jacks Brook	Mouth	2.01
Osgood Brook	Mouth	3.80
Whetstone Brook	0.5 mile upstream from mouth	*4.88
Millers River	Railroad bridge 500 feet downstream from State Route 2	*349
Moss Brook	Mouth	12.2
Moss Brook	0.2 mile upstream from mouth	*12.1
Darling Brook	Mouth	7.42
Wilson Brook		
Darling Brook	Moores Pond outlet	2.27
Grace Brook		
Orcutt Brook	Mouth	10.1

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	MILLERS RIVER BASIN (Continued)	
Connecticut River (Continued)		
Millers River (Continued)		
Orcutt Brook	Hubbards Pond outlet	7.23
Gales Brook	Gales Pond outlet	3.22
Hodge Brook		
Rum Brook		
Black Brook		
North Pond Brook	State Route 2	1.65
Coolidge Brook		
Fall Hill Brook		
Gulf Brook		
Red Brook		
Shingle Swamp Brook	0.75 mile upstream from mouth	*1.61
Lake Rohunta Outlet	300 feet downstream from State Route 2	*20.3
Cold Brook		
Ellinwood Brook	White Pond outlet	4.25
Thrower Brook	Mouth	1.18
Riceville Brook	Mouth	7.19
Nelson Brook		
Willow Brook	North Spectacle Pond outlet	2.53
Bow Brook		
McIver Brook		
West Brook	Mouth	9.14
West Brook	Wheeler Avenue	*5.99
Cheney Brook		
West Brook	Upstream from Cheney Brook	2.64
Poor Farm Brook		
Ice Company Brook		
Mill Brook	Lake Ellis outlet	2.90
Tully River	Mouth	73.1
West Branch Tully River	0.6 mile upstream from East Branch Tully River	*17.8
West Branch Tully River	Tully Road	*14.1
Collar Brook	Mouth	4.05
Fish Brook		
West Branch Tully River	Sheomet Lake outlet	5.51
Tully Brook		
East Branch Tully River	300 feet downstream from Tully Dam	*50.5
East Branch Tully River	Tully Lake outlet	50.5
Shepardson Brook		
Lawrence Brook	Athol Pond	26.8
Dunham Brook		
Beaver Brook	Mouth	4.41
Lawrence Brook	Northeast Fitzwilliam Road	*16.4
Lawrence Brook	Fitzwilliam Road	13.6
Boyce Brook	Mouth	4.99

Table 1.--Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	MILLERS RIVER BASIN (Continued)	
Connecticut River (Continued)		
Millers River (Continued)		
Tully River (Continued)		
East Branch Tully River	Upstream from Boyce Brook	13.5
Tully Brook		
Falls Brook	Mouth	3.03
Millers River	Upstream from Tully River	203
West Gulf Brook		
Gulf Brook		
Buckman Brook	Mouth	1.46
Rich Brook		
Thousand Acre Brook	Mouth	3.90
Millers River	500 feet downstream from bridge	*189
Beaver Brook	0.9 mile upstream from mouth	*8.88
Hoyt Brook		
Lamb City Brook		
Kendall Brook		
Chickering Brook		
Dunn Brook		
Kenny Brook		
Unnamed tributary		
Stockwell Brook		
Millers River	Birch Hill Reservoir outlet	178
Otter River	Mouth	61.6
Otter River	Old bridge 0.8 mile upstream from mouth	60.9
Beaman Brook	Stoddard Pond outlet	3.15
Trout Brook		
Norcross Hill Brook		
Trout Brook	Unnamed road 300 feet upstream from mouth	*7.93
Crow Hill Brook		
Otter River	State Route 68	42.41
Unnamed tributary	Hilchey Pond outlet	3.17
Bailey Brook		
Otter River	Turner Street	*34.1
Unnamed tributary		
Wilder Brook	Clark Street	*2.35
Perley Brook	Perley Brook Reservoir outlet	2.75
Otter River	State Route 101	*20.0
Otter River	State Route 2A	*19.2
Pond Brook	Mouth	1.48
Otter River	Upstream from Pond Brook	16.7
Unnamed tributary		
Hubbardston Brook	Mouth	2.47
Baker Brook		
Mahoney Brook	100 feet upstream from South Main Street	7.66
Foster Brook		
Templeton Brook	Mouth	4.52

Table 1.—Stream-order listing, selected drainage areas, and locations of subbasins within the Connecticut River basin (Continued)

Stream name	Location	Drainage area, in square miles
	MILLERS RIVER BASIN (Continued)	
Connecticut River (Continued)		
Millers River (Continued)		
Unnamed tributary	Lake Dennison outlet	3.45
Priest Brook	Mouth	24.3
Priest Brook	100 feet downstream from Winchendon Road	*19.4
Scott Brook		
Towne Brook	Mouth	2.50
Scott Brook	Upstream from Towne Brook	14.6
Millers River	New Boston Road	*84.6
Millers River	Nolan Bridge	*81.8
Tarbell Brook	Mouth	26.5
Robbins Brook		
Tarbell Brook	0.1 mile downstream from Spud Brook	*17.8
Spud Brook		
North Branch Millers River	Lake Monomonac outlet	18.4
Millers River	Glenallan Street	30.1
Millers River	200 feet downstream from State Route 12	*23.7
Unnamed tributary	Lower Naukeag Lake outlet	11.1
Unnamed tributary	Upper Naukeag Lake outlet	2.30
Unnamed tributary	Lake Watatic outlet	6.12
Unnamed tributary	Wallace Pond outlet	3.88
Binney Hill Brook		
Millers River	Sunset Lake outlet	6.66
Estees Brook		
Bluefield Brook	Mouth	1.10
Bear Meadow Brook	Mouth	3.18
	ASHUELOT RIVER BASIN	
Ashuelot River (N.H.)	Mouth	421
Mirey Brook		
Roaring Brook (N.H.)		
Sprague Brook		
Black Brook		
Mirey Brook	State Route 78	*4.30
Mountain Brook		
Kidder Brook		

[1] From Thomas, 1972.
[2] From U.S. Geological Survey, 1980.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		CONNECTICUT RIVER LOWLANDS BASIN			
2	01161300	Millers Brook at Northfield, Mass.	Beers Plain Road	1964-81	Peak-flow site.
		MILLERS RIVER BASIN			
6	01161500	Tarbell Brook near Winchendon, Mass.	0.1 mile downstream from Spud Brook	1917-81	Some regulation by Pearly and Sip Ponds and Damon Reservoirs. Prior to 1967, greater regulation by these reservoirs and by small mill. Water-quality records 1965-66.
7	01162000	Millers River near Winchendon, Mass.	Nolan Bridge	1917-81	Regulated by Lake Monomonac and other reservoirs and, prior to 1957, by powerplant. Water-quality records 1957, 1965-66.
9	01162500	Priest Brook near Winchendon, Mass.	100 feet downstream from bridge	1917, 1919-34 1937-81	Prior to 1962, occasional diurnal fluctuation at low flow by mill. Prior to 1953, regulation at low flow by mill and ponds. Water-quality records 1965-66.
11	01163000	Otter River near Gardner, Mass.	State Route 101	1917	Occasional fluctuations caused by operation of filter plant.
12	01163100	Wilder Brook near Gardner, Mass.	Clark Street	1964-74	Peak-flow site. Discontinued.
13	01163200	Otter River at Otter River, Mass.	Turner Street	1966-81	Water-quality records 1965-66.
17	01164000	Millers River at South Royalston, Mass.	0.4 mile downstream from Beaver Brook	1940-81	Regulated by Lake Monomonac and other reservoirs, by mills and powerplants prior to 1955, and at high flow by Birch Hill Reservoir since 1941. Water-quality records 1957, 1965-66.

Table 2.—Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		MILLERS RIVER BASIN (Continued)			
19	01165000	East Branch Tully River near Athol, Mass.	300 feet downstream from Tully Dam	1917-81	Regulated by Tully Reservoir since 1948. Water-quality records 1965-66.
24	01165300	Lake Rohunta Outlet near Athol, Mass.	300 feet downstream from Daniel Shays Highway	1966-81	Regulated by Lake Rohunta. Water-quality records 1965-66
26	01165500	Moss Brook at Wendell Depot, Mass.	0.2 mile upstream mouth	1917-81	Water-quality records 1966.
29	01166500	Millers River at Erving, Mass.	Bridge at Farley	1916-81	Regulated by powerplants and by Lake Monomonac and other reservoirs, high flow regulated by Birch Hill Reservoir since 1941 and Tully Reservoir since 1948. Greater regulation by powerplants prior to 1966. Water-quality records 1953, 1965-66.
		CONNECTICUT RIVER LOWLANDS BASIN			
30	01167000	Connecticut River at Turners Falls, Mass.	Dam	1916-81	Discharge computed by adding flow over and through dam, flow through canal, and flow through power stations. Discharge furnished by Western Massachusetts Electric Company. Regulated by powerplants, by several lakes, and by reservoirs. Water-quality records 1973-74.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		DEERFIELD RIVER BASIN			
37	01168151	Deerfield River near Rowe, Mass.	400 feet downstream from Fife Brook	1975-81	Regulated by Somerset and Harriman Reservoirs, and by several powerplants.
54	01168500	Deerfield River at Charlemont, Mass.	2.5 miles downstream from Chickley River	1914-81	Regulated by Somerset Reservoir since 1924 by Harriman Reservoir, and by several powerplants.
67	01169000	North River at Shattuckville, Mass.	1.3 miles upstream from mouth	1941-81	Diurnal fluctuation at times. Greater regulation at times prior to 1950. Water-quality records 1957, 1976-69.
72	01169900	South River near Conway, Mass.	Reeds Bridge	1967-81	Water-quality records 1967-69.
73	01170000	Deerfield River near West Deerfield, Mass.	0.4 mile downstream from South River	1941-81	Regulated by Somerset and Harriman Reservoirs. Water-quality records 1953, 1967-70.
75	01170100	Green River near Colrain, Mass.	0.5 mile upstream from West Leyden Road	1968-81	Water-quality records 1968-69.
81	01170200	Allen Brook near Shelburne Falls, Mass.	Peckville Road	1964-74	Peak-flow site. Discontinued.
		CONNECTICUT RIVER LOWLANDS BASIN			
85	01170500	Connecticut River at Montague City, Mass.	1000 feet downstream from Deerfield River	1905-81	Regulated by powerplants and by several lakes and reservoirs.
92	01170900	Mill River near South Deerfield, Mass.	North Street	1963-74	Peak-flow site. Discontinued.
97	01171200	Scarboro Brook at Dwight, Mass.	State Route 9	1963-66 1968-74	Peak-flow site. Discontinued.
100	01171300	Fort River near Amherst, Mass.	400 feet downstream from Southeast Street	1967-81	Diversions for municipal supply of Amherst. Water-quality records 1971, 1973.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		CONNECTICUT RIVER LOWLANDS BASIN (Continued)			
106	01171500	Mill River at Northampton, Mass.	3.5 miles upstream from mouth	1940-81	Regulated by mill prior to 1956. Water-quality records 1957-59, 1971, 1973.
109	01171800	Bassett Brook near Northampton, Mass.	State Route 66	1966-74	Discontinued.
111	01171910	Broad Brook near Holyoke, Mass.	Keys Road	1965-81	Peak-flow site.
117	01172000	Connecticut River at Holyoke, Mass.	Holyoke Dam	1880-99	Discharge determined by adding flow over dam and flow through canals. Regulated by mills and reservoirs. Records furnished by Holyoke Water Power Company.
		CHICOPEE RIVER BASIN			
120	01172500	Ware River near Barre, Mass.	700 feet downstream from Barre Falls	1947-81	Prior to August 1955, slight regulation at low flow at times. Regulated by Barre Falls Reservoir since 1958. Diversions at times since 1955 for municipal supply of Fitchburg. Water-quality records 1957.
126	01173000	Ware River at intake works near Barre, Mass.	Intake works	1929-81	Discharge includes diversion as needed for Boston metropolitan district from October 15 to June 14 each year and at other times for emergency flood-control purposes; diversion began in March 1931. Regulated by Barre Falls Reservoir since 1958. Diversion at times since 1955 for municipal supply of Fitchburg.
128	01173040	Pleasant Brook near Barre, Mass.	State Route 62	1965-74	Peak-flow site. Discontinued.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		CHICOPEE RIVER BASIN (Continued)			
134	01173260	Moose Brook near Barre, Mass.	20 feet upstream from Hardwick Road	1964-74	Discontinued.
136	01173330	Fish Brook near Gilbertville, Mass.	Goddard Road	1964-74	Peak-flow site. Discontinued.
140	01173500	Ware River at Gibbs Crossing, Mass.	1.8 miles upstream from Penny Brook	1913-81	Regulated by Barre Falls Reservoir since 1958 and by mills prior to 1967. Diversion at times since 1931 for Boston metropolitan district and since 1955 for municipal supply of Fitchburg. Water-quality records 1953-34.
141	01173900	Middle Branch Swift River at North New Salem, Mass.	Elm Street	1964-74	Peak-flow site. Discontinued.
142	01174000	Hop Brook near New Salem, Mass.	1.5 miles upstream from mouth	1949-81	Water-quality records 1961, 1971-73.
144	01174500	East Branch Swift River near Hardwick, Mass.	100 feet upstream from regulating dam	1938-81	Water-quality records 1957.
147	01174600	Cadwell Creek near Pelham, Mass.	2 miles upstream from mouth	1962-81	
148	01174900	Cadwell Creek near Belchertown, Mass.	200 feet upstream from mouth	1962-81	

Table 2.—Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
		CHICOPEE RIVER BASIN (Continued)			
149	01175500	Swift River at West Ware, Mass.	1.4 miles downstream from Quabbin Reservoir	1913-81	Regulated by Quabbin Reservoir since 1939. Diversion from Ware River River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and at times since 1966 from Quabbin Reservoir to City of Worcester. Water-quality records 1952-54.
153	01175600	Caruth Brook near Paxton, Mass.	Spring Street	1965-81	Peak-flow site.
155	01175670	Sevenmile River near Spencer, Mass.	40 feet upstream from Cooney Road	1962-81	Occasional regulation since 1971.
169	01176000	Quaboag River at West Brimfield, Mass.	0.9 mile upstream from Blodgett Mill Brook	1913-81	Slight diurnal fluctuation at low flow prior to 1956, regulation greater prior to 1938. High flow slightly affected by retarding reservoirs since 1965. Water-quality records 1953, 1967, 1969-70, 1972-74.
176	01176450	Roaring Brook near Belchertown, Mass.	State Route 21	1963-74	Peak-flow site. Discontinued.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
			CHICOPEE RIVER BASIN (Continued)		
177	01177000	Chicopee River at Indian Orchard, Mass.	1,000 feet downstream from West Street	1929-81	Regulated by powerplants, by Quabbin Reservoir since 1939, by Barre Falls Reservoir since 1958, by Conant Brook Reservoir since 1966, and by smaller reservoirs. Diversion since 1941 from Swift River basin and at times since 1931 from Ware River basin for Boston metropolitan district; since 1950 for Chicopee; since 1952 for South Hadley; and at times since 1966 for Worcester; diversions at times since 1955 from Ware River basin for Fitchburg. Diversion from Ludlow Reservoir for Springfield, and prior to 1952, for Chicopee. Water-quality records 1953, 1957.
179	01177100	Chicopee River at Chicopee Falls, Mass.	300 feet upstream from State Route 33	1973-80	Water-quality monitor. Discontinued.
			CONNECTICUT RIVER LOWLANDS BASIN		
180	01177200	Connecticut River at West Springfield, Mass.	800 feet downstream from Memorial Bridge	1972-75, 1977, 1979-80	Water-quality monitor Discontinued.
182	01178000	Mill River at Springfield, Mass.	75 feet upstream from Hancock Street	1940-51	Regulated by powerplant and by Watershops Pond. Discontinued.
			WESTFIELD RIVER BASIN		
186	01178230	Mill Brook at Plainfield, Mass.	High Street	1964-76, 1978-81	Peak-flow site.
190	01178500	Westfield River at West Chesterfield, Mass.	0.2 mile downstream from from West Branch	1947-51	Diurnal fluctuation at low flow.

Table 2.—Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
			WESTFIELD RIVER BASIN (Continued)		
191	01179500	Westfield River at Knightville, Mass.	0.2 mile downstream from Knightville Dam	1910-81	Regulated by Knightville Reservoir since 1941. Water-quality records 1953.
192	01180000	Sykes Brook at Knightville, Mass.	200 feet below State Route 12	1946-73	Discontinued.
193	01180100	Fuller Brook near Peru, Mass.	State Route 143	1967-74	Peak-flow site. Discontinued.
195	01180500	Middle Branch Westfield River at Goss Heights, Mass.	0.3 mile upstream from mouth	1911-81	Regulated by Littleville Lake since 1965. Some diurnal fluctuation at at low flow prior to 1952.
201	01180800	Walker Brook near Becket Center, Mass.	20 feet upstream from State Route 20	1964-77	Water-quality records 1972-77.
204	01181000	West Branch Westfield River at Huntington, Mass.	0.4 mile downstream from Roaring Brook	1936-81	Some diurnal fluctuation at low flow prior to 1950. Water-quality records 1957, 1967-74.
207	01183100	Dickinson Brook tributary at Granville, Mass.	State Route 189	1964-77, 1979-81	Peak-flow site.
229	01183450	Great Brook near Westfield, Mass.	50 feet downstream from Shaker Road	1974-81	Diversion for municipal supply of West Springfield.
231	01183500	Westfield River near Westfield, Mass.	0.7 mile downstream from Great Brook	1915-81	Regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965. High flow slightly affected by retarding reservoirs since 1963. Diversion from Little River for municipal supply of Springfield. Water-quality records 1952-53, 1957, 1967-74.

Table 2.--Summary of daily flow records and peak-flow records available in the Connecticut River basin (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Remarks
			WESTFIELD RIVER BASIN (Continued)		
232	01183600	Westfield River at West Springfield, Mass.	0.6 mile downstream from Block Brook	1973-76	Water-quality monitor. Discontinued.
			CONNECTICUT RIVER LOWLANDS BASIN		
234	01183750	Connecticut River at Agawam, Mass.	1.4 miles upstream from Massachusetts-Connecticut State line	1969-79	Water-quality monitor. Discontinued.
235	01183810	Longmeadow Brook at Pondside Road near Longmeadow, Mass.	Pondside Road	1967-77, 1979-81	Peak-flow site.
236	01184000	Connecticut River at Thompsonville, Mass.	Enfield Dam	1929-81	Discharge includes diverson through canal. Regulated by powerplants, by diversion from Chicopee River basin, and by reservoirs. Water-quality records 1956, 1966-81.
			FARMINGTON RIVER BASIN		
240	01184900	Haley Pond outlet near Otis, Mass.	Algerie Road	1964-74	Peak-flow site. Discontinued.
241	01185100	Fall River below Otis Reservoir, near Otis, Mass.	0.4 mile downstream from Otis Reservoir	1970-81	Regulated by Otis Reservoir.
244	01185500	West Branch Farmington River near New Boston, Mass.	0.3 mile downstream from Clam River	1914-81	Regulated by Otis Reservoir. High flow slightly affected by retarding reservoir since 1966.
245	01187300	Hubbard River near West Hartland, Conn.	Massachusetts-Connecticut State line	1939-55, 1957-81	
246	01187400	Valley Brook near West Hartland, Conn.	State Route 20	1941-72	

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin

Basin characteristics	Station name and site number				
	Millers River at Northfield, Mass. (2)	Tarbell Brook near Winchendon, Mass. (6)	Millers River near Winchendon, Mass. (7)	Priest Brook near Winchendon, Mass. (9)	Wilder Brook near Gardner, Mass. (12)
Area, in square miles	2.30	17.8	81.8	19.4	2.35
Slope, in feet per mile	330	41.7	19.6	27.2	38.5
Length, in miles	2.7	8.0	14.2	11.8	4.0
Elevation, in feet	900	1040	1110	1110	1100
Storage, in percent	.54	11.1	6.47	2.47	14.4
Lake area, in percent	.33	3.10	4.49	1.34	.21
Forest, in percent	88	93	81	85	93
Soils index, in inches	4.4	5.3	5.3	5.3	4.6
Latitude of gage, in decimal degrees	42.6853	42.7125	42.6800	42.6800	42.5950
Longitude of gage, in decimal degrees	72.4531	72.0858	72.0800	72.1200	72.0147
Precipitation, in inches	44.0	44.0	44.5	43.2	42.0
Precipitation intensity for 2-year recurrence interval, in inches	3.0	2.9	2.9	3.0	3.30
Snowfall, in inches	60	65	65	65	65
January minimum temperature, in degrees Fahrenheit	12	12	11	12	13

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Otter River at Otter River, Mass. (13)	Millers River at South Royalston, Mass. (17)	East Branch Tully River near Athol, Mass. (19)	Lake Rohunta outlet near Athol, Mass. (24)	Moss Brook at Wendell Depot, Mass. (26)
Area, in square miles	34.1	189	50.5	20.3	12.1
Slope, in feet per mile	18.1	23.8	51.9	—	48.1
Length, in miles	11.5	22.3	12.8	—	7.2
Elevation, in feet	1050	1070	1060	—	870
Storage, in percent	14.0	—	2.32	—	2.52
Lake area, in percent	3.2	2.89	1.81	—	1.06
Forest, in percent	85	75	81	—	94
Soils index, in inches	4.6	4.8	6.4	—	4.8
Latitude of gage, in decimal degrees	42.5883	42.6297	42.6422	42.5703	42.6000
Longitude of gage, in decimal degrees	42.0414	72.1508	72.2611	72.2728	72.3600
Precipitation, in inches	42.0	43.4	42.2	—	44.5
Precipitation intensity for 2-year recurrence interval, in inches	2.9	2.9	3.0	—	3.0
Snowfall, in inches	60	62	62	—	60
January minimum temperature, in degrees Fahrenheit	13	11	11	—	13

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Millers River at Erving, Mass. (29)	Connecticut River at Turners, Falls, Mass. (30)	Deerfield River near Rowe, Mass. (37)	Deerfield River at Charlemont, Mass. (54)	North River at Shattuckville, Mass. (67)
Area, in square miles	372	[1]7163	254	361	89.0
Slope, in feet per mile	17.7	—	—	37.4	65.6
Length, in miles	42.8	—	—	53.5	21.0
Elevation, in feet	990	—	—	1970	1440
Storage, in percent	—	—	—	—	.17
Lake area, in percent	2.33	—	—	1.70	.17
Forest, in percent	80	—	—	82	81
Soils index, in inches	5.3	—	—	4.3	4.3
Latitude of gage, in decimal degrees	42.5975	42.6111	42.6825	42.6258	42.6400
Longitude of gage, in decimal degrees	72.4386	72.5556	72.9769	72.8556	72.7300
Precipitation, in inches	43.03	—	—	52.6	48.8
Precipitation intensity for 2-year recurrence interval, in inches	2.8	—	—	3.2	3.1
Snowfall, in inches	58	—	—	100	82
January minimum temperature, in degrees Fahrenheit	11	—	—	10	11

Table 3.--Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	South River near Conway, Mass. (72)	Deerfield River near West Deerfield, Mass. (73)	Green River near Colrain, Mass. (75)	Allen Brook near Shelburne Falls, Mass (81)	Connecticut River at Montague City, Mass. (85)
Area, in square miles	24.1	557	41.4	0.72	7860
Slope, in feet per mile	84.5	46.8	71.8	81.1	3.80
Length, in miles	11.8	69.5	17.4	.99	279
Elevation, in feet	1160	1720	1380	880	1350
Storage, in percent	1.19	—	.30	10.1	—
Lake area, in percent	.28	1.15	.30	.0	.80
Forest, in percent	76	78	89	65	71
Soils index, in inches	4.2	4.3	5.3	4.3	4.8
Latitude of gage, in decimal degrees	42.5419	42.5358	42.7033	42.6128	42.5800
Longitude of gage, in decimal degrees	72.6942	72.6539	72.6711	72.6672	72.5750
Precipitation, in inches	47.0	50.7	46.0	45.0	42.6
Precipitation intensity for 2-year recurrence interval, in inches	3.1	3.2	3.2	3.3	2.6
Snowfall, in inches	65	90	75	70	90
January minimum temperature, in degrees Fahrenheit	12	10	13	12	7

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Mill River near South Deerfield, Mass. (92)	Scarboro Brook at Dwight, Mass. (97)	Fort River near Amherst, Mass. (100)	Mill River at Northampton, Mass. (106)	Bassett Brook near Northampton, Mass. (109)
Area, in square miles	6.42	2.90	[2]41.5	54.0	5.56
Slope, in feet per mile	134	266	—	94.8	39.9
Length, in miles	7.0	2.7	—	16.4	4.2
Elevation, in feet	550	830	—	870	400
Storage, in percent	.73	1.67	—	.83	2.36
Lake area, in percent	.13	.20	—	.81	.27
Forest, in percent	68	93	—	76	73
Soils index, in inches	4.5	4.6	—	3.6	5.4
Latitude of gage, in decimal degrees	42.4692	42.3289	42.3583	42.3200	42.3025
Longitude of gage, in decimal degrees	72.6419	72.4464	72.5064	72.6600	72.6878
Precipitation, in inches	45.0	44.0	—	46.8	46.0
Precipitation intensity for 2-year recurrence interval, in inches	3.3	3.5	—	3.2	3.5
Snowfall, in inches	60	55	—	55	50
January minimum temperature, in degrees Fahrenheit	14	15	—	15	15

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Broad Brook near Holyoke, Mass. (111)	Ware River near Barre, Mass. (120)	Ware River at Intake Works near Barre, Mass. (126)	Pleasant Brook near Barre, Mass. (128)	Moose Brook near Barre, Mass. (134)
Area, in square miles	2.27	55.1	96.3	1.22	4.63
Slope, in feet per mile	80.6	20.4	25.0	102	62.9
Length, in miles	4.6	14.4	17.5	2.3	1.8
Elevation, in feet	460	1010	990	940	1040
Storage, in percent	3.71	4.95	—	5.55	16.1
Lake area, in percent	.52	3.23	3.01	.14	.93
Forest, in percent	53	66	71	63	71
Soils index, in inches	4.3	4.2	4.2	4.2	4.2
Latitude of gage, in decimal degrees	42.1997	42.3906	42.3906	42.4289	42.3978
Longitude of gage, in decimal degrees	72.6864	72.0608	72.0608	72.0764	72.1475
Precipitation, in inches	46.0	45.0	44.2	44.0	43.0
Precipitation intensity for 2-year recurrence interval, in inches	3.5	3.2	3.2	3.3	3.3
Snowfall, in inches	50	62	58	60	60
January minimum temperature, in degrees Fahrenheit	16	15	14	13	13

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Fish Brook near Gilbertville, Mass. (136)	Ware River at Gibbs Crossing, Mass. (140)	Middle Branch Swift River at North New Salem, Mass. (141)	Hop Brook near New Salem, Mass. (142)	East Branch Swift River near Hardwick, Mass. (144)
Area, in square miles	1.20	197	4.77	3.39	43.7
Slope, in feet per mile	122	15.5	118	68.2	38.2
Length, in miles	2.1	38.9	4.00	5.85	14.3
Elevation, in feet	880	910	910	1020	910
Storage, in percent	.0	2.07	2.53	.74	8.39
Lake area, in percent	.0	1.21	.10	.0	2.33
Forest, in percent	36	60	85	84	74
Soils index, in inches	4.2	4.2	4.6	5.3	5.3
Latitude of gage, in decimal degrees	42.3233	42.2353	42.5458	42.4800	42.3900
Longitude of gage, in decimal degrees	72.1864	72.2792	72.3194	72.3330	72.2400
Precipitation, in inches	43.0	43.5	44.0	44.5	44.0
Precipitation intensity for 2-year recurrence interval, in inches	3.5	3.2	3.0	3.2	3.2
Snowfall, in inches	55	57	55	60	60
January minimum temperature, in degrees Fahrenheit	13	14	13	13	14

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Caldwell Creek near Pelham, Mass. (147)	Caldwell Creek near Belchertown, Mass. (148)	Swift River at West Ware, Mass. (149)	Caruth Brook Paxton, Mass. (153)	Sevenmile River near Spencer, Mass. (155)
Area, in square miles	0.60	2.55	[3]189	2.27	8.68
Slope, in feet per mile	187	165	11.8	72.7	47.8
Length, in miles	1.85	3.85	26.0	2.20	7.4
Elevation, in feet	1000	900	800	1000	880
Storage, in percent	.0	.53	1.14	13.8	4.59
Lake area, in percent	.0	.0	1.1	.0	1.98
Forest, in percent	98	98	69	88	75
Soils index, in inches	5.3	5.3	5.3	4.1	4.1
Latitude of gage, in decimal degrees	42.3544	42.3356	42.2678	42.3167	42.2650
Longitude of gage, in decimal degrees	72.3883	72.3700	72.3331	71.9711	72.0053
Precipitation, in inches	45.0	45.0	44.4	44.0	42.0
Precipitation intensity for 2-year recurrence interval, in inches	3.5	3.5	2.9	3.0	3.2
Snowfall, in inches	55	55	58	60	58
January minimum temperature, in degrees Fahrenheit	15	15	13	15	16

Table 3.--Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Roaring Brook near Belchertown, Mass. (176)	Chicopee River at Indian Orchard, Mass. (177)	Mill Brook at Plainfield, Mass. (186)	Westfield River at West Chesterfield, Mass. (190)
Area, in square miles	150	2.74	689	4.45	110
Slope, in feet per mile	8.62	77.9	14.8	56.4	--
Length, in miles	28.3	2.7	58.1	2.6	—
Elevation, in feet	840	550	800	1680	—
Storage, in percent	3.86	1.73	—	.33	—
Lake area, in percent	2.77	.0	1.44	.04	--
Forest, in percent	59	66	53	88	—
Soils index, in inches	4.1	5.0	4.7	4.0	—
Latitude of gage, in decimal degrees	42.1800	42.2353	42.1606	42.5158	42.3967
Longitude of gage, in decimal degrees	72.2600	72.4050	72.5144	72.9250	72.8756
Precipitation, in inches	41.5	46.0	43.1	48.0	—
Precipitation intensity for 2-year recurrence interval, in inches	3.2	3.5	3.2	3.3	—
Snowfall, in inches	55	55	56	65	--
January minimum temperature, in degrees Fahrenheit	15	15	14	11	—

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Westfield River at Knightville, Mass. (191)	Sykes Brook at Knightville, Mass. (192)	Fuller Brook near Peru, Mass. (193)	Middle Branch Westfield River at Goss Heights, Mass. (195)	Walker Brook near Becket Center, Mass. (201)
Area, in square miles	161	1.73	2.11	52.7	2.94
Slope, in feet per mile	41.7	118	40.6	79.0	138
Length, in miles	32.6	3.82	2.13	19.5	3.30
Elevation, in feet	1470	1110	1970	1420	1570
Storage, in percent	.34	6.77	—	.44	2.09
Lake area, in percent	.27	.43	.0	.01	.09
Forest, in percent	69	79	88	66	94
Soils index, in inches	4.0	4.0	3.96	4.0	3.8
Latitude of gage, in decimal degrees	42.2878	42.2900	42.4331	42.2586	42.2636
Longitude of gage, in decimal degrees	72.8647	72.8700	73.0219	72.8731	73.0467
Precipitation, in inches	47.6	44.0	50.0	48.2	47.0
Precipitation intensity for 2-year recurrence interval, in inches	3.2	3.7	3.25	3.2	3.3
Snowfall, in inches	65	65	65	65	65
January minimum temperature, in degrees Fahrenheit	11	11	11	11	11

Table 3.--Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	West Branch Westfield River at Huntington, Mass. (204)	Dickinson Brook tributary at Granville, Mass. (208)	Great Brook near Westfield, Mass. (229)	Westfield River near Westfield, Mass. (231)	Longmeadow Brook at Pondside Road near Longmeadow, Mass. (235)
Area, in square miles	94.0	0.70	22.6	497	4.40
Slope, in feet per mile	54.9	311	—	28.8	43.8
Length, in miles	21.0	1.4	—	53.9	4.4
Elevation, in feet	1420	960	—	1200	150
Storage, in percent	1.07	.0	—	—	1.65
Lake area, in percent	.52	.0	—	.64	.49
Forest, in percent	86	61	—	78	67
Soils index, in inches	4.0	5.5	—	4.2	5.6
Latitude of gage, in decimal degrees	42.2400	42.0647	42.0883	42.1067	42.0394
Longitude of gage, in decimal degrees	72.9000	72.8617	72.7233	72.6994	73.5922
Precipitation, in inches	47.5	48.0	—	47.8	43.0
Precipitation intensity for 2-year recurrence interval, in inches	3.2	3.5	—	3.4	3.5
Snowfall, in inches	65	55	—	62	50
January minimum temperature, in degrees Fahrenheit	11	15	—	11	17

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number					
	Connecticut River at Thompsonville, Mass. (236)	Haley Pond outlet near Otis, Mass. (240)	Fall River below Otis Reservoir, near Otis, Mass. (241)	West Branch Farmington River near New Boston, Mass. (244)	Hubbard River near West Hartland, Conn. (245)	Valley Brook near West Hartland, Conn. (246)
Area, in square miles	[1]9661	0.26	16.5	91.7	20.8	7.39
Slope, in feet per mile	3.56	64.8	—	67.9	91.0	94.4
Length, in miles	329.3	.72	—	16.0	9.6	6.5
Elevation, in feet	1250	1610	—	1510	1370	1100
Storage, in percent	—	10.9	—	—	.0	.0
Lake area, in percent	.84	10.9	—	3.35	.0	.0
Forest, in percent	69	82	—	93	94	88
Soils index, in inches	4.8	3.8	—	4.5	4.74	4.74
Latitude of gage, in decimal degrees	41.9872	42.2042	42.1617	42.0792	42.0370	42.0340
Longitude of gage, in decimal degrees	72.6058	73.0322	73.0633	73.0733	73.9390	72.9300
Precipitation, in inches	43.0	50.0	—	49.5	44.5	44.0
Precipitation intensity for 2-year recurrence interval, in inches	2.8	3.5	—	3.6	2.45	2.50
Snowfall, in inches	80	65	—	65	75	70.0
January minimum temperature, in degrees Fahrenheit	8	11	—	11	13	13

[1] From U.S. Geological Survey, 1980
[2] Includes 5.16 mi^2 drained by Nurse and Dean Brooks flow of which is diverted from basin.
[3] Includes 1.6 mi^2 drained by Beaver Brook flow of which is diverted from Ware River basin.

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations

Annual and monthly flow characteristics:
QA is the mean annual discharge
SDQA is the standard deviation of mean annual discharge
QM is the mean discharge for M calendar month, M = 1 for January where the top line is the maximum mean; the middle line is the mean; the bottom line is the minimum mean.
SDQM is the standard deviation of mean discharge for M calendar month

Low-flow characteristics:
7Q2 is the annual minimum 7-day mean discharge for 2-year recurrence interval
7Q10 is the annual minimum 7-day mean discharge for 10-year recurrence interval

Flow-duration characteristics:
DPT is the daily discharge, exceeded PT percent of the time, from the flow-duration curve

Years of record:
YRSDAY is the number of years of daily flow record for this analysis
YRSLOW is the number of years of low-flow record for this analysis

Flow	Station name and site number				
	Tarbell Brook near Winchendon, Mass. (6)	Millers River near Winchendon, Mass. (7)	Priest Brook near Winchendon, Mass. (9)	Otter River at Otter River, Mass. (13)	Millers River at South Royalston, Mass. (17)
ANNUAL					
QA	31.5	142	32.5	60.0	324
SDQA	6.46	38.7	9.3	13.4	85.5
MONTHLY					
Q10	68.7 16.9 2.02	520 85.7 11.6	69.2 14.8 .55	117 36.6 8.27	841 200 34.6
SDQ10	22.5	83.3	16.8	33.9	201
Q11	57.9 21.3 2.37	416 109 15.7	124 27.3 1.38	118 52.0 11.7	858 273 46.7
SDQ11	16.8	82.9	23.3	30.4	195
Q12	83.2 34.5 7.05	406 133 30.7	111 32.8 4.67	155 64.2 18.1	846 318 93.9
SDQ12	20.0	87.4	22.8	39.1	188

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Tarbell Brook near Winchendon, Mass. (6)	Millers River near Winchendon, Mass. (7)	Priest Brook near Winchendon, Mass. (9)	Otter River at Otter River, Mass. (13)	Millers River at South Royalston, Mass. (17)
MONTHLY (Continued)					
Q1	67.0	371	79.0	149	751
	30.0	136	29.6	59.3	322
	3.46	13.3	1.23	9.64	42
SDQ1	19.8	85.9	18.7	46.1	198
Q2	75.4	400	81.7	153	1034
	31.7	131	26.0	63.4	319
	7.60	24.4	5.28	17.3	78.7
SDQ2	21.5	74.8	18.1	40.9	204
Q3	141	931	162	223	1353
	64.6	262	63.2	110	586
	27.5	39.0	13.6	38.4	152
SDQ3	32.3	148	33.3	48.3	256
Q4	137	789	225	202	1587
	84.7	380	95.5	125	814
	42.6	120	27.6	60.8	359
SDQ4	27.3	161	41.7	43.9	279
Q5	67.8	412	91.9	134	847
	39.3	184	43.2	72.2	448
	19.5	55.0	12.8	27.6	152
SDQ5	13.6	88.2	20.4	27.8	198
Q6	63.7	303	125	121	615
	23.9	107	24.6	45.7	249
	8.35	14.1	2.53	18.2	50.9
SDQ6	16.2	68.8	19.9	30.1	152
Q7	44.9	261	62.5	58.2	420
	12.6	63.3	12.4	25.4	131
	2.81	8.17	1.04	8.2	28.9
SDQ7	11.1	48.0	13.8	15.1	88.6

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Tarbell Brook near Winchendon, Mass. (6)	Millers River near Winchendon, Mass. (7)	Priest Brook near Winchendon, Mass. (9)	Otter River at Otter River, Mass. (13)	Millers River at South Royalston, Mass. (17)
MONTHLY (Continued)					
Q8	44.1	249	68.8	45.9	346
	9.83	50.8	9.35	21.0	104
	2.43	8.24	.47	4.44	22.7
SDQ8	11.2	45.2	12.1	12.0	79.8
Q9	41.7	752	178	75.3	557
	8.87	69.2	12.6	23.2	125
	1.72	5.57	.29	6.06	19.7
SDQ9	10.5	98.9	24.0	18.3	113
LOW FLOW					
7Q2	2.4	15.2	1.6	7.1	38.2
7Q10	1.1	6.9	.38	4.6	22.3
FLOW DURATION					
D99	1.6	7.9	.52	5.4	25.0
D95	2.4	12.9	1.5	8.0	37.3
D90	3.2	18.8	2.4	10.6	51.4
D75	6.9	41.2	6.3	18.9	92.0
D70	8.6	49.3	8.0	21.9	109
D50	18.4	87.0	16.6	39.3	198
D25	40.1	179	39.4	77.8	428
D10	80.2	339	83.1	137	788
YEARS					
YRSDAY	14	65	63	17	40
YRSLOW	13	64	60	16	39

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Tully River near Athol, Mass. (19)	Lake Rohunta outlet near Athol, Mass. (24)	Moss Brook at Wendell Depot, Mass. (26)	Millers River at Erving, Mass. (29)	Connecticut River at Turners Falls, Mass. (30)
ANNUAL					
QA	76.9	35.2	20.0	629	11810
SDQA	22.3	9.20	6.32	166	2308
MONTHLY					
Q10	225	80.8	46.1	1622	22480
	39.9	22.0	8.85	325	6796
	1.21	4.34	1.05	74.0	1681
SDQ10	53.7	26.2	9.57	308	4285
Q11	197	78.9	83.3	1617	36810
	62.5	27.5	16.5	491	10510
	3.67	4.36	1.70	79.7	3815
SDQ11	52.7	21.8	14.3	346	5773
Q12	190	73.0	61.7	1683	24420
	82.6	35.8	20.1	623	10190
	5.64	4.83	3.89	143	2746
SDQ12	51.5	22.7	13.8	371	5176
Q1	169	90.4	47.7	1444	20360
	75.0	36.4	19.1	618	8485
	8.08	3.36	1.52	69.5	2876
SDQ1	44.8	28.3	12.3	367	4023
Q2	236	102	49.7	1852	27590
	81.2	37.6	17.2	579	8247
	17.1	6.03	3.16	132	2224
SDQ2	52.1	29.1	10.7	336	4672
Q3	403	133	131	3989	64400
	138	67.2	40.8	1178	17370
	45.8	18.8	10.6	364	3423
SDQ3	66.6	28.8	20.9	590	10480

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Tully River near Athol, Mass. (19)	Lake Rohunta outlet near Athol, Mass. (24)	Moss Brook at Wendell Depot, Mass. (26)	Millers River at Erving, Mass. (29)	Connecticut River at Turners Falls, Mass. (30)
MONTHLY (Continued)					
Q4	396	123	125	3584	61000
	219	75.5	54.0	1602	34840
	108	25.8	16.8	632	16420
SDQ4	66.2	28.0	23.0	604	10470
Q5	234	96.1	67.2	1652	41080
	112	43.1	27.4	842	20600
	41.5	9.61	6.91	288	6954
SDQ5	44.1	20.9	13.5	341	7922
Q6	188	71.8	64.6	1642	23560
	51.2	25.3	15.4	505	9577
	6.96	5.06	1.45	92.5	3485
SDQ6	38.0	20.0	12.2	306	4724
Q7	95.6	31.0	35.7	1118	23960
	21.9	14.5	7.76	297	5724
	2.59	3.84	1.18	61.7	1907
SDQ7	21.5	9.10	7.31	222	3473
Q8	82.4	34.6	39.4	1052	14590
	19.8	11.3	5.69	231	4404
	.97	3.44	.76	52.6	1886
SDQ8	22.3	7.94	7.19	202	2574
Q9	103	48.6	66.1	3031	27700
	21.4	10.7	6.82	275	4833
	.52	1.69	.73	43.2	1561
SDQ9	24.9	10.9	9.88	393	3752
LOW FLOW					
7Q2	2.6	2.2	1.2	80.1	1860
7Q10	.46	.51	.56	46.8	1250

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Tully River near Athol, Mass. (19)	Lake Rohunta outlet near Athol, Mass. (24)	Moss Brook at Wendell Depot, Mass. (26)	Millers River at Erving, Mass. (29)	Connecticut River at Turners Falls, Mass. (30)
FLOW DURATION					
D99	0.67	0.75	0.74	44.4	145
D95	2.3	3.4	1.3	75.9	1170
D90	4.6	5.0	1.7	103	2240
D75	13.6	8.9	3.9	188	4210
D70	17.5	10.1	4.9	219	4790
D50	41.9	20.9	10.6	390	7330
D25	101	49.4	24.9	816	14400
D10	206	84.0	48.9	1500	27600
YEARS					
YRSDAY	33	17	65	66	67
YRSLOW	32	16	64	65	66

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Deerfield River near Rowe, Mass. (37)	Deerfield River at Charlemont, Mass. (54)	North River at Shattuckville, Mass. (67)	South River near Conway, Mass. (72)	Deerfield River near West Deerfield, Mass. (73)
ANNUAL					
QA	756	900	186	52.7	1283
SDQA	152	194	52.3	12.7	290
MONTHLY					
Q10	1238	2766	832	85.5	4632
	823	609	105	26.3	803
	326	211	11.8	9.32	248
SDQ10	329	417	159	22.9	746
Q11	1233	2123	468	109	3302
	752	841	167	46.1	1147
	215	187	25.4	11.3	244
SDQ11	331	458	127	32.3	716
Q12	1252	2026	522	142	2967
	829	1001	182	55.6	1400
	466	250	49.5	15.3	385
SDQ12	290	365	107	34.9	550
Q1	1502	2092	398	116	2801
	906	1025	146	48.0	1356
	472	389	24.2	7.27	622
SDQ1	412	368	87.4	34.0	502
Q2	1694	2450	801	163	3890
	933	1035	164	54.7	1398
	543	297	36.7	14.1	693
SDQ2	416	370	140	42.5	558
Q3	1846	3521	866	179	4771
	1117	1354	311	92.8	2093
	659	429	91.7	32.3	1083
SDQ3	393	596	197	45.2	854

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Deerfield River near Rowe, Mass. (37)	Deerfield River at Charlemont, Mass. (54)	North River at Shattuckville, Mass. (67)	South River near Conway, Mass. (72)	Deerfield River near West Deerfield, Mass. (73)
MONTHLY (Continued)					
Q4	1458	3468	1076	212	4937
	1045	1761	598	131	2942
	647	664	169	36.2	1041
SDQ4	333	638	218	47.9	954
Q5	1404	2889	617	127	3945
	802	1122	265	75.2	1701
	249	320	104	32.3	516
SDQ5	412	653	121	28.0	868
Q6	800	1686	417	135	2343
	452	651	127	45.7	910
	231	188	28.4	15.0	307
SDQ6	196	337	106	35.0	525
Q7	616	1006	214	60	1658
	370	437	65.6	21.8	541
	225	78.1	17.5	9.25	119
SDQ7	141	222	58.0	15.1	325
Q8	1630	1886	228	57.0	2142
	555	463	51.2	17.7	539
	223	131	12.5	4.86	167
SDQ8	476	287	50.7	14.5	374
Q9	957	2404	306	65.1	2112
	535	521	57.7	16.2	623
	251	74.0	9.00	4.27	94.5
SDQ9	278	340	65.4	14.8	402
LOW FLOW					
7Q2	—	142	13.1	5.8	199
7Q10	—	66.4	8.1	3.6	95.6

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Deerfield River near Rowe, Mass. (37)	Deerfield River at Charlemont, Mass. (54)	North River at Shattuckville, Mass. (67)	South River near Conway, Mass. (72)	Deerfield River near West Deerfield, Mass. (73)
FLOW DURATION					
D99	76.4	59.0	9.6	3.7	68.0
D95	99.4	118	14.9	6.0	168
D90	138	182	20.3	7.6	251
D75	302	376	39.1	13.8	477
D70	365	442	46.9	16.4	551
D50	647	725	91.4	30.4	945
D25	1030	1160	203	62.4	1560
D10	1450	1720	436	119	2670
YEARS					
YRSDAY	7	57	32	15	41
YRSLOW	—	56	31	14	40

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Green River near Colrain, Mass. (75)	Connecticut River at Montague City, Mass. (85)	Fort River near Amherst, Mass. (100)	Mill River at Northampton, Mass. (106)	Bassett Brook at Northampton, Mass. (109)
ANNUAL					
QA	93.4	13720	62.3	95.9	7.89
SDQA	21.6	2696	15.4	28.2	2.91
MONTHLY					
Q10	190	25750	134	456	3.57
	50.2	8029	41.4	51.4	2.32
	14.6	1829	6.94	8.52	.95
SDQ10	53.5	5060	46.9	75.6	.83
Q11	203	42270	124	334	14.3
	79.4	11810	49.0	83.6	6.32
	17.8	2053	9.68	13.2	1.78
SDQ11	57.6	6775	31.7	69.0	4.00
Q12	198	30130	132	227	3.77
	90.5	11990	68.0	96.0	8.88
	28.5	2810	13.3	23.9	16.9
SDQ12	49.9	6214	37.2	56.2	4.81
Q1	178	23890	149	287	15.6
	75.1	10660	68.4	187.5	7.19
	11.6	2732	5.80	15.5	2.25
SDQ1	50.6	5107	47.7	54.6	4.38
Q2	277	33650	184	338	19.5
	86.3	10030	72.6	98.9	9.20
	18.1	2086	21.2	24.1	4.66
SDQ2	69.0	5529	47.8	65.1	4.73
Q3	355	71920	212	475	24.0
	165	20630	130	191	16.3
	53.2	4316	47.1	76.2	9.36
SDQ3	92.4	11620	48.6	81.2	4.42

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Green River near Colrain, Mass. (75)	Connecticut River at Montague City, Mass. (85)	Fort River near Amherst, Mass. (100)	Mill River at Northampton, Mass. (106)	Bassett Brook at Northampton, Mass. (109)
MONTHLY (Continued)					
Q4	442	66290	181	471	25.5
	263	39130	118	235	16.8
	80.1	18620	50.9	78.4	6.06
SDQ4	96.4	11040	37.8	87.7	6.54
Q5	283	47000	126	274	19.0
	141	23780	75.9	131	10.6
	64.5	8080	41.7	46.5	3.64
SDQ5	67.2	8700	27.3	55.4	4.78
Q6	188	26410	152	255	17.2
	75.6	11130	45.5	72.0	6.87
	27.9	4270	19.1	15.9	1.68
SDQ6	51.8	5199	33.3	48.4	5.14
Q7	105	25680	74.8	125	11.8
	43.4	6466	27.1	38.0	4.13
	13.2	2250	10.5	9.13	.82
SDQ7	32.9	3751	17.7	27.4	3.45
Q6	188	26410	152	255	17.2
	75.6	11130	45.5	72.0	6.87
	27.9	4270	19.1	15.9	1.68
SDQ6	51.8	5199	33.3	48.4	5.14
Q7	105	25680	74.8	125	11.8
	43.4	6466	27.1	38.0	4.13
	13.2	2250	10.5	9.13	.82
SDQ7	32.9	3751	17.7	27.4	3.45
Q8	80.4	18150	86.7	254	8.89
	28.9	5234	24.0	35.0	2.7
	9.62	2412	4.40	4.96	.80
SDQ8	22.7	2983	19.9	40.9	2.29

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Green River near Colrain, Mass. (75)	Connecticut River at Montague City, Mass. (85)	Fort River near Amherst, Mass. (100)	Mill River at Northampton, Mass. (106)	Bassett Brook at Northampton, Mass. (109)
MONTHLY (Continued)					
Q9	92.2 24.2 8.32	32660 5855 1834	106 24.9 5.75	150 34.0 5.48	5.60 2.12 .77
SDQ9	21.4	4461	25.3	32.1	1.31
LOW FLOW					
7Q2	7.6	2410	8.9	10.1	.89
7Q10	5.0	1690	5.3	6.2	.46
FLOW DURATION					
D99	6.4	675	5.0	6.4	.58
D95	9.0	2010	7.5	9.9	.88
D90	12.2	2920	10.6	13.7	1.3
D75	21.5	4990	18.0	24.1	2.2
D70	25.5	5630	20.8	28.6	2.5
D50	50.9	8660	36.8	54.0	5.1
D25	106	16800	75.4	116	10.7
D10	223	32000	135	217	18.6
YEARS					
YRSDAY	14	77	15	43	12
YRSLOW	13	77	14	42	11

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Ware River near Barre, Mass. (120)	Ware River at Intake Works near Barre, Mass. (126)	Moose Brook near Barre, Mass. (134)	Ware River at Gibbs Crossing, Mass. (140)	Hop Brook near New Salem, Mass. (142)
ANNUAL					
QA	89.7	162	6.80	255	6.10
SDQA	27.1	47.7	2.26	75.7	1.88
MONTHLY					
Q10	203	348	3.61	592	14.7
	46.7	82.7	1.33	158	3.38
	4.17	7.86	.06	29.0	.19
SDQ10	54.1	92.8	1.12	151	4.30
Q11	202	362	9.92	554	16.5
	71.1	122	4.85	215	5.37
	6.78	13.9	.38	39.0	.62
SDQ11	52.8	89.2	2.86	132	4.31
Q12	230	413	22.1	472	14.5
	95.6	167	8.65	266	6.52
	13.1	29.1	2.38	68.5	1.45
SDQ12	60.5	105	6.11	127	3.73
Q1	285	499	16.2	697	16.8
	93.6	169	6.39	280	6.77
	8.14	17.2	1.75	29.6	.58
SDQ1	68.2	123	4.38	182	4.40
Q2	271	488	18.8	802	20.0
	94.0	168	7.50	283	6.96
	18.0	37.5	3.07	77.7	1.8
SDQ2	66.9	114	4.63	160	4.46
Q3	357	664	26.9	813	26.5
	178	321	15.7	448	12.2
	69.3	126	6.44	222	5.13
SDQ3	73.0	134	6.15	132	5.04

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Ware River near Barre, Mass. (120)	Ware River at Intake Works near Barre, Mass. (126)	Moose Brook near Barre, Mass. (134)	Ware River at Gibbs Crossing, Mass. (140)	Hop Brook near New Salem, Mass. (142)
MONTHLY (Continued)					
Q4	427	796	28.1	1318	28.9
	240	429	16.9	516	14.9
	82.5	155	6.01	231	5.22
SDQ4	88.4	162	7.39	214	5.20
Q5	229	396	18.6	547	13.5
	117	212	9.00	342	7.98
	41.8	83.6	3.04	167	2.89
SDQ5	46.2	81.2	4.61	99.2	2.90
Q6	187	324	12.6	519	12.8
	61.0	113	5.23	210	4.41
	14.1	31.2	.56	69.5	.96
SDQ6	42.7	70.1	3.79	109	2.97
Q7	91.0	162	9.07	319	5.08
	33.4	64.7	2.22	137	1.79
	4.49	11.0	.07	36.5	.29
SDQ7	26.2	45.1	2.59	85.2	1.28
Q8	84.0	140	5.67	376	12.4
	23.0	45.6	1.36	103	1.67
	1.97	5.93	.02	25.8	.05
SDQ8	20.1	32.2	1.89	75.4	2.33
Q9	85.3	169	4.40	359	8.80
	24.1	47.6	1.13	109	1.56
	2.44	6.22	.02	23.1	.02
SDQ9	23.5	43.7	1.41	90.2	1.90
LOW FLOW					
7Q2	5.1	13.1	.08	43.5	.11
7Q10	1.3	4.4	.00	22.0	.00

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Ware River near Barre, Mass. (120)	Ware River at Intake Works near Barre, Mass. (126)	Moose Brook near Barre, Mass. (134)	Ware River at Gibbs Crossing, Mass. (140)	Hop Brook near New Salem, Mass. (142)
FLOW DURATION					
D99	2.1	5.6	0.01	24.8	0.03
D95	4.7	11.4	.08	33.8	.14
D90	7.1	17.6	.21	46.4	.32
D75	18.0	37.6	1.0	82.7	1.2
D70	23.6	48.2	1.5	103	1.6
D50	53.2	101	3.7	197	3.6
D25	121	207	8.6	338	7.9
D10	213	385	17.3	523	14.8
YEARS					
YRSDAY	24	24	11	24	34
YRSLOW	23	23	11	23	33

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Swift River near Hardwick, Mass. (144)	Caldwell Creek near Pelham, Mass. (147)	Caldwell Creek near Belchertown, Mass. (148)	Swift River at West Ware, Mass. (149)	Sevenmile River near Spencer, Mass. (155)
ANNUAL					
QA	68.5	1.12	4.73	104	14.0
SDQA	19.7	.35	1.39	66.4	4.07
MONTHLY					
Q10	155	2.94	12.1	222	29.0
	34.0	.68	2.83	79.4	6.69
	2.55	.01	.25	33.7	.79
SDQ10	40.3	.90	3.60	38.9	8.18
Q11	177	2.55	10.3	858	28.0
	57.8	1.01	3.89	91.0	10.5
	6.93	.05	.48	32.0	1.41
SDQ11	41.8	.66	2.57	137	8.16
Q12	161	2.72	10.9	330	37.7
	70.5	1.29	5.18	75.2	15.7
	19.9	.28	1.29	34.1	3.56
SDQ12	40.3	.77	3.09	53.9	10.4
Q1	192	3.41	13.9	224	56.5
	75.6	1.31	5.44	79.3	16.7
	5.3	.09	.43	35.4	2.75
SDQ1	47.4	.98	4.06	46.4	13.8
Q2	202	3.17	13.9	387	44.8
	74.8	1.25	5.36	88.1	17.3
	18.5	.23	1.28	34.3	3.87
SDQ2	43.6	.93	3.80	78.4	11.4
Q3	266	4.73	20.3	330	52.9
	134	2.57	11.1	90.3	30.7
	48.2	.97	4.49	35.2	12.9
SDQ3	51.5	.97	4.18	71.2	10.8

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Swift River near Hardwick, Mass. (144)	Caldwell Creek near Pelham, Mass. (147)	Caldwell Creek near Belchertown, Mass. (148)	Swift River at West Ware, Mass. (149)	Sevenmile River near Spencer, Mass. (155)
MONTHLY (Continued)					
Q4	420	3.47	18.5	1099	51.6
	163	2.27	9.76	185	31.6
	59.9	.77	3.42	35.5	13.4
SDQ4	70.0	.76	3.58	243	11.1
Q5	169	2.54	11.2	775	40.5
	88.7	1.38	5.77	169	17.5
	31.5	.45	2.25	34.6	6.93
SDQ5	34.2	.59	2.38	197	7.47
Q6	141	3.43	13.0	661	39.1
	54.3	.74	3.16	123	9.76
	9.03	.05	.50	35.0	2.78
SDQ6	34.3	.76	2.78	130	8.81
Q7	179	1.34	5.56	301	15.3
	28.8	.32	1.49	87.3	4.60
	3.23	.03	.29	34.7	.80
SDQ7	31.0	.33	1.37	51.3	3.49
Q8	127	1.73	5.27	149	14.4
	20.0	.31	1.33	92.7	3.28
	.80	.00	.17	37.7	.39
SDQ8	24.3	.39	1.28	29.8	3.64
Q9	390	2.11	9.20	139	15.7
	26.6	.33	1.49	88.2	3.73
	.25	.00	.11	38.3	.32
SDQ9	59.2	.50	2.08	29.0	4.29
LOW FLOW					
7Q2	3.2	.00	.18	39.0	.41
7Q10	.12	.00	.09	33.7	.22

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	East Branch Swift River near Hardwick, Mass. (144)	Caldwell Creek near Pelham, Mass. (147)	Caldwell Creek near Belchertown, Mass. (148)	Swift River at West Ware, Mass. (149)	Sevenmile River near Spencer, Mass. (155)
FLOW DURATION					
D99	0.46	0.00	0.11	27.9	0.27
D95	3.3	.01	.20	33.2	.54
D90	6.0	.04	.32	36.9	.94
D75	16.3	.16	.88	42.0	2.9
D70	20.6	.23	1.2	43.4	3.7
D50	41.5	.59	2.6	80.7	8.6
D25	89.8	1.3	5.3	113	19.1
D10	164	2.6	10.5	156	33.1
YEARS					
YRSDAY	45	20	20	35	21
YRSLOW	40	19	19	34	20

Table 4.—Streamflow characteristics, in cubic feet per second at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Chicopee River Indian Orchard, Mass. (177)	Westfield River at West Chesterfield, Mass. (190)	Westfield River at Knightville, Mass. (191)	Sykes Brook at Knightville, Mass. (192)
ANNUAL					
QA	242	860	—	334	2.58
SDQA	68.4	262	—	90.2	.84
MONTHLY					
Q10	607	1953	126	1394	14.1
	122	497	—	187	1.15
	11.9	144	19.3	18.3	.11
SDQ10	138	437	—	252	2.55
Q11	693	3022	281	1155	8.99
	184	717	—	310	2.14
	26.9	154	48.0	36.4	.28
SDQ11	147	573	—	247	1.99
Q12	596	1663	521	989	7.52
	245	839	—	317	2.71
	60.9	241	83.1	76.3	.67
SDQ12	146	431	—	190	1.69
Q1	821	2162	487	1305	6.69
	265	923	—	297	2.34
	46.6	191	71.1	44.7	.66
SDQ1	164	515	—	229	1.36
Q2	748	2374	380	854	6.58
	292	993	—	294	2.61
	65.2	347	123	72.5	.80
SDQ2	160	498	—	185	1.50
Q3	913	2684	824	1429	11.9
	489	1467	—	584	5.13
	207	686	317	185	2.38
SDQ3	164	420	—	292	2.26

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Chicopee River Indian Orchard, Mass. (177)	Westfield River at West Chesterfield, Mass. (190)	Westfield River at Knightville, Mass. (191)	Sykes Brook at Knightville, Mass. (192)
MONTHLY (Continued)					
Q4	1352	3956	1026	1704	13.2
	545	1723	—	975	7.48
	216	636	412	302	2.56
SDQ4	230	730	—	351	3.09
Q5	573	2680	547	912	5.50
	312	1144	—	470	3.54
	128	471	218	166	1.34
SDQ5	122	463	—	210	1.40
Q6	655	2475	459	813	7.28
	176	715	—	235	1.98
	46.6	229	55.4	41.1	.41
SDQ6	136	430	—	183	1.80
Q7	324	1238	129	494	3.63
	93.2	451	—	126	.89
	17.6	159	27.1	25.0	.13
SDQ7	68.6	220	—	115	.93
Q8	1440	3719	89.2	745	9.12
	104	462	—	112	.86
	12.8	176	19.3	17.8	.07
SDQ8	214	587	—	138	1.73
Q9	526	1516	98.8	517	3.19
	82.1	289	—	112	.56
	12.0	160	10.8	14.8	.07
SDQ9	95.1	401	—	123	.71
LOW FLOW					
7Q2	26.6	192	—	21.0	.11
7Q10	13.2	128	—	10.9	.06

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Chicopee River Indian Orchard, Mass. (177)	Westfield River at West Chesterfield, Mass. (190)	Westfield River at Knightville, Mass. (191)	Sykes Brook at Knightville, Mass. (192)
FLOW DURATION					
D99	14.0	113	8.5	10.3	0.07
D95	24.7	178	15.1	23.1	.12
D90	35.2	217	19.9	34.0	.17
D75	67.3	325	40.3	71.7	.40
D70	81.9	369	50.3	87.5	.57
D50	161	617	104	169	1.3
D25	338	1170	261	383	3.1
D10	563	1800	554	837	6.3
YEARS					
YRSDAY	43	35	5	39	28
YRSLOW	42	34	—	38	27

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Middle Branch Westfield River at Goss Heights, Mass. (195)	Walker Brook near Becket Center, Mass. (201)	West Branch Westfield River at Huntington, Mass. (204)	Great Brook near Westfield, Mass. (229)	Westfield River near Westfield, Mass. (231)
ANNUAL					
QA	113	6.67	189	—	938
SDQA	30.2	1.84	53.5	—	270
MONTHLY					
Q10	228	11.5	1041	65.0	4587
	57.4	3.67	99.6	—	538
	.95	.39	13.4	8.84	96.7
SDQ10	69.8	2.80	162	—	764
Q11	210	12.2	544	65.9	3228
	94.4	5.85	171	—	837
	1.49	.93	24.7	11.2	140
SDQ11	68.6	3.16	127	—	644
Q12	335	21.6	664	76.1	2446
	116	7.70	199	—	945
	.57	2.26	39.8	12.2	275
SDQ12	83.2	4.88	123.	—	496
Q1	255	11.1	448	78.2	2635
	95.7	5.18	178	—	901
	.63	1.45	24.3	7.06	155
SDQ1	74.6	3.06	112	—	549
Q2	338	13.0	712	93.1	2527
	112	5.53	182	—	934
	18.7	1.85	35.3	13.2	298
SDQ2	84.9	3.17	124	—	532
Q3	476	26.0	1098	96.8	3443
	214	11.8	376	—	1680
	72.0	2.93	112	28.5	616
SDQ3	111	6.21	224	—	727

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Middle Branch Westfield River at Goss Heights, Mass. (195)	Walker Brook near Becket Center, Mass. (201)	West Branch Westfield River at Huntington, Mass. (204)	Great Brook near Westfield, Mass. (229)	Westfield River near Westfield, Mass. (231)
MONTHLY (Continued)					
Q4	533	31.1	1069	82.1	4009
	302	17.8	501	—	2328
	98.5	8.22	158	22.1	818
SDQ4	119	6.04	209	—	824
Q5	263	15.7	495	63.8	2511
	156	8.11	249	—	1281
	75.4	2.71	82.1	20.3	430
SDQ5	55.3	3.62	114	—	528
Q6	320	21.2	684	37.9	2604
	81.6	4.87	130	—	699
	24.4	1.37	27.1	9.33	186
SDQ6	82.9	5.33	121	—	527
Q7	189	9.99	307	40.0	1738
	48.3	2.79	64.4	—	392
	5.93	.62	9.52	8.48	118
SDQ7	48.1	2.84	65.0	—	322
Q8	118	2.72	632	29.5	3237
	42.2	9.45	59.2	—	385
	4.66	.46	8.46	3.95	91.2
SDQ8	36.3	2.73	97.8	—	527
Q9	172	11.4	579	52.3	1505
	42.1	2.72	66.1	—	348
	1.22	.50	8.93	5.34	98.9
SDQ9	48.8	2.99	101	—	313
LOW FLOW					
7Q2	6.5	.34	10.6	—	116
7Q10	.73	.21	5.6	—	77.3

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Middle Branch Westfield River at Goss Heights, Mass. (195)	Walker Brook near Becket Center, Mass. (201)	West Branch Westfield River at Huntington, Mass. (204)	Great Brook near Westfield, Mass. (229)	Westfield River near Westfield, Mass. (231)
FLOW DURATION					
D99	0.53	0.29	7.2	3.2	81.7
D95	4.0	.43	12.2	6.8	116
D90	8.6	.59	17.4	9.0	153
D75	22.3	1.4	36.3	14.1	260
D70	28.5	1.8	45.1	15.4	307
D50	60.5	3.5	93.9	24.1	551
D25	130	7.7	209	45.8	1130
D10	289	16.6	443	70.2	2250
YEARS					
YRSDAY	16	14	46	8	39
YRSLOW	15	13	45	—	38

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Connecticut River at Thompsonville, Mass. (236)	Fall River below Otis Reservoir, near Otis, Mass. (241)	West Branch Farmington River near New Boston, Mass. (244)	Hubbard River near West Hartland, Conn. (245)	Valley Brook near West Hartland, Conn. (246)
ANNUAL					
QA	16350	37.9	181	39.1	14.2
SDQA	3377	7.30	48.7	12.3	4.92
MONTHLY					
Q10	31730	144	774	82.5	99.6
	9306	86.1	134	16.8	6.79
	2690	16.1	19.9	1.41	.45
SDQ10	6475	39.1	109	18.2	17.2
Q11	31690	122	817	91.3	52.6
	13870	84.0	190	38.1	12.8
	5015	3.65	27.0	4.86	1.42
SDQ11	6992	36.2	131	27.2	11.0
Q12	35000	127	556	132	31.8
	14570	61.3	193	44.6	14.8
	5548	18.1	31.1	8.25	2.17
SDQ12	6772	35.2	110	27.6	8.46
Q1	30180	99.7	430	92.7	39.5
	13640	40.2	178	38.5	12.6
	4311	1.98	20.1	3.47	3.06
SDQ1	6242	29.4	93.2	24.9	7.76
Q2	39100	89.3	608	165	33.5
	13170	36.7	160	39.9	13.5
	4386	5.51	34.7	6.64	3.80
SDQ2	6819	25.0	92.9	29.4	7.86
Q3	89210	110	947	193	67.3
	25060	36.9	302	81.5	29.6
	6965	3.19	88.5	22.0	11.5
SDQ3	14220	33.3	162	39.6	13.0

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Connecticut River at Thompsonville, Mass. (236)	Fall River below Otis Reservoir, near Otis, Mass. (241)	West Branch Farmington River near New Boston, Mass. (244)	Hubbard River near West Hartland, Conn. (245)	Valley Brook near West Hartland, Conn. (246)
MONTHLY (Continued)					
Q4	76050	82.7	828	206	76.3
	45280	28.3	409	96.1	36.6
	20070	2.33	133	30.2	13.5
SDQ4	12930	23.3	170	42.6	16.1
Q5	51520	55.5	488	99.7	37.3
	27670	22.0	213	48.8	18.3
	9611	2.41	61.6	12.2	5.77
SDQ5	10500	18.3	94.3	23.8	7.86
Q6	28050	108	478	124	47.0
	13000	19.3	125	26.2	10.8
	4900	1.70	23.9	3.18	1.89
SDQ6	5668	29.2	84.3	25.4	9.67
Q7	28820	50.9	290	61.8	25.5
	7427	11.8	82.2	12.3	4.69
	3202	1.25	9.26	1.12	.48
SDQ7	4194	15.9	62.9	14.9	5.54
Q8	22530	37.3	1002	270	104
	6515	9.99	94.9	14.4	6.02
	2911	1.55	5.68	.57	.42
SDQ8	4040	11.2	132	42.5	18.7
Q9	42700	59.4	644	88.7	22.4
	7085	16.6	97.6	12.8	3.54
	2719	1.39	12.3	.81	.25
SDQ9	6047	18.7	96.6	18.4	4.73
LOW FLOW					
7Q2	3010	1.4	20.0	1.3	.46
7Q10	2220	1.0	5.9	.50	.24

Table 4.--Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Connecticut River at Thompsonville, Mass. (236)	Fall River below Otis Reservoir, near Otis, Mass. (241)	West Branch Farmington River near New Boston, Mass. (244)	Hubbard River near West Hartland, Conn. (245)	Valley Brook near West Hartland, Conn. (246)
FLOW DURATION					
D99	1740	1.2	8.3	0.54	0.27
D95	2970	1.6	18.4	1.5	.53
D90	3890	1.8	29.3	2.3	.74
D75	6130	2.7	62.7	6.0	2.3
D70	6890	3.1	73.0	7.8	3.0
D50	10500	5.3	117	18.9	7.2
D25	19800	56.2	216	41.9	16.6
D10	37400	123	399	93.3	31.9
YEARS					
YRSDAY	53	12	68	42	32
YRSLOW	52	11	67	40	31

Table 5.--Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			ASHUELOT RIVER BASIN				
1	01160680	Mirey Brook near Warwick, Mass.	State Route 78	1971-72	4.30	1.6	1.2
			CONNECTICUT RIVER LOWLANDS BASIN				
3	01161320	Dry Brook at Gill, Mass.	Main Road	1971-73	7.55	.9	.5
4	01161340	Fourmile Brook near Northfield, Mass.	State Route 63	1971-73	4.72	.1	<.1
			MILLERS RIVER BASIN				
5	01161400	Millers River at Old North Ashburnham Station, Mass.	200 feet downstream from State Route 12	1965-66	23.7	.5	--
8	01162100	Millers River near Baldwinsville, Mass.	New Boston Road	1965-66	84.6	14.0	--
10	01162900	Otter River at Gardner, Mass.	State Route 2A	1965-66, 1978-81	19.2	5.3	2.7
12	01163100	Wilder Brook near Gardner, Mass.	Clark Street	1965	2.35	--	--
14	01163300	Trout Brook at Baldwinsville, Mass.	Royalston Road	1965-66	7.93	1.7	--
15	01163400	Otter River near Baldwinsville, Mass.	Old bridge site	1965-66	60.9	7.0	--
16	01163900	Beaver Brook at South Royalston, Mass.	0.9 mile upstream from mouth	1965-66	8.88	.6	--
18	01164300	Lawrence Brook at Royalston, Mass.	Northeast Fitzwilliam Road	1965-66	16.4	2.5	--
20	01165090	West Branch Tully River at North Orange, Mass.	Tully Road	1966	14.1	--	--
21	01165095	Diversion to Packard Pond near Athol, Mass.	Packard Pond	1918-19, 1922-27	--	--	--
22	01165100	West Branch Tully River near Athol, Mass.	0.6 mile upstream from East Branch Tully River	1965-66	17.8	--	--

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			MILLERS RIVER BASIN (Continued)				
23	01165200	West Brook near Orange, Mass.	Wheeler Avenue	1965-66	5.99	<0.1	—
24	01165300	[1]Lake Rohunta outlet near Athol, Mass.	300 feet downstream from State Route 2	1965-66	20.3	—	—
25	01165400	Shingle Swamp Brook near Orange, Mass.	0.75 mile upstream from mouth	1965-66	1.61	.6	—
27	01166000	Millers River at Wendell, Mass.	Railroad bridge 500 feet downstream from State Route 2	1912	349	—	—
28	01166100	Whetstone Brook at Wendell Depot, Mass.	0.5 mile upstream from mouth	1965-66, 1979-81	4.88	.8	0.2
			CONNECTICUT RIVER LOWLANDS BASIN				
31	01167100	Couch Brook near North Bernardston, Mass.	U.S. Route 5	1971-73	2.63	.1	<.1
32	01167200	Fall River at Bernardston, Mass.	Burke Falls Road	1971-73	25.6	1.3	.6
33	01167250	Fall River 0.25 mile southeast of Bernardston, Mass.	Railroad 0.2 mile downstream from State Route 10	1938, 1965	27.1	—	—
34	01167300	Fall River near Greenfield, Mass.	State Route 2	1973	—	—	—
			DEERFIELD RIVER BASIN				
35	01168130	Dunbar Brook near Monroe Bridge, Mass.	20 feet upstream from River Road	1967-69	7.03	1.2	.7
36	01168150	Fife Brook near Hoosac Tunnel, Mass.	River Road	1967-69	2.12	.7	.5
38	01168170	Potter Brook near Rowe, Mass.	Leshures Road	1967-69	1.60	<.1	<.1

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			DEERFIELD RIVER BASIN (Continued)				
39	01168200	Pelham Brook at Rowe, Mass.	300 feet downstream from Shippee Brook	1967-69	7.20	0.5	0.3
40	01168230	Pelham Brook at Zoar, Mass.	900 feet upstream from mouth	1967-69	13.5	1.6	1.1
41	01168250	Cold River at Florida, Mass.	South Country Road	1967-69	6.47	.1	<.1
42	01168280	Black Brook at Drury, Mass.	100 feet upstream from mouth	1967-69	3.81	.2	<.1
43	01168300	Cold River near Zoar, Mass.	0.9 mile upstream from mouth	1938, 1965 1967-69, 1978-81	29.6	2.5	1.5
44	01168340	Chickley River at West Hawley, Mass.	State Route 8A	1967-69	8.68	1.1	.6
45	01168350	King Brook at West Hawley, Mass.	200 feet upstream from mouth	1967-69	5.24	.3	.1
46	01168370	Mill Brook near West Hawley, Mass.	Middle Road	1967-69	6.30	1.0	.6
47	01168380	Chickley River near West Hawley, Mass.	1.8 miles upstream from mouth	1938, 1965	25.5	—	—
48	01168400	Chickley River near Charlemont, Mass.	Chickley Road	1967-69	27.1	3.3	1.9
49	01168430	Legate Hill Brook near Charlemont, Mass.	Legate Hill Road	1967-69	2.62	<.1	<.1
50	01168450	Bozrah Brook at Charlemont, Mass.	West Hawley Road	1967-69	3.90	.3	.2
51	01168470	Mill Brook near Charlemont, Mass.	State Route 8A	1967-69	7.80	1.4	1.1
52	01168480	Maxwell Brook near Charlemont, Mass.	State Route 8A	1967-69	2.94	.4	.3
53	01168490	Mill Brook at Charlemont, Mass.	100 feet downstream from dam	1938, 1965	11.9	—	—
55	01168520	Avery Brook near Charlemont, Mass.	Heath Road	1967-69	3.85	1.1	.8

Table 5.--Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		DEERFIELD RIVER BASIN (Continued)					
56	01168550	Clesson Brook near Buckland, Mass.	Hawley Road	1967 69	7.50	1.8	1.4
57	01168600	Upper Branch Clesson Brook near Buckland, Mass.	State Route 112	1967-69	5.77	1.3	1.0
58	01168650	Clesson Brook near Shelburne Falls, Mass.	State Route 112	1967-69	18.2	4.0	2.7
59	01168700	Clark Brook near Shelburne Falls, Mass.	State Route 112	1967-69	2.82	.1	<.1
60	01168790	East Branch North River at Foundry Village, Mass.	100 feet downstream from Foundry Village	1936, 1938, 1965	51.2	—	—
61	01168800	Foundry Brook at Lyonsville, Mass.	Adamsville Road	1967-69	2.15	.4	.3
62	01168850	West Branch Brook at North Heath, Mass.	State Route 8A	1967-69	6.90	.8	.6
63	01168900	Sanders Brook near North Heath, Mass.	Colrain Road	1967-69	3.99	.8	.6
64	01168920	West Branch North River at Adamsville, Mass.	Hillman Bridge	1935, 1965	20.3	—	—
65	01168940	Taylor Brook near Lyonsville, Mass.	Heath Road	1967-69	5.18	.9	.6
66	01168950	West Branch North River at Lyonsville, Mass.	Private road	1967-69	29.8	4.8	3.3
68	01169600	Bear River near Conway, Mass.	Shelburne Falls Road	1967-69	10.5	1.0	.6
69	01169650	Dragon Brook at Shelburne, Mass.	Bardwell Ferry Road	1967-69	3.57	.3	.1
70	01169700	Creamery Brook at South Ashfield, Mass.	Williamsburg Road	1967-69	3.67	.4	.2
71	01169800	Poland Brook near Conway, Mass.	Poland Road	1967-69	4.02	.3	.1
74	01170070	Green River near Leyden, Mass.	400 feet upstream from Borden Brook	1967-69	35.1	4.0	2.2

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			DEERFIELD RIVER BASIN (Continued)				
76	01170120	Stafford Brook near Colrain, Mass.	200 feet upstream from mouth	1967-69	2.38	0.3	0.2
77	01170140	Green River above Workman Brook near Greenfield, Mass.	100 feet upstream from Workman Brook	1967-69	50.9	6.0	3.4
78	01170150	Green River near Greenfield, Mass.	150 feet downstream from Greenfield water-supply dam	1938, 1965	52.3	—	--
79	01170160	Glen Brook near Leyden, Mass.	Private road	1967-69	2.31	<.1	.0
80	01170180	Punch Brook near Greenfield, Mass.	Plain Road	1967-69	6.34	.6	.3
81	01170200	Allen Brook near Shelburne Falls, Mass.	Peckville Road	1965	.72	—	—
82	01170240	Mill Brook near Bernardston, Mass.	Eden Trail	1969	2.80	—	—
83	01170250	Mill Brook at Log Plain Road near Greenfield, Mass.	Log Plain Road	1967-69	4.39	<.1	<.1
84	01170280	Mill Brook near Greenfield, Mass.	0.3 mile upstream from mouth	1938, 1965	10.8	—	—
			CONNECTICUT RIVER LOWLANDS BASIN				
86	01170550	Red Brook near North Leverett, Mass.	Lake View Road	1971-73	2.00	.1	<.1
87	01170580	Sawmill River at Montague, Mass.	Just downstream from Pond Brook	1938, 1965	—	—	—
88	01170590	Cranberry Pond Brook near Sunderland, Mass.	200 feet downstream from Cranberry Pond outlet	1939	2.47	—	—
89	01170600	Long Plain Brook near Leverett, Mass.	Railroad bridge 200 feet west of State Route 63	1971-73	2.26	.1	<.1

Table 5.--Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CONNECTICUT RIVER LOWLANDS BASIN (Continued)					
90	01170700	Roaring Brook at East Leverett, Mass.	Cushman Road	1971-73	7.28	1.1	0.7
91	01170710	Cushman Brook at North Amherst, Mass.	State Street	1938, 1965	15.4	—	—
92	01170900	Mill River near South Deerfield, Mass.	North Street	1965	6.42	--	--
93	01170905	Roaring Brook near Conway, Mass.	Roaring Brook Road	1971-73	3.09	.5	.3
94	01170945	Mill River near Hatfield, Mass.	Chestnut Street	1965	38.1	—	—
95	01171193	Hop Brook near Dwight, Mass.	0.1 mile upstream from State Route 9	1972-73	.78	<.1	.0
96	01171198	Scarboro Brook at Gulf Road at Dwight, Mass.	Gulf Road	1971-73	2.17	.2	<.1
97	01171200	Scarboro Brook at Dwight, Mass.	State Route 9	1965, 1971	2.90	—	—
98	01171270	Hop Brook tributary at Dwight, Mass.	Warren Wright Street	1971-72	1.85	<.1	.0
99	01171290	Hop Brook at South Amherst, Mass.	Station Road	1971-73	14.7	2.3	1.1
101	01171310	Fort River at Sanctuary Dam, near Amherst, Mass.	State Route 16	1936, 1938, 1965	42.4	—	—
102	01171320	Fort River at Hadley, Mass.	State Route 47	1973	—	—	—
103	01171400	East Branch Mill River at Williamsburg, Mass.	Bullard Street	1971-72	9.37	1.1	.7
104	01171420	Mill River at Haydenville, Mass.	0.3 mile downstream from Unquomonk Brook	1936, 1938, 1965	29.0	—	—
105	01171450	Roberts Meadow Brook near Westhampton, Mass.	North Road	1971-72	4.77	.8	.5

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CONNECTICUT RIVER LOWLANDS BASIN (Continued)					
107	01171750	North Branch Manhan River tributary near Southampton, Mass.	Lead Mine Road	1971-72	0.77	<0.1	0.0
108	01171780	Manhan River at Easthampton, Mass.	Loudville Road	1971-73	58.2	12.7	8.5
110	01171907	Broad Brook at Rock Valley Street near Holyoke, Mass.	Rock Valley Street	1957-58 1971-73	1.49	.1	<.1
112	01171940	Manhan River near Easthampton, Mass.	Destroyed bridge on River Street	1973	—	—	—
113	01171950	Bachelor Brook at South Hadley, Mass.	State Route 47	1955, 1965, 1971-73	31.0	4.7	2.7
114	01171960	Muddy Brook near Granby, Mass.	Truby Street	1971-73	1.84	<.1	.0
115	01171970	Stony Brook at Morgan Street at South Hadley, Mass.	50 feet upstream from Morgan Street	1965	18.8	—	—
116	01171990	Stony Brook below Route 116 at South Hadley, Mass.	650 feet downstream from State Route 116	1973	—	—	—
118	01172005	Buttery Brook at South Hadley Falls, Mass.	Main Street	1972-73	3.09	—	—
		CHICOPEE RIVER BASIN					
119	01172100	West Wachusett Brook near Princeton, Mass.	700 feet upstream from Bickford Pond	1960-62, 1965-66	—	—	—
121	01172600	Canesto Brook near Williamsville, Mass.	Williamsville Road	1960-62, 1965-66, 1980-81	4.59	.4	.1
122	01172700	Natty Pond Brook at Hubbardston, Mass.	Williamsville Road	1960-62, 1965-66 1981	2.41	.6	.2

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			CHICOPEE RIVER BASIN (Continued)				
123	01172800	Natty Pond Brook near Hubbardston, Mass.	Hale Road	1960-62, 1965, 1980-81	5.49	0.6	0.2
124	01172900	Potash Brook near Barre, Mass.	Coldbrook Road	1960-62, 1965-66	.51	—	—
125	01172950	Ware River tributary at Coldbrook Springs, Mass.	State Route 122	1980-81	4.89	2.2	1.3
127	01173010	Ware River at Barre Station, Mass.	300 feet downstream from Powder Mill Pond	1910-11	98.1	—	—
128	01173040	Pleasant Brook near Barre, Mass.	State Route 62	1965-66	1.22	—	—
129	01173050	Pleasant Brook at Barre, Mass.	0.35 mile upstream from mouth	1960-62, 1965, 1978-81	2.54	.1	<.1
130	01173100	Galloway Brook near Barre, Mass.	South Street	1960-62 1965-66	1.62	—	—
131	01173150	Smith Brook near South Barre, Mass.	Loring Road	1960-62, 1965-66, 1980-81	.75	.0	.0
132	01173200	Bell Brook at Barre Plains, Mass.	Woods Road	1960-62, 1965-66 1980-81	3.50	.4	.1
133	01173230	Pine Hill Brook at Barre Plains, Mass.	Glazer Road	1960-62, 1965-66 1980-81	2.25	<.1	.0
134	01173260	[1]Moose Brook near Barre, Mass.	Hardwick Road	1960-62	4.63	—	—
135	01173300	Winimusset Brook at Wheelwright, Mass.	Hardwick Road	1960-62, 1965-66, 1980-81	6.10	.4	.1
136	01173330	Fish Brook near Gilbertville, Mass.	Goddard Road	1965	1.20	—	—

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CHICOPEE RIVER BASIN (Continued)					
137	01173350	Danforth Brook near Gilbertville, Mass.	State Route 32A	1960-62, 1965-66, 1980-81	4.01	0.2	0.1
138	01173400	Muddy Brook near Hardwick, Mass.	Greenwich Road	1960-62, 1965-66, 1980-81	4.04	<.1	<.1
139	01173450	Flat Brook near Ware, Mass.	State Route 32	1960-62, 1965-66, 1980-81	6.60	.4	.1
141	01173900	Middle Branch Swift River at North New Salem, Mass.	Elm Street	1980-81	4.77	.1	<.1
143	01174200	East Branch Swift River near Petersham, Mass.	State Route 101	1980-81	5.60	.4	.2
145	01174560	West Branch Swift River at Cooley-ville, Mass.	Cooleyville Road	1980-81	6.88	<.1	.0
146	01174563	West Branch Swift River tributary at Cooleyville, Mass.	Cooleyville Road	1981	3.86	.1	<.1
150	01175550	Swift River at Bondsville, Mass.	1.4 miles down-stream from Quabbin Reservoir	1927	189	—	—
151	01175570	Jabish Brook at Knights Corner, Mass.	Gold Street	1980-81	1.51	.2	<.1
152	01175580	Jabish Brook at Belchertown, Mass.	State Route 9	1980-81	6.10	.4	.1
153	01175600	Caruth Brook near Paxton, Mass.	Spring Street	1960-62 1965-66 1980-81	2.27	<.1	.0
154	01175640	Shaw Brook near Spencer, Mass.	Moose Hill Road	1960-62, 1965-66	4.76	—	—
156	01175690	Sevenmile River at East Brookfield, Mass.	Cove Street	1973	40.4	—	—

Table 5.--Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			CHICOPEE RIVER BASIN (Continued)				
157	01175700	Maynard Brook near Oakham, Mass.	North Brookfield Road	1960-62, 1965-66, 1980-81	1.82	<0.1	0.0
158	01175720	East Brookfield River at East Brookfield, Mass.	700 feet downstream from State Route 9	1974	25.3	--	--
159	01175730	Great Brook near East Brookfield, Mass.	Podunk Street	1960-62, 1965-66, 1981	4.39	<.1	.0
160	01175760	Trout Brook near Brookfield, Mass.	400 feet upstream from Rice Reservoir	1960-62, 1965-66	2.62	--	--
161	01175790	Coys Brook at West Brookfield, Mass.	State Route 9	1960-62, 1965, 1980-81	7.82	<.1	<.1
162	01175820	Meadow Brook near New Braintree, Mass.	West Brookfield Road	1960-62, 1965, 1981	7.31	.2	<.1
163	01175850	Mill Brook near West Brookfield, Mass.	Shay Road	1960-62, 1965, 1980	11.4	1.7	.8
164	01175880	Lamberton Brook near West Brookfield, Mass.	Old Warren Road	1955, 1960-62	4.44	--	--
165	01175890	Naultaug Brook near Warren, Mass.	State Route 67	1981	3.55	.2	<.1
166	01175910	Cheney Brook at Warren, Mass.	State Route 67	1960-62, 1965, 1980-81	1.30	<.1	.0
167	01175940	O'Neil Brook at West Warren, Mass.	State Route 67	1960-62, 1965, 1980-81	2.08	<.1	.0
168	01175970	School Street Brook at West Warren, Mass.	School Street	1960-62, 1965, 1980-81	1.21	<.1	.0

Table 5.--Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CHICOPEE RIVER BASIN (Continued)					
170	01176100	Blodgett Mill Brook at West Brimfield, Mass.	West Brimfield Road	1960-62, 1965-66 1980-81	7.71	0.3	0.1
171	01176200	Kings Brook at West Brimfield, Mass.	State Route 67	1960-62, 1965-66, 1980-81	3.97	1.1	.6
172	01176300	Foskett Mill Stream near Fentonville, Mass.	Old Palmer Road	1955, 1960-62, 1965-66	6.56	—	--
173	01176395	Calkins Pond outlet near South Monson, Mass.	Bumstead Road	1980-81	.62	—	--
174	01176400	Chicopee Brook at South Monson, Mass.	Maple Street	1955, 1960-62, 1965-66, 1980-81	4.73	1.6	.8
175	01176420	Chicopee Brook at North Monson, Mass.	State Route 32 just upstream from railroad bridge	1947	22.5	—	--
176	01176450	Roaring Brook near Belchertown, Mass.	State Route 21	1965, 1980-81	2.74	<.1	.0
178	01177032	Harris Brook at Ludlow Center, Mass.	Rood Road	1957-58, 1980-81	2.78	.3	.1
		CONNECTICUT RIVER LOWLANDS BASIN					
181	01177300	North Branch Mill River near Wilbraham, Mass.	Wilbraham Road	1957-58, 1971-73	7.30	1.3	.8
182	01178000	[1]Mill River at Springfield, Mass.	75 feet upstream from Hancock Street bridge	1955, 1972-73	33.2	—	—

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			WESTFIELD RIVER BASIN				
183	01178100	Center Brook at Savoy, Mass.	Mouth	1962-65	2.94	0.2	0.1
184	01178150	Drowned Land Brook at Savoy, Mass.	Mouth	1962-63, 1965	4.43	.1	<.1
185	01178200	Westfield Brook at East Windsor, Mass.	High Street	1962-65	11.0	.9	.5
187	01178250	Stones Brook at Lithia, Mass.	Loomis Road	1962-65	7.45	.5	.3
188	01178300	Swift River at Swift River, Mass.	State Route 9	1962-65	22.9	1.8	.9
189	01178400	Kearney Brook near Cummington, Mass.	State Route 112	1962-65	1.91	.2	<.1
194	01180400	Kinne Brook near Littleville, Mass.	0.1 mile upstream from mouth	1962-63, 1965	5.71	.3	.2
195	01180500	[1]Middle Branch Westfield River at Goss Heights, Mass.	0.3 mile upstream from mouth	1908-09	52.7	—	—
196	01180501	Middle Branch Westfield River above mouth near Huntington, Mass.	0.25 mile upstream from mouth	1908	52.8	—	—
197	01180502	Middle Branch Westfield River at mouth near Huntington, Mass.	Mouth	1909	52.8	—	—
198	01180600	Depot Brook at Washington, Mass.	State Route 8	1962-65	3.06	.3	.2
199	01180700	Factory Brook near Middlefield, Mass.	Town Road	1962-65	8.54	.3	.1
200	01180750	West Branch Westfield River at Chester, Mass.	Highway bridge	1910-11, 1915	54.2	—	—
201	01180800	[1]Walker Brook near Becket Center, Mass.	State Route 20	1962, 1978-81	2.94	—	—
202	01180820	Walker Brook at Chester, Mass.	0.25 mile upstream from mouth	1955	18.1	—	--

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		WESTFIELD RIVER BASIN (Continued)					
203	01180900	Roaring Brook at Fisk Avenue near Huntington, Mass.	Fisk Avenue	1962-64	3.63	0.1	0.0
204	01181000	[1]West Branch Westfield River at Huntington, Mass.	1.5 miles upstream from mouth	1908, 1910	94.0	—	—
205	01181100	Roaring Brook near Huntington, Mass.	Carrington Road	1962-64	5.58	.4	.2
206	01181400	Stage Brook near Russell, Mass.	1.4 miles upstream from mouth	1955, 1962-65	5.21	.8	.5
207	01183100	Dickinson Brook tributary at Granville, Mass.	State Route 189	1965	.70	—	--
208	01183200	Shurtleff Brook near Westfield, Mass.	Loomis Street	1962-66	3.62	.6	.4
209	01183270	Little River below Crane Pond, at Westfield, Mass.	U.S. Route 202	1914	82.6	—	—
210	01183300	Arm Brook near Westfield, Mass.	1.1 miles upstream from mouth	1962-66	2.50	.1	<.1
211	01183302	Arm Brook at Lockhouse Road near Westfield, Mass.	Lockhouse Road 0.25 mile upstream from mouth	1957-58	4.43	—	--
212	01183345	Great Brook at Congamond, Mass.	Sheep Pasture Road	1967-68	4.47	—	--
213	01183350	Pearl Brook at Congamond, Mass.	U.S. Route 202	1967-68	1.47	—	—
214	01183355	Johnson Brook near Southwick, Mass.	Curtis Road	1967	1.81	—	—
215	01183360	Tuttle Brook at Southwick, Mass.	Jackson Road	1967	1.39	—	—
216	01183365	Johnson Brook near Congamond, Mass.	U.S. Route 202	1967-68	3.67	—	—

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
			WESTFIELD RIVER BASIN (Continued)				
217	01183370	Great Brook tributary No. 2 at Southwick, Mass.	State Route 57	1968	0.57	—	—
218	01183375	Great Brook at Sheep Pasture Road at Southwick, Mass.	Sheep Pasture Road	1968	12.1	—	—
219	01183385	Great Brook tributary No. 3 at Southwick, Mass.	Powder Mill Road	1968	.19	—	—
220	01183390	Great Brook tributary No. 4 near Southwick, Mass.	State Route 57	1968	.60	—	—
221	01183395	Great Brook tributary near Southwick, Mass.	500 feet upstream from mouth	1967-68	1.60	—	—
222	01183400	Great Brook near Southwick, Mass.	State Route 57	1962-68, 1978-81	16.4	6.2	4.9
223	01183415	Slab Brook near Southwick, Mass.	Pond Hollow Road	1967-68	1.03	—	—
224	01183425	Great Brook 0.7 mile above Shaker Road near Westfield, Mass.	0.7 mile upstream from Shaker Road	1968	17.9	—	—
225	01183430	Great Brook tributary No. 5 near Southwick, Mass.	Lard Road	1968	—	—	—
226	01183435	Great Brook 0.2 mile above Shaker Road near Westfield, Mass.	1000 feet upstream from Shaker Road	1968	18.7	—	—
227	01183440	Great Brook at Shaker Road, near Westfield, Mass.	Shaker Road	1968	18.7	—	—
228	01183449	Kellog Brook near Westfield, Mass.	Shaker Road	1967-68	2.92	—	—
230	01183460	Great Brook at Route 187 near Westfield, Mass.	State Route 187	1914, 1967-68	23.9	—	—

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-7	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CONNECTICUT RIVER LOWLANDS BASIN					
233	01183700	Pecousic Brook near Springfield, Mass.	Dwight Road	1971-73	3.01	—	--
237	01184200	Still Brook near West Agawam, Mass.	State Route 187	1957-58, 1962-66, 1971-73	5.26	1.1	0.4
238	01184208	Philo Brook near Suffield, Conn.	Halliday Avenue	1963-65, 1966-73,	4.26	—	[2].1
239	01184280	[3]Scantic River near North Somers, Conn.	State Route 83	1963-66	27.1	—	[2]4.0
		FARMINGTON RIVER BASIN					
242	01185480	Silver Brook at West New Boston, Mass.	Back Road	1955, 1965	6.69	—	--
243	01185490	Clam River at West New Boston, Mass.	0.2 mile downstream from Buck River	1955, 1965	29.1	—	--

[1] Recording gage, refer to table 2.
[2] Calculated from equation developed by Cervione and others, 1982.
[3] Recording gage 1967-69.

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