

Flow Durations, Low-Flow Frequencies, and Monthly Median Flows for Selected Streams in Connecticut through 2005

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Conversion Factors and Datum

[Inch/Pound to SI]

Multiply	By	To obtain
Length		
foot (ft)	0.3048	meter (m)
Area		
square mile (mi ²)	2.590	square kilometer (km ²)
Flow rate		
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]

Horizontal coordinate information is referenced to the North American Datum of 1927 (NAD 27).

Flow Durations, Low-Flow Frequencies, and Monthly Median Flows for Selected Streams in Connecticut through 2005

By Elizabeth A. Ahearn

Abstract

Flow durations, low-flow frequencies, and monthly median streamflows were computed for 91 continuous-record, streamflow-gaging stations in Connecticut with 10 or more years of record. Flow durations include the 99-, 98-, 97-, 95-, 90-, 85-, 80-, 75-, 70-, 60-, 50-, 40-, 30-, 25-, 20-, 10-, 5-, and 1-percent exceedances. Low-flow frequencies include the 7-day, 10-year ($7Q_{10}$) low flow; 7-day, 2-year ($7Q_2$) low flow; and 30-day, 2-year ($30Q_2$) low flow. Streamflow estimates were computed for each station using data for the period of record through water year 2005.

Estimates of low-flow statistics for 7 short-term (operated between 3 and 10 years) streamflow-gaging stations and 31 partial-record sites were computed. Low-flow estimates were made on the basis of the relation between base flows at a short-term station or partial-record site and concurrent daily mean streamflows at a nearby index station. The relation is defined by the Maintenance of Variance Extension, type 3 (MOVE.3) method. Several short-term stations and partial-record sites had poorly defined relations with nearby index stations; therefore, no low-flow statistics were derived for these sites. The estimated low-flow statistics for the short-term stations and partial-record sites include the 99-, 98-, 97-, 95-, 90-, and 85-percent flow durations; the 7-day, 10-year ($7Q_{10}$) low flow; 7-day, 2-year ($7Q_2$) low flow; and 30-day, 2-year ($30Q_2$) low-flow frequencies; and the August median flow. Descriptive information on location and record length, measured basin characteristics, index stations correlated to the short-term station and partial-record sites, and estimated flow statistics are provided in this report for each station. Streamflow estimates from this study are stored on USGS's World Wide Web application "StreamStats" (<http://water.usgs.gov/osw/streamstats/connecticut.html>).

Introduction

Management of water resources is undergoing significant changes and broad restructuring as biologists, ecologists, and hydrologists further the scientific understanding of natural river flows and flow conditions necessary to sustain aquatic

life. As water withdrawals increase, more rivers have become environmentally stressed. Over recent years, the state government of Connecticut has worked towards integrating water allocation and uses with protecting the ecological integrity of the riverine ecosystems. Policymakers and planners are considering the needs of freshwater environments and have been establishing in-stream flow requirements to safeguard the rivers. In-stream flows are streamflows of a particular magnitude, frequency, and timing that are necessary to ensure that a river system remains environmentally healthy. To achieve the highest possible level of stream health for the designated class of stream use, the first challenge is to analyze water availability for the environment and for direct withdrawal and use. Streamflow statistics are an important tool used to assess water availability. Determination of timely, relevant streamflow statistics—flow durations, low-flow frequencies, and monthly median streamflows—will provide information useful to state government and local officials in making water-resource, regulatory, and other management decisions.

Flow durations and monthly median streamflows for Connecticut streams were last computed by the U.S. Geological Survey (USGS) more than 20 years ago (Randall and others, 1966; Thomas, M.P., and others, 1967; Thomas, C.E., and others, 1968; Ryder and others, 1970, 1981; Cervione and others, 1972; Wilson and others, 1974; Mazzaferro and others, 1979; Weiss and others, 1982; and Handman and others, 1986). Low-flow frequencies for Connecticut streams were last computed in the early 1980s (Cervione, 1982; Weiss, 1983). Since these studies, an additional 20 years of streamflow data have been collected and new methods have been developed for estimating low-flow statistics at short-term stations and partial-record sites. To update the streamflow statistics, the USGS in cooperation with the Connecticut Department of Environmental Protection (DEP) and the New England Interstate Water Pollution Control Commission (NEIWPCC) conducted this study to compute flow durations, low-flow frequencies, and monthly median streamflows for Connecticut streams using data through water year¹ 2005.

¹ A water year is defined as the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2005 is termed the 2005 water year.

Locations of streamgaging stations and partial-record sites used in this study are shown on figure 1.

This report provides streamflow estimates for 91 continuous-record streamflow-gaging stations with 10 or more years of record (hereinafter referred to as “streamgaging stations”), including (1) 99-, 98-, 97-, 95-, 90-, 85-, 80-, 75-, 70-, 60-, 50-, 40-, 30-, 25-, 20-, 10-, 5-, and 1-percent flow durations; (2) 7-day, 10- and 2-year low flow and 30-day, 2-year low-flow frequencies; and (3) monthly median streamflows. In addition, this report provides low-flow estimates for 7 short-term stations with less than 10 years of record and 31 partial-record sites, including (1) 99-, 98-, 97-, 95-, 90-, and 85-percent flow durations; (2) 7-day, 10- and 2-year low flow and 30-day, 2-year low-flow frequencies; and (3) August median streamflows (fig. 1). Methods used to estimate the flow statistics at streamgaging stations and partial-record sites are described. The analyses are based on published streamflow data collected through water year 2005. Estimates of flow durations, low-flow frequencies, and monthly median streamflows are stored on USGS’s World Wide Web application “StreamStats” (<http://water.usgs.gov/osw/streamstats/connecticut.html>) (Ahearn, in press).

Streamflow Statistics at Stations with Continuous Record of 10 Years or More

Streamflow data for 91 streamgaging stations with 10 or more years of daily mean record (fig. 1; table 1 in back of report) were retrieved from the USGS’s National Water Inventory System (NWIS) (<http://waterdata.usgs.gov/ct/nwis/nwis>, accessed on September 12, 2006). At 70 percent of the stations (64 of 91), streamflow is considered artificially increased or decreased by water withdrawals, out-of-basin transfers, point-source discharges, regulation, and (or) reservoir operations; at 30 percent of the stations (27 of 91), streamflow is considered natural with negligible anthropogenic effects to the hydrologic flow regime. Throughout this report, stations with natural flow conditions are referred to as “index stations or index basins.” Index stations can be used to evaluate water resources and characterize regional trends in streamflow. In addition, index stations often are used to characterize streamflow on rivers where there is little or no data. Currently (2007), USGS operates eight index stations in Connecticut; the other 19 have been discontinued.

Flow Durations

Flow durations represent the percentage of time that a given flow is equaled or exceeded without regard to the sequence of recorded flows. Typically, flow durations characterize the range of flow rates for the period over which data were collected. Flow durations can be computed using commercially available statistical software. S-Plus (Insightful,

2006) was used for this study to compute the 99-, 98-, 97-, 95-, 90-, 85-, 80-, 75-, 70-, 60-, 50-, 40-, 30-, 25-, 20-, 10-, 5-, and 1-percent exceedances. Flow durations were computed for the 91 stations for the period of record through water year 2005 (table 2 in back of report).

Flow durations are computed by sorting the daily mean streamflows for the period of record from the largest value to the smallest value and assigning each streamflow value a rank, starting with 1 for the largest value. The frequencies of exceedance are then computed using the Weibull formula for computing plotting position (Helsel and Hirsch, 1992):

$$P = 100 * [M / (n + 1)], \quad (1)$$

where

P = the probability that a given flow will be equaled or exceeded (percent of time),

M = the ranked position (dimensionless),

and

n = the number of events for period of record (dimensionless).

To compare flow durations in different basins, streamflows are “normalized” to a streamflow per unit area. Therefore, the flow duration at each of the 91 streamgaging stations was divided by its respective drainage area. Normalized streamflows ranged from 0.01 to 0.42 cubic feet per second per square mile ($\text{ft}^3/\text{s}/\text{mi}^2$) at the 99-percent flow duration with three statistical outliers (Guinea Brook and Safford Brook, $0.0 \text{ ft}^3/\text{s}/\text{mi}^2$; Clear Brook, $0.90 \text{ ft}^3/\text{s}/\text{mi}^2$). Normalized streamflows ranged from 0.02 to $0.54 \text{ ft}^3/\text{s}/\text{mi}^2$ at the 95-percent flow duration with one statistical outlier (Clear Brook, $1.19 \text{ ft}^3/\text{s}/\text{mi}^2$). The drainage basins of Guinea Brook and Safford Brook are predominately covered by glacial till (greater than 98 percent) and have little or no ground-water discharge during dry weather. Clear Brook’s substantially greater normalized low flows compared to the other stations are high because the ground-water drainage area is larger than the surface-water drainage area. In addition, the drainage area of Clear Brook has a large percentage of glacial stratified deposits (44.6 percent) (table 7), and the ground-water discharge can have a pronounced effect on streamflow. Another basin, South Branch Salmon Brook, exhibits similar low-flow characteristics as Clear Brook. South Branch Salmon Brook (01192600) also has greater normalized low flows because the ground-water drainage area is larger than the surface-water drainage area. In addition, the drainage area of South Branch Salmon Brook has a large percentage of glacial stratified deposits (about 65 percent) (table 7). Both Clear Brook and South Branch Salmon Brook have small surface-water drainage areas (less than 1 mi^2) and are geographically close to each other. Median normalized streamflows (50-percent flow duration) ranged from 0.5 to $1.6 \text{ ft}^3/\text{s}/\text{mi}^2$ for 90 stations with one outlier (Clear Brook, $2.5 \text{ ft}^3/\text{s}/\text{mi}^2$). Normalized streamflows ranged from 3.7 to $7.3 \text{ ft}^3/\text{s}/\text{mi}^2$ and 6.2 to $18.4 \text{ ft}^3/\text{s}/\text{mi}^2$ at the 5- and 1-percent flow durations, respectively.

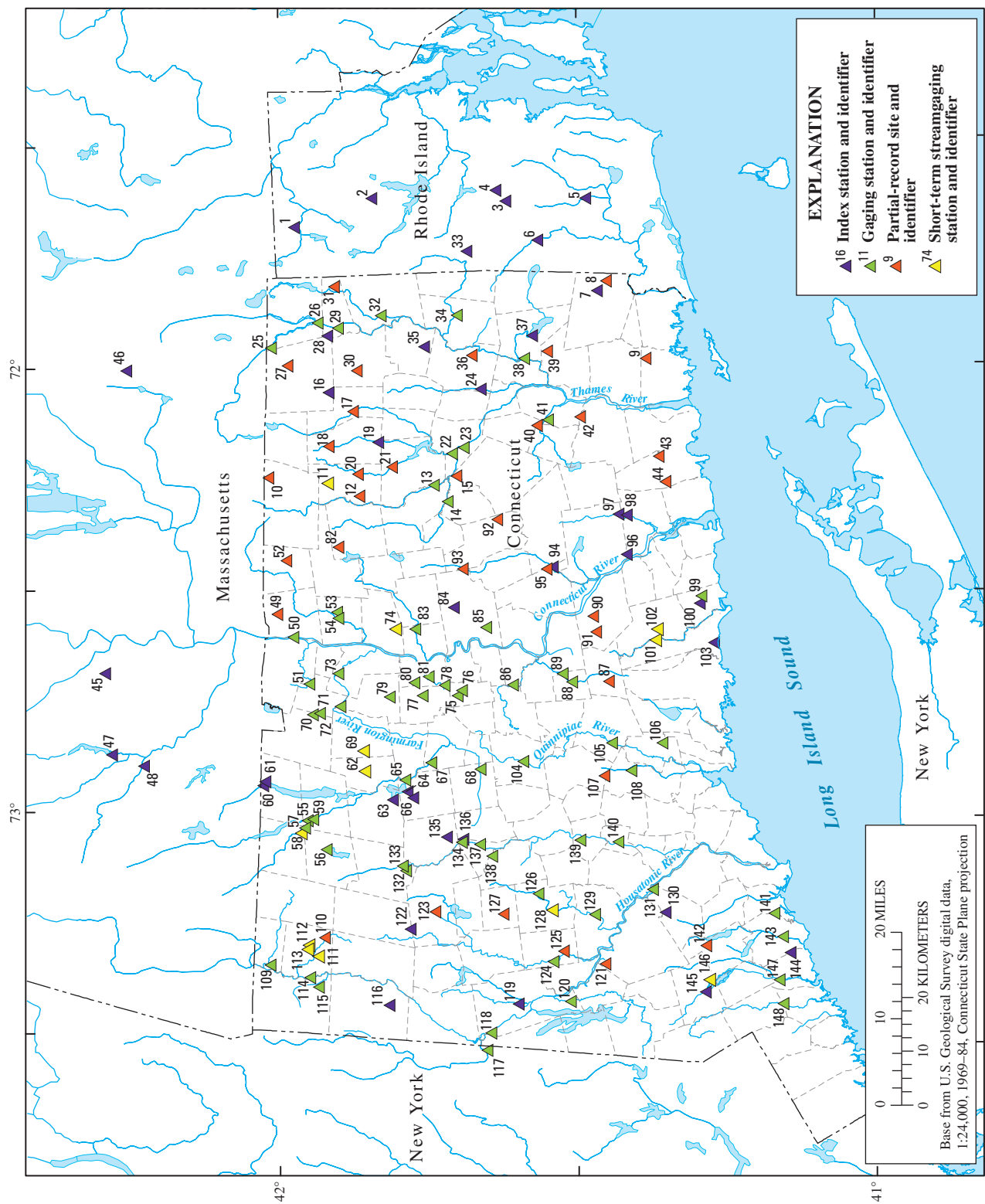


Figure 1. Locations of all streamgaging stations and partial-record sites used to estimate flow durations, low-flow frequencies, and monthly median flows for selected streams in Connecticut through 2005. Reference numbers shown above are used to describe the stations in tables 1–9.

Overall, the index basins tend to have slightly smaller normalized low flows than the basins where the hydrologic flow regime has been altered, with a few exceptions: basins where the ground-water drainage area is larger than the surface-water drainage area, and (or) those with a large percentage of glacial stratified deposits. Normalized flows at the 99-percent flow duration for 25 of the 27 index basins were less than $0.16 \text{ ft}^3/\text{s}/\text{mi}^2$, with a median of $0.03 \text{ ft}^3/\text{s}/\text{mi}^2$. The sizes of the index basins range from 2.45 to 100 mi^2 . For similar-size basins with altered flow, the normalized 99-percent flow durations ranged from 0.01 to $0.42 \text{ ft}^3/\text{s}/\text{mi}^2$, with a median of $0.10 \text{ ft}^3/\text{s}/\text{mi}^2$. Basins such as those of the Naugatuck, Quinnipiac, Still, and Housatonic Rivers have numerous point discharges and their streams exhibit some of the highest normalized flows at the 99-percent flow duration in the state (0.17 to $0.31 \text{ ft}^3/\text{s}/\text{mi}^2$). When comparing low flows from index stations and stations on waste-receiving streams, it is expected that waste-receiving streams will exhibit higher low flows than might occur naturally because point-source discharges increase the natural flows of a river. Reduced river flows are attributed to water withdrawals, diversions, increased development, and (or) dams. Streamflows can be increased or decreased depending upon the way the watershed is managed and water is allocated. To have a clearer explanation of the differences in the hydrologic characteristics of basins with natural and altered flow conditions, an assessment of the different hydrologic flow regimes among rivers and extent of hydrologic alteration is needed.

Low-Flow Frequencies

Low-flow frequencies typically are computed for stations by use of annual series of selected low flows based on the lowest mean flow for some number of consecutive days. Any combination of number of days of mean minimum flow and years of recurrence may be used to determine the low-flow frequencies. The annual series for the determination of low-flow frequencies for this study was based on a climatic year, which is from April 1 of a given year to the following March 31. Use of a climatic year rather than a water year allows for an analysis of an uninterrupted low-flow period, which in Connecticut typically occurs in late September and early October.

Low-flow frequencies were computed for selected days and frequencies for 91 streamgaging stations, with 10 or more years of continuous record (table 3 in back of report). Low-flow frequencies are based on the D-day, Y-year frequency statistic of daily mean flow. This statistic is the minimum consecutive D-day mean flow expected to occur once in any Y-year or that has a probability of $1/Y$ of not being exceeded in any given year. Three commonly used indices of low-flow frequencies were determined for this report: the 7-day, 10-year low-flow frequency ($7Q_{10}$); the 7-day, 2-year low-flow frequency ($7Q_2$); and the 30-day, 2-year low-flow frequency ($30Q_2$). The $7Q_{10}$ is the annual minimum average flow for

7 consecutive days that has a 0.10 probability (1/recurrence interval) of not being exceeded in a given year. The $7Q_2$ is the annual minimum average flow for 2 consecutive days that has a 0.50 probability of not being exceeded in a given year. The $30Q_2$ is the annual minimum average flow for 30 consecutive days that has a 0.50 probability of not being exceeded in a given year. The $7Q_{10}$ is used primarily in regulating waste disposal to streams. Under the Connecticut General Statutes (CT Water Quality Standards, 22a-417, http://www.epa.gov/waterscience/standards/wqslibrary/ct/ct_1_wqs.pdf), water-quality standards incorporate low-flow frequency statistics to ensure that water-quality standards are met and that to a limited degree, aquatic habitat is protected.

The USGS computer program Surface Water Time Series Statistics (SWSTAT; Lumb and others, 1990) was used to compute the low-flow frequencies (<http://water.usgs.gov/software/swstat.html>, accessed on September 19, 2006). SWSTAT determines the annual series of minimum mean flows, ranks them, fits them to a log-Pearson type III distribution, and plots the resulting line of fit through the annual values. A conditional probability adjustment is made for days of zero flows. A determination of the data fit to the distribution, and the eventual low-flow frequency values to be used are based on the professional judgment of the hydrologist. The reliability of estimates of low-flow frequencies as an indicator of probable future conditions is closely related to the length of record used and whether the record is reasonably representative of long-term flow characteristics. When the period of record used to compute the low-flow statistics is sufficiently long (typically at least 10 years), the statistics can be an indicator of probable future conditions (Searcy, 1959).

Estimates of the $7Q_{10}$ for the 91 stations were compared to low-flow durations. For the majority (72 of 91) of streamgaging stations, $7Q_{10}$ estimates were less than the 99-percent flow duration. Seventeen stations had $7Q_{10}$ estimates between the 99- and 97-percent flow durations. The Housatonic River (USGS streamgaging station 01205500) and Tenmile River (01200000) had slightly higher $7Q_{10}$ estimates between 95- and 90-percent flow duration and 90- and 85-percent flow duration, respectively.

Monthly Median Streamflows

Monthly median streamflows were computed for 91 streamgaging stations as the median of individual daily mean streamflows for all complete months during the period of record at the station (table 4 in back of report). The August median flow is an important statistical measure for fisheries and often is used for summer maintenance of aquatic habitat in New England streams (U.S. Fish and Wildlife Service, 1981).

To compare August median flows across basins, the flows were divided by their respective drainage areas ("normalized"). At the 27 index stations, the estimated normalized August median flows ranged from 0.06 to $0.96 \text{ ft}^3/\text{s}/\text{mi}^2$, with a median of $0.19 \text{ ft}^3/\text{s}/\text{mi}^2$. Clear Brook, an index station with

a drainage area less than 1 mi², was a statistical outlier with a normalized August median flow of 2.37 ft³/s/mi². At the 64 non-index stations (basins with flow alteration), the estimated normalized August median flows ranged from 0.15 to 1.77 ft³/s/mi², with a median of 0.35 ft³/s/mi². The normalized August median flows were larger in basins with flow alteration than the normalized August median flows in basins with natural flow, indicating point-source discharges (e.g., wastewater releases from sewage-treatment facilities or industry) may be increasing August median flows. In addition, the data indicated a slightly larger range in the normalized August median flows for larger basins (greater than 45 mi²) with flow alteration—0.15 to 1.34 ft³/s/mi² for basins less than 40 mi² and 0.15 to 1.77 ft³/s/mi² for basins between 45 and 100 mi². A common time period was not used to compare flows normalized by drainage area; therefore, the differences in flows per square mile between the stations with and without flow alteration are partly attributed to the varying record lengths.

Estimation of Low-Flow Statistics at Short-Term Stations and Partial-Record Sites

Estimates of streamflow often are needed for streamflow-gaging stations with short periods of record that may not reflect long-term hydrologic conditions, or for partial-record sites with only a discrete number of base-flow measurements. Through correlation and streamflow-record augmentation methods, low-flow statistics for the short-term stations and partial-record sites can be estimated. Estimates can be made on the basis of the relation between base flow at the short-term station or base-flow measurements at the partial-record site and concurrent daily streamflows at a nearby, hydrologically similar index station. Because the relation is derived from base flows, the only estimated statistics for the short-term stations and partial-record sites are low-flow statistics. For this study, the relation is defined by use of a streamflow-record augmentation method known as the Maintenance of Variance Extension, type 3 (MOVE.3) (Vogel and Stedinger, 1985).

Streamflow data for 12 streamgaging stations with daily mean records between 3 and 10 years, referred to as short-term stations, were retrieved from the NWIS database (<http://waterdata.usgs.gov/ct/nwis/nwis>, accessed on September 12, 2006). In Connecticut, the USGS operated a network of 90 partial-record sites from 1960 to 1980. Partial-record sites do not have continuous stage-recording equipment, and only periodic streamflow measurements are made. Streamflow measurements for these sites have been published in the annual series of USGS water-data reports. Fifty-six of the 90 partial-record sites were excluded from this statistical analyses because of flow alteration (water withdrawals, diversions, reservoir operations, or point discharges) in the upstream basins or because the number of

base-flow measurements was too small for statistical analysis. The 12 short-term stations and 34 partial-record sites that were identified as having natural or near-natural flows were used in the correlation and MOVE.3 methods (fig. 2). Descriptive information for the short-term stations and partial-record sites is listed in tables 5 and 6 (in back of report), respectively.

An index station used to estimate flows at short-term stations and partial-record sites must satisfy several criteria: (1) the flow is natural, (2) a portion of its period of record coincides with that at the short-term station or partial-record site, and (3) its period of record is substantially longer than that of the short-term station or partial-record station. In addition, the concurrent flows for the short-term stations or partial-record sites and index stations should plot linearly in log-space and be highly correlated. Ideally, index stations would be geographically close to the partial-record site or short-term station, have comparable drainage-area sizes, have the surface-water drainage area as determined by topography be coincident with the ground-water drainage area, and have similar geologic and hydrologic characteristics.

Some short-term stations and partial-record sites cross state boundaries and have similar climatic and geologic characteristics to index stations in adjacent states. A total of 38 index stations in Connecticut and adjacent states—27 stations in Connecticut, 4 in Massachusetts, and 7 in Rhode Island—were used to correlate concurrent flows with the short-term stations and partial-record sites (fig. 2). Basin characteristics for index stations, short-term stations, and partial-record sites are presented in table 7 (in back of report).

Scatterplots of the log-transformed flows at each short-term station and partial-record site and same-day log-transformed daily mean flow at each of the index stations were created to evaluate the relation between the sites. Because streamflow data are highly skewed with a few very high values, a log transformation is commonly done to linearize the data. The pattern of the scatter in a linear relation indicates the strength of the relation between the flows at the two stations: a narrow scatter band indicates a high degree of association between the flow at the two stations, and a wide scatter band indicates a lesser degree of association. When the scatterplots indicate a linear relation between the log-transformed flows of the two stations, the MOVE.3 method can be used to develop an equation that relates flow at the short-term station or partial-record site to that at the long-term index station. For stations with zero flows, a constant of 0.005 ft³/s was added to derive the linear relation of the log transformation of the data and was then subtracted to compute the low-flow statistics using the MOVE.3 equation.

Correlation coefficients were calculated and used as indicators of linearity. MOVE.3 equations were developed for stations where the correlation coefficients were greater than 0.8; correlation coefficients less than 0.8 were considered less reliable. As an example, the MOVE.3 relation between a partial-record station, Haleys Brook (0118750), and an index station, Pendleton Brook (01118300), is shown in figure 3. Generally, each short-term station and partial-record site was

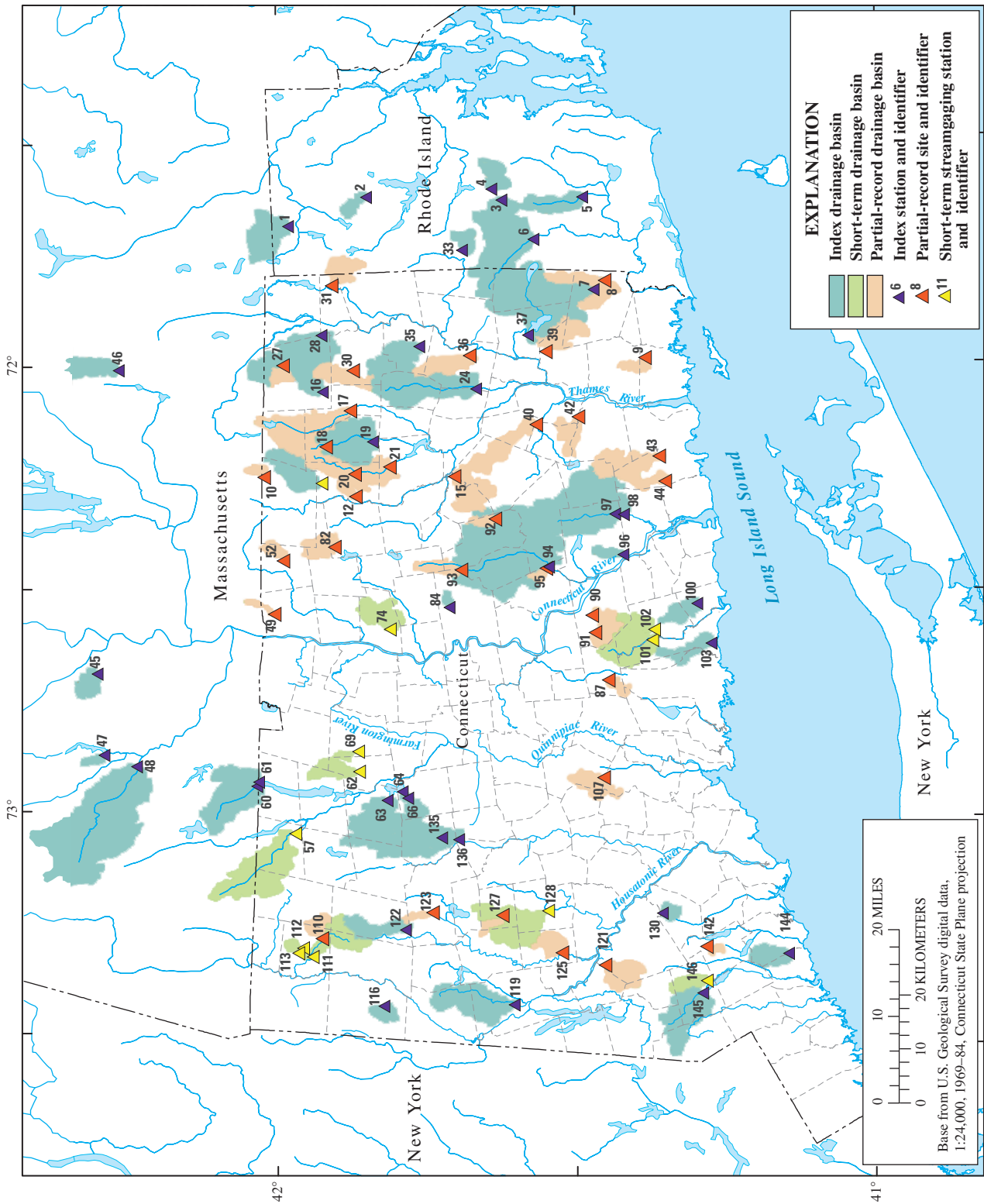


Figure 2. Locations of index stations, short-term stations, and partial-record sites used for correlation of base flows.

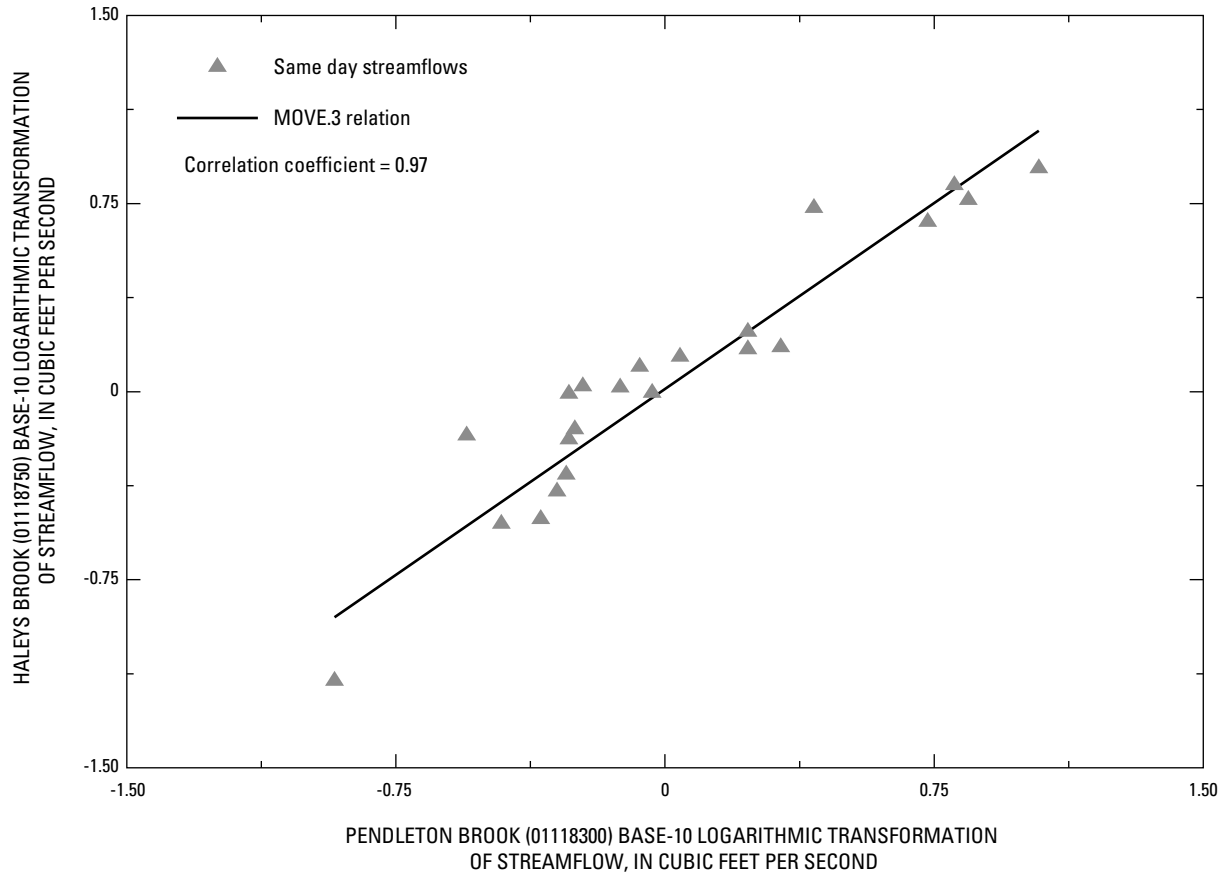


Figure 3. An example of the MOVE.3 relation between a partial-record station, Haleys Brook (0118750), and an index station, Pendleton Brook (0118300). Both stations are in Connecticut.

correlated with one or more nearby index stations (table 8 in back of report). One index station was chosen to develop the final MOVE.3 equation based on (1) correlation coefficient, (2) proximity of the index station to the short-term station or partial-record site, (3) similarity in the drainage-area size and geologic characteristics of the basins, and (4) visual observation of the linear relation and residual plots.

Low-flow statistics 99-, 98-, 97-, 95-, 90-, and 85-percent flow durations; the 7-day, 10- and 2-year low flows, and the 30-day, 2-year low flow; and the August median flow were estimated at 31 of the 34 partial-record sites and at 7 of the 12 short-term stations (table 9 in back of report). The MOVE.3 mathematical method was used to estimate the low-flow statistics. Several short-term stations and partial-record sites did not

correlate or showed poor correlations with the index stations in the region indicating that the index stations may not represent the hydrologic characteristics of the river or provide useful information that can be transferred to other sites to make estimates of streamflow. Three partial-record sites—Fenton River (01121350), Latimer Brook (01127790), and Patterson Brook (01208900)—had poorly defined relations to nearby index stations (correlation coefficients 0.8); subsequently, no low-flow statistics were derived for these sites. Five short-term stations—Hop Brook (01189180), Podunk River (01190055), Deming Brook (01198860), Ledgy Brook (01198870), Wee-keepeemee Brook (01203805)—had poorly defined relations to nearby index stations (correlation coefficients 0.8) and no low-flow statistics were derived for these stations.

Summary

Water-resources managers face considerable challenges due to growing demands on finite freshwater supplies and the need to safeguard the riverine ecosystems. The state government in Connecticut is working to integrate water allocation and use with protecting the ecological integrity of the state's rivers. Current estimates of streamflow statistics at streamgaging stations and partial-record sites will aid the state government in doing this. The U.S. Geological Survey (USGS), in cooperation with the Connecticut Department of Environmental Protection and New England Interstate Water Pollution Control Commission (NEIWPCC), computed streamflow statistics for 129 stream sites in Connecticut to provide information to state and local officials for water-resource, regulatory, and other management decisions. Flow durations, low-flow frequencies, and monthly median flows were computed for 91 streamgaging stations (operated 10 or more years), 7 short-term stations (operated less than 10 years), and 31 partial-record sites. Different methods were used for statistical analyses, depending on the type of station operated and quantity of data collected.

The estimated streamflow statistics for the 91 long-term continuous-record streamgaging stations include the 99-, 98-, 97-, 95-, 90-, 85-, 80-, 75-, 70-, 60-, 50-, 40-, 30-, 25-, 20-, 10-, 5-, and 1-percent flow durations; the 7-day, 10- and 2-year low flow frequency and the 30-day, 2-year low flow frequency; and monthly median flows. Streamflow estimates were computed for each station using data collected through water year 2005.

Long-term streamgaging-station records provide the best data for estimating the magnitude and probability of flows; however, for many proposed water-resources projects, only a short record or a limited number of discrete flow measurements may be available. Through correlation and a streamflow-record augmentation method, referred to as the Maintenance of Variance Extension (MOVE.3) method, low-flow statistics were estimated for short-term stations and partial-record sites based on the relation between base-flow measurements at the partial-record site or daily mean (base) flows at the short-term station and concurrent daily streamflows at a nearby, hydrologically similar index station.

The estimated low-flow statistics for the 7 short-term stations and 31 partial-record sites include the 99-, 98-, 97-, 95-, 90-, and 85-percent flow durations; the 7-day, 10-year low flow; 7-day, 2-year low flow; and 30-day, 2-year low-flow frequencies; and the August median flow. Low-flow statistics could not be estimated for some short-term stations and partial-record sites because base-flow relations with the index stations did not correlate or showed low correlations indicating that the index stations may not represent the hydrologic characteristics of these short-term stations or partial-record sites.

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Tables 1–9

Table 1. Descriptions of streamgaging stations with 10 or more years of continuous record in Connecticut used to compute flow durations, low-flow frequencies, and monthly median flow statistics.

[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	Latitude (decimal degrees)	Longitude (decimal degrees)	River name	Town	Years of record	Period of record	Drainage area (mi ²)
7	01118300	41.4748	-71.8342	Pendleton Brook	North Stonington	47	Oct 1958–Sep 2005	4.02
13	01119500	41.7507	-72.2656	Willimantic River	Mansfield	74	Oct 1931–Sep 2005	121
14	01120000	41.7276	-72.3023	Hop River	Columbia	39	Oct 1932–Oct 1971	74.8
16	01120500	41.9265	-72.0570	Safford Brook	Woodstock	31	Oct 1950–Oct 1981	4.15
19	01121000	41.8437	-72.1690	Mount Hope River	Ashford	65	Oct 1940–Sep 2005	28.6
22	01122000	41.7198	-72.1956	Natchaug River	Windham	69	Oct 1930–Sep 1989, Oct 1995–Sep 2005	174
23	01122500	41.7004	-72.1820	Shetucket River	Windham	77	Oct 1928–Sep 2005	404
24	01123000	41.6718	-72.0523	Little River	Canterbury	54	Oct 1951–Sep 2005	30
25	01124000	42.0223	-71.9556	Quinebaug River	Thompson	74	Oct 1931–Sep 2005	155
26	01124151	41.9434	-71.9004	Quinebaug River	Thompson	29	May 1984–Sep 2000, Oct 2000–Sep 2005	172
28	01125490	41.9276	-71.9301	Little River	Putnam	10	Aug 1961–Sep 1971	35.8
29	01125500	41.9093	-71.9129	Quinebaug River	Putnam	50	Jan 1930–Sep 1969, Oct 1995–Sep 2005	328
32	01126000	41.8373	-71.8853	Fivemile River	Killingly	34	Nov 1937–Oct 1971	57.8
34	01126500	41.7104	-71.8859	Moosup River	Plainfield	39	Oct 1932–Oct 1971	83.6
35	01126600	41.7654	-71.9565	Blackwell Brook	Brooklyn	13	Oct 1963–Oct 1976	17
37	01126950	41.5848	-71.9334	Pachaug River	Griswold	12	Aug 1961–Oct 1973	53
38	01127000	41.5979	-71.9842	Quinebaug River	Griswold	87	Oct 1918–Sep 2005	713
41	01127500	41.5587	-72.1215	Yantic River	Norwich	75	Oct 1930–Sep 2005	89.3
50	01184000	41.9873	-72.6054	Connecticut River	Suffield	77	Aug 1928–Sep 2005	9,660
51	01184100	41.9607	-72.7104	Stony Brook	Suffield	24	May 1981–Sep 2005	10.4
53	01184490	41.9139	-72.5500	Broad Brook	East Windsor	39	Aug 1961–Sep 1976, May 1982–Sep 2005	15.5
54	01184500	41.9118	-72.5629	Scantic River	East Windsor	43	Oct 1928–Oct 1971	98.2
55	01186000	41.9629	-73.0176	West Branch Farmington River	Barkhamsted	50	Oct 1955–Sep 2005	131
56	01186100	41.9309	-73.0818	Mad River	Winchester	13	Oct 1956–Sep 1969	18.5
58	01186500	41.9673	-73.0340	Still River	Colebrook	55	Oct 1948–Jul 1967, Jul 1969–Sep 2005	85
59	01187000	41.9537	-73.0137	West Branch Farmington River	Barkhamsted	26	Oct 1929–Sep 1955	217
60	01187300	42.0373	-72.9390	Hubbard River	Hartland	66	Jan 1938–Sep 1955, Oct 1956–Sep 2005	19.9
61	01187400	42.0343	-72.9298	Valley Brook	Hartland	32	Oct 1940–Sep 1972	7.03
63	01187800	41.8207	-72.9701	Nepaug River	New Hartford	52	Oct 1921–Sep 1955, Oct 1958–Sep 1972, Oct 1998–Sep 2001	23.5
64	01187850	41.7957	-72.9512	Clear Brook	Burlington	55	Oct 1921–Oct 1973, Oct 1998–Sep 2001	0.59

Table 1. Descriptions of streamgaging stations with 10 or more years of continuous record in Connecticut used to compute flow durations, low-flow frequencies, and monthly median flow statistics.—Continued

[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	Latitude (decimal degrees)	Longitude (decimal degrees)	River name	Town	Years of record	Period of record	Drainage area (mi ²)
65	01187980	41.7993	-72.9254	Farmington River	Avon	15	Nov 1962–Sep 1977	360
66	01188000	41.7862	-72.9648	Burlington Brook	Burlington	74	Oct 1931–Sep 2005	4.1
67	01188090	41.7559	-72.8868	Farmington River	Farmington	28	Oct 1977–Sep 2005	378
68	01189000	41.6732	-72.9007	Pequabuck River	Bristol	64	Oct 1941–Sep 2005	45.8
70	01189390	41.9543	-72.7795	East Branch Salmon Brook	Granby	13	Oct 1963–Oct 1976	39.5
71	01189500	41.9373	-72.7762	Salmon Brook	East Granby	17	Oct 1946–Sep 1963	67.4
72	01189995	41.9084	-72.7607	Farmington River	Simsbury	34	Oct 1971–Sep 2005	577
73	01190000	41.9115	-72.6873	Farmington River	Windsor	59	Oct 1928–Feb 1988	590
75	01190100	41.7120	-72.7370	Piper Brook	Newington	13	Jun 1958–Oct 1971	14.6
76	01190200	41.7045	-72.7257	Mill Brook	Newington	13	May 1958–Oct 1971	2.65
77	01190300	41.7704	-72.7370	Trout Brook	West Hartford	13	May 1958–Oct 1971	14.6
78	01190500	41.7340	-72.7137	South Branch Park River	Hartford	45	Oct 1936–Oct 1981	39.9
79	01190600	41.8254	-72.7393	Wash Brook	Bloomfield	13	May 1958–Oct 1971	5.54
80	01191000	41.7843	-72.7081	North Branch Park River	Hartford	50	Nov 1936–Sep 1986	26.8
81	01191500	41.7601	-72.6945	Park River	Hartford	25	Oct 1936–Oct 1981	72.5
83	01192500	41.7832	-72.5873	Hockanum River	East Hartford	74	Oct 1919–Sep 1921, Oct 1928–Oct 1971, Aug 1976–Sep 2005	73.4
84	01192600	41.7182	-72.5398	South Branch Salmon Brook	Glastonbury	16	Oct 1960–Sep 1976	0.94
85	01192650	41.6640	-72.5843	Roaring Brook	Glastonbury	10	Oct 1961–Sep 1971	24.3
86	01192700	41.6190	-72.7129	Mattabesset River	Berlin	10	Oct 1961–Sep 1971	46.5
88	01192883	41.5201	-72.7059	Coginchaug River	Middlefield	25	Dec 1980–Sep 2005	29.8
89	01192890	41.5362	-72.6873	Coginchaug River	Middlefield	19	Oct 1961–Dec 1980	34.7
94	01193500	41.5523	-72.4493	Salmon River	East Hampton	77	Oct 1928–Sep 2005	100
96	01193800	41.4284	-72.4226	Hemlock Valley Brook	East Haddam	16	Jul 1960–Oct 1976	2.62
97	01194000	41.4418	-72.3329	Eightmile River	East Haddam	29	Oct 1937–Sep 1966	20.1
98	01194500	41.4279	-72.3342	East Branch Eightmile River	Lyme	48	Oct 1937–Sep 1981, Sep 2002–Sep 2005	22.3
99	01195000	41.3029	-72.5154	Menunketesuck River	Clinton	24	Oct 1941–Sep 1963, Oct 1965–Sep 1967	11.2
100	01195100	41.3059	-72.5312	Indian River	Clinton	24	Nov 1981–Sep 2005	5.68
103	01195200	41.2826	-72.6193	Neck River	Madison	20	Sep 1961–Nov 1981	6.55
104	01195490	41.6018	-72.8837	Quinnipiac River	Southington	18	Nov 1987–Sep 2005	17.4
105	01196500	41.4495	-72.8409	Quinnipiac River	Wallingford	75	Oct 1930–Sep 2005	115

Table 1. Descriptions of streamgaging stations with 10 or more years of continuous record in Connecticut used to compute flow durations, low-flow frequencies, and monthly median flow statistics.—Continued[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	Latitude (decimal degrees)	Longitude (decimal degrees)	River name	Town	Years of record	Period of record	Drainage area (mi ²)
106	01196580	41.3687	-72.8415	Muddy River	North Haven	11	Sep 1962–Sep 1973	18
108	01196620	41.4209	-72.9029	Mill River	Hamden	29	Oct 1968–Sep 1970, Oct 1978–Sep 2005	24.5
109	01198500	42.0240	-73.3418	Blackberry River	North Canaan	22	Oct 1949–Oct 1971	45.9
114	01199000	41.9573	-73.3693	Housatonic River	Salisbury	93	Oct 1912–Sep 2005	634
115	01199050	41.9423	-73.3910	Salmon Creek	Salisbury	44	Oct 1961–Sep 2005	29.4
116	01199200	41.8243	-73.4301	Guinea Brook	Sharon	21	Aug 1960–Oct 1981	3.5
117	01200000	41.6589	-73.5289	Tennile River	Wingdale, New York	72	Oct 1929–Sep 1987, Oct 1991–Sep 2005	203
118	01200500	41.6531	-73.4898	Housatonic River	New Milford	65	Oct 1940–Sep 2005	996
119	01201190	41.6079	-73.4246	West Aspetuck River	New Milford	10	Oct 1962–Sep 1972	23.8
120	01201500	41.5201	-73.4182	Still River	New Milford	35	Oct 1931–Sep 1966	67.5
122	01201930	41.7895	-73.2590	Marshepaug River	Goshen	14	Oct 1967–Oct 1981	9.24
124	01203000	41.7233	-73.2936	Shepaug River	Roxbury	41	Oct 1930–Sep 1971	132
126	01203600	41.5757	-73.1787	Nonewaung River	Woodbury	19	Oct 1962–Sep 1976, Oct 1978–Sep 1979, Aug 2000–Sep 2000, Oct 2001–Sep 2005	17.7
129	01204000	41.4807	-73.2246	Pomperaug River	Southbury	73	Oct 1932–Sep 2005	75.1
130	01204800	41.3629	-73.2184	Copper Mill Brook	Monroe	18	Oct 1958–Oct 1976	2.45
131	01205500	41.3840	-73.1676	Housatonic River	Oxford	77	Oct 1928–Sep 2005	1,544
132	01205600	41.8009	-73.1234	West Brook Naugatuck River	Torrington	40	Oct 1956–Sep 1992, Oct 1993–Apr 1997	33.8
133	01205700	41.8034	-73.1179	East Branch Naugatuck River	Torrington	41	Oct 1956–Apr 1997	13.6
134	01206000	41.7043	-73.0643	Naugatuck River	Thomaston	29	Oct 1930–Sep 1959	71
135	01206400	41.7295	-73.0532	Leadmine Brook	Harwinton	13	Oct 1960–Oct 1973	19.6
136	01206500	41.7018	-73.0573	Leadmine Brook	Thomaston	29	Oct 1930–Sep 1959	24.3
137	01206900	41.6737	-73.0696	Naugatuck River	Thomaston	45	Oct 1960–Sep 2005	99.8
138	01208013	41.6537	-73.0948	Branch Brook	Watertown	15	Oct 1974–Oct 1989, Apr 1993–May 1993	20.8
139	01208420	41.5059	-73.0582	Hop Brook	Naugatuck	20	Oct 1969–Oct 1989	16.3
140	01208500	41.4423	-73.0626	Naugatuck River	Beacon Falls	83	Oct 1918–Sep 1924, Oct 1928–Sep 2005	260
141	01208873	41.1798	-73.2190	Rooster River	Trumbull	28	Apr 1977–Sep 2005	10.6
143	01208925	41.1657	-73.2704	Mill River	Fairfield	33	Oct 1972–Sep 2005	28.6
144	01208950	41.1529	-73.3059	Sasco Brook	Fairfield	41	Oct 1964–Sep 2005	7.38
145	01208990	41.2945	-73.3951	Saugatuck River	Redding	41	Oct 1964–Sep 2005	21
147	01209500	41.1709	-73.3662	Saugatuck River	Westport	35	Oct 1932–Sep 1967	79.8
148	01209700	41.1637	-73.4193	Norwalk River	Wilton	43	Sep 1962–Sep 2005	30

Table 2. Flow-duration statistics for 91 streamgaging stations with 10 or more years of continuous record in Connecticut.[Statistics based on data through water year 2005; USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map refer- ence number (fig. 1)	USGS station number	River name	Years of record	Drain- age area (mi ²)	Streamflow equaled or exceeded at indicated percentage of time, in cubic feet per second																	
					99	98	97	95	90	85	80	75	70	60	50	40	30	25	20	10	5	1
7	01118300	Pendleton Brook	47	4.02	0.07	0.12	0.18	0.30	0.57	0.91	1.30	1.80	2.50	4.00	5.70	7.60	9.80	11.0	13.0	19.0	26.0	50.0
13	01119500	Willimantic River	74	121	13.0	17.0	20.0	25.0	34.0	44.0	54.0	67.0	82.0	111	148	190	245	277	317	450	609	1,170
14	01120000	Hop River	39	74.8	4.30	5.60	6.30	7.80	11.0	15.0	21.0	28.0	36.0	52.0	73.0	100	133	155	183	283	400	785
16	01120500	Safford Brook	31	4.15	0.02	0.05	0.10	0.15	0.31	0.51	0.77	1.10	1.50	2.40	3.60	5.00	7.00	8.50	10.0	18.0	30.0	76.0
19	01121000	Mount Hope River	65	28.6	1.10	1.50	1.90	2.50	4.10	6.00	8.20	11.0	14.0	22.0	31.0	42.0	56.0	65.0	75.0	113	165	357
22	01122000	Natchaug River	69	174	6.00	11.0	17.0	24.0	36.0	48.0	60.0	77.0	95.0	136	193	256	337	388	451	675	950	1,900
23	01122500	Shetucket River	77	404	45.0	54.0	61.0	75.0	103	130	162	199	243	340	465	612	800	919	1,070	1,590	2,230	3,960
24	01123000	Little River	54	30	4.90	5.50	6.10	7.10	8.90	11.0	13.0	16.0	19.0	26.0	36.0	47.0	60.0	69.0	80.0	115	167	360
25	01124000	Quinebaug River	74	155	15.0	19.0	22.0	26.0	37.0	49.0	62.0	77.0	94	135	184	240	311	358	416	607	816	1,380
26	01124151	Quinebaug River	29	172	18.0	21.0	24.0	28.0	39.0	52.0	66.0	84.0	101	140	189	251	335	388	450	680	964	1,710
28	01125490	Little River	10	35.8	0.60	0.90	1.04	1.70	2.92	4.40	6.20	8.20	11.0	18.0	25.0	34.2	46.0	56.0	71.0	115	166	333
29	01125500	Quinebaug River	50	328	35.7	42	48	59	84	110	136	165	195	274	369	477	620	711.5	830	1,200	1,620	2,800
32	01126000	Fivemile River	34	57.8	5.60	7.40	8.80	12.0	20.0	27.0	33.0	38.0	43.0	55.0	71.0	91.0	116	131	150	207	270	438
34	01126500	Moosup River	39	83.6	5.80	7.40	8.80	12.0	18.0	24.0	32.0	41.0	54.0	80.0	107	138	178	203	239	350	471	852
35	01126600	Blackwell Brook	13	17	0.70	0.85	1.00	1.30	2.10	3.00	4.00	5.60	7.50	12.0	18.0	25.0	33.0	38.0	44.0	66.0	97.0	212
37	01126950	Pachaug River	12	53	0.76	4.00	8.00	9.00	12.0	16.0	21.0	28.0	39.0	57.0	73.0	94.0	115	130	150	204	271	476
38	01127000	Quinebaug River	87	713	53.0	94.0	110	147	232	298	366	440	510	695	910	1,170	1,500	1,700	1,960	2,790	3,700	6,120
41	01127500	Yantic River	75	89.3	5.80	6.80	7.80	9.40	13.0	18.0	26.0	36.0	46.0	68.0	95.0	129	172	200	239	368	532	1,180
50	01184000	Connecticut River	77	9,660	2,820	3,100	3,340	3,770	4,890	5,840	6,810	7,760	8,660	10,500	12,550	15,000	18,600	20,900	24,300	36,900	52,500	86,100
51	01184100	Stony Brook	24	10.4	0.28	0.40	0.46	0.65	1.20	1.80	2.60	3.50	4.50	6.70	9.60	13.0	19.0	22.0	27.0	45.0	70.0	160
53	01184490	Broad Brook	39	15.5	6.50	7.10	7.70	8.30	9.80	11.0	12.0	13.0	14.0	16.0	18.0	22.0	26.0	29.0	33.0	43.0	58.0	115
54	01184500	Scantic River	43	98.2	20.0	23.0	25.0	30.0	36.0	43.0	50.0	56.0	62.0	76.0	95.0	119	150	170	196	290	390	635
55	01186000	West Branch Farmington River	50	131	15.0	22.0	31.9	48.0	70.0	92.0	112	128.5	144	170	204	240	283	313	350	451	582	1,160
56	01186100	Mad River	13	18.5	0.40	0.50	0.66	0.90	1.50	2.10	2.80	3.40	4.40	7.40	11.0	16.0	23.0	28.0	35.0	63.0	94.0	228
58	01186500	Still River	55	85	8.50	11.0	12.0	15.0	23.0	31.0	39.0	48.0	57.0	77.0	101	131	173	201	239	371	554	1,160
59	01187000	West Branch Farmington River	26	217	37.0	43.0	49.0	58.0	78.0	95.0	110	122	140	182	240	313	403	468	555	863	1,230	2,450
60	01187300	Hubbard River	66	19.9	0.56	0.84	1.10	1.50	2.40	3.40	4.80	6.50	8.50	14.0	20.0	26.0	36.0	43.0	54.0	93.0	146	342
61	01187400	Valley Brook	32	7.03	0.30	0.40	0.40	0.50	0.80	1.00	1.60	2.20	3.00	5.00	7.20	9.60	13.0	16.0	19.0	30.0	50.0	109
63	01187800	Nepaug River	52	23.5	1.50	1.80	2.10	2.80	4.30	5.50	6.90	8.80	11.0	16.0	22.0	29.0	40.0	46.0	55.0	88.0	128	270
64	01187850	Clear Brook	55	0.59	0.53	0.53	0.61	0.70	0.79	0.88	0.97	1.10	1.10	1.30	1.50	1.70	1.90	2.10	2.20	2.70	3.10	4.20

Table 2. Flow-duration statistics for 91 streamgaging stations with 10 or more years of continuous record in Connecticut.—Continued

[Statistics based on data through water year 2005; USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map refer- ence number (fig. 1)	USGS station number	River name	Years of record	Drain- age area (mi ²)	Streamflow equaled or exceeded at indicated percentage of time, in cubic feet per second																	
					99	98	97	95	90	85	80	75	70	60	50	40	30	25	20	10	5	1
65	01187980	Farmington River	15	360	27.0	40.0	50.4	75.0	131	180	235	273	302	374	459	544	675	758	872	1,300	1,790	2,850
66	01188000	Burlington Brook	74	4.1	0.65	0.78	0.88	1.00	1.30	1.70	2.00	2.40	2.80	3.80	5.00	6.40	8.00	9.20	11.0	17.0	26.0	61.0
67	01188090	Farmington River	28	378	124	140	155	171	211	262	297	324	350	406	474	555	675	761	879	1,300	1,810	3,220
68	01189000	Pequabuck River	64	45.8	14.0	15.0	16.0	17.0	20.0	22.0	25.0	28.0	31.0	40.0	50.0	64.0	81.0	92.0	106	161	230	500
70	01189390	East Branch Salmon Brook	13	39.5	7.90	8.50	9.00	10.0	12.0	14.0	17.0	20.0	23.0	31.0	43.0	58.0	75.0	85.0	97.0	134	182	358
71	01189500	Salmon Brook	17	67.4	13.0	15.0	17.0	19.0	24.0	28.0	32.0	37.0	43.0	56.0	72.0	92.0	116	134	163	272	388	774
72	01189995	Farmington River	34	577	200	241	265	297	375	437	492	540	588	684	802	990	1,240	1,410	1,630	2,350	3,160	5,380
73	01190000	Farmington River	59	590	25.0	78.0	132	188	244	297	354	409	465	585	708	866	1,090	1,240	1,450	2,110	2,890	5,180
75	01190100	Piper Brook	13	14.6	1.90	2.60	3.20	4.20	5.50	6.40	7.20	8.00	8.80	10.0	13.0	17.0	23.0	28.0	33.0	48.0	69.0	155
76	01190200	Mill Brook	13	2.65	0.48	0.53	0.58	0.60	0.73	0.84	1.00	1.10	1.20	1.50	1.80	2.20	2.70	3.10	3.60	6.10	11.0	31.0
77	01190300	Trout Brook	13	14.6	1.70	2.50	3.10	4.20	5.30	6.10	7.30	8.50	9.50	12.0	15.0	18.0	22.0	26.0	30.0	47.0	67.0	146
78	01190500	South Branch Park River	45	39.9	11.0	13.0	14.0	16.0	19.0	21.0	24.0	26.0	29.0	36.0	45.0	55.0	70.0	80.0	93.0	144	215	499
79	01190600	Wash Brook	13	5.54	0.07	0.19	0.25	0.35	0.58	0.80	1.10	1.40	1.70	2.30	3.20	4.30	5.70	6.90	8.10	15.0	25.0	61.0
80	01191000	North Branch Park River	50	26.8	1.00	1.40	1.70	2.20	3.30	4.20	5.10	6.10	7.40	10.0	14.0	19.0	27.0	33.0	41.0	80.0	144	390
81	01191500	Park River	25	72.5	18.0	20.0	21.0	23.0	27.0	30.0	34.0	38.0	43.0	54.0	68.0	87.0	114	132	158	258	398	878
83	01192500	Hockanum River	74	73.4	18.0	23.0	26.0	31.0	39.0	45.0	50.0	55.0	61.0	73.0	87.0	106	131	146	164	222	290	508
84	01192600	South Branch Salmon Brook	16	0.94	0.31	0.33	0.36	0.42	0.51	0.62	0.71	0.79	0.86	1.00	1.20	1.50	1.80	2.00	2.30	3.00	3.70	5.86
85	01192650	Roaring Brook	10	24.3	4.40	4.90	5.40	6.40	7.40	8.30	9.50	11.0	12.0	15.0	20.0	28.0	36.0	41.0	49.0	73.0	102	191
86	01192700	Mattabeset River	10	46.5	17.0	18.0	20.0	21.0	24.0	26.0	28.0	31.0	33.0	39.0	46.0	54.0	67.0	74.0	85.0	138	197	454
88	01192883	Coginchaug River	25	29.8	1.17	1.50	1.90	2.60	4.78	7.00	9.70	13.0	17.0	26.0	35.0	48.0	62.0	72.0	86.0	139	203	380
89	01192890	Coginchaug River	19	34.7	2.00	2.30	2.70	3.30	5.00	6.70	8.80	11.0	14.0	23.0	34.0	46.0	63.0	75.0	93.0	149	209	475
94	01193500	Salmon River	77	100	6.50	8.50	10.0	13.0	19.0	25.0	32.0	42.0	54.0	83.0	116	157	205	236	274	402	569	1,160
96	01193800	Hemlock Valley Brook	16	2.62	0.20	0.22	0.25	0.30	0.40	0.55	0.79	1.10	1.40	2.20	3.30	4.50	6.00	6.90	8.00	12.0	16.0	34.0
97	01194000	Eightmile River	29	20.1	0.60	1.00	1.30	1.60	2.50	3.50	5.00	6.70	8.70	16.0	24.0	33.0	43.0	50.0	58.0	85.0	119	261
98	01194500	East Branch Eightmile River	48	22.3	0.65	1.10	1.40	1.90	3.40	4.90	6.80	9.00	12.0	20.0	29.0	39.0	50.0	58.0	68.0	101	140	287
99	01195000	Menunketesuck River	24	11.2	0.15	0.30	0.40	0.70	1.30	1.90	2.50	3.30	4.30	7.70	13.0	18.0	24.0	28.0	33.0	49.0	69.0	148
100	01195100	Indian River	24	5.68	0.10	0.15	0.20	0.29	0.50	0.75	1.10	1.60	2.20	4.10	5.80	8.00	11.0	13.0	15.0	22.0	31.0	69.0
103	01195200	Neck River	20	6.55	0.06	0.11	0.15	0.29	0.60	0.98	1.40	2.00	2.50	4.30	6.60	9.30	12.0	15.0	17.0	27.0	38.0	85.0
104	01195490	Quinnipiac River	18	17.4	4.60	5.10	5.40	6.30	8.10	9.80	11.0	13.0	15.0	19.0	23.0	27.0	33.0	37.0	42.0	61.0	88.0	192
105	01196500	Quinnipiac River	75	115	36.0	41.0	44.0	50.0	61.0	70.0	79.0	88.0	98.0	122	151	187	229	257	295	420	582	1,190

Table 2. Flow-duration statistics for 91 streamgaging stations with 10 or more years of continuous record in Connecticut.—Continued[Statistics based on data through water year 2005; USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map refer- ence number (fig. 1)	USGS station number	River name	Years of record	Drain- age area (mi²)	Streamflow equaled or exceeded at indicated percentage of time, in cubic feet per second																	
					99	98	97	95	90	85	80	75	70	60	50	40	30	25	20	10	5	1
106	01196580	Muddy River	11	18	1.20	1.50	1.60	2.00	2.60	3.20	4.00	5.20	6.20	9.00	13.0	19.0	26.0	31.0	38.0	62.0	97.0	211
108	01196620	Mill River	29	24.5	2.30	3.20	3.70	4.40	6.30	7.80	9.40	12.0	14.0	20.0	29.0	38.0	48.2	56.0	65.0	98.0	147	354
109	01198500	Blackberry River	22	45.9	3.50	4.40	5.00	6.10	8.74	11.0	14.0	18.0	22.0	30.0	40.0	52.4	71.0	83.0	101	160	241	555
114	01199000	Housatonic River	93	634	117	139	152	177	230	277	323	373	429	560	732	939	1,210	1,400	1,620	2,390	3,220	5,340
115	01199050	Salmon Creek	44	29.4	4.00	4.70	5.30	6.30	8.70	11.0	14.0	16.0	19.0	25.0	32.0	41.0	53.0	61.0	70.0	101	141	283
116	01199200	Guinea Brook	21	3.5	0.00	0.01	0.04	0.07	0.19	0.35	0.59	0.96	1.40	2.60	3.80	5.50	7.80	9.20	11.0	17.0	24.0	46.0
117	01200000	Tenmile River	72	203	4.30	5.60	6.30	7.80	11.0	15.0	21.0	28.0	36.0	52.0	73.0	100	133	155	183	283	400	785
118	01200500	Housatonic River	65	996	173	201	221	257	331	409	492	580	676	896	1,160	1,480	1,910	2,190	2,530	3,670	4,940	8,240
119	01201190	West Aspetuck River	10	23.8	0.95	1.30	1.60	2.20	3.00	4.00	5.30	7.10	9.70	16.0	21.0	29.0	38.0	44.0	53.0	79.0	152	204
120	01201500	Still River	35	67.5	16.0	18.0	19.0	21.0	26.0	30.0	34.0	40.0	45.0	59.0	75.0	96.0	123	140	164	250	348	600
122	01201930	Marshpaug River	14	9.24	0.45	0.68	0.80	1.20	2.10	3.00	3.70	4.40	5.40	8.00	12.0	17.0	24.0	27.0	32.0	45.0	60.0	126
124	01203000	Shepaug River	41	132	7.30	8.60	9.70	12.0	17.0	24.0	32.0	42.0	56.0	90.0	135	189	257	300	354	530	725	1,360
126	01203600	Nonewaug River	19	17.7	0.80	1.00	1.20	1.60	2.70	3.50	4.40	5.40	7.00	11.5	16	23	30	35	42.0	65.0	99.0	238
129	01204000	Pomperaug River	73	75.1	7.40	8.72	9.80	12.0	16.0	21.0	26.0	33.0	40.0	59.0	80.0	106	139	159	185	275	398	850
130	01204800	Copper Mill Brook	18	2.45	0.10	0.14	0.17	0.21	0.35	0.53	0.70	0.90	1.20	1.90	2.80	3.80	4.90	5.70	6.80	11.0	16.0	37.2
131	01205500	Housatonic River	77	1,544	63.0	75.5	87.0	108	240	440	625	800	974	1,390	1,870	2,450	3,180	3,630	4,140	5,900	7,400	12,700
132	01205600	West Branch Naugatuck River	40	33.8	2.10	2.90	3.50	4.20	6.00	7.70	10.0	13.0	16.0	24.0	32.0	43.0	58.0	69.0	84.0	138	211	471
133	01205700	East Branch Naugatuck River	41	13.6	1.80	2.10	2.30	2.60	3.40	4.40	5.50	6.70	8.20	11.0	15.0	19.0	25.0	29.0	35.0	55.0	88.0	182
134	01206000	Naugatuck River	29	71	16.0	17.0	18.0	20.0	24.0	27.0	30.0	34.0	39.0	54.0	76.0	103	139	161	195	310	470	1,020
135	01206400	Leadmine Brook	13	19.6	0.60	0.84	1.00	1.30	2.30	3.70	6.00	8.80	12.0	19.0	23.0	30.0	38.0	45.0	52.0	81.0	116	247
136	01206500	Leadmine Brook	29	24.3	0.60	0.80	0.90	1.30	2.30	3.60	5.50	7.70	10.0	16.0	25.0	35.0	47.0	56.0	67.0	110	167	358
137	01206900	Naugatuck River	45	99.8	13.0	15.0	17.0	19.0	26.0	33.0	40.0	50.0	61.0	86.0	114	149	193	224	267	435	676	1,570
138	01208013	Branch Brook	15	20.8	0.41	0.55	0.74	1.50	3.60	5.30	7.00	8.30	9.80	13.0	17.0	23.0	32.0	37.0	43.0	67.0	109	383
139	01208420	Hop Brook	20	16.3	0.85	1.10	1.30	1.80	3.10	4.60	6.10	7.60	9.40	14.0	20.0	26.0	33.0	37.0	44.0	70.0	116	280
140	01208500	Naugatuck River	83	260	64.0	72.0	77.0	86.0	105	121	139	160	186	246	321	416	538	624	724	1,110	1,630	3,090
141	01208873	Rooster River	28	10.6	1.10	1.40	1.50	1.80	2.60	3.20	3.90	4.60	5.50	7.30	9.40	12.0	14.0	16.0	19.0	30.0	49.0	135
143	01208925	Mill River	33	28.6	1.30	1.80	2.00	2.60	4.10	5.50	7.10	8.90	11.0	15.0	21.0	28.0	38.0	45.0	53.6	85.0	121	273
144	01208950	Sasco Brook	41	7.38	0.09	0.16	0.23	0.36	0.75	1.20	1.80	2.60	3.40	5.40	7.90	11.0	14.0	16.0	19.0	29.0	44.0	100
145	01208990	Saugatuck River	41	21	0.35	0.62	0.89	1.30	2.60	4.10	6.20	8.50	11.0	18.0	25.0	34.0	44.0	50.0	60.0	92.0	129	258
147	01209500	Saugatuck River	35	79.8	2.60	4.56	5.80	7.10	9.60	12.0	14.0	18.0	21.0	34.0	53.0	85.0	127	155	190	296	416	808
148	01209700	Norwalk River	43	30	1.80	2.40	2.90	3.70	5.40	7.30	9.60	12.0	16.0	23.0	33.0	44.0	59.0	69.0	82.0	125	178	392

Table 3. Low-flow frequency statistics for 91 streamgaging stations with 10 or more years of record in Connecticut.

[Low-flow frequency statistics are based on the climatic year, which begins on April 1 and ends on March 31, and on flow record through March 31, 2003. USGS, U.S. Geological Survey; mi², square miles; ft³/s, cubic feet per second; --, no data; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	River name	Town	Years of record	Low-flow frequency statistic			
					Drainage area (mi ²)	7Q ₁₀ (ft ³ /s)	7Q ₂ (ft ³ /s)	30Q ₂ (ft ³ /s)
7	01118300	Pendleton Brook	North Stonington	47	4.02	0.04	0.21	0.49
13	01119500	Willimantic River	Mansfield	74	121	13.9	25.8	36.0
14	01120000	Hop River	Columbia	39	74.8	3.71	7.13	10.9
16	01120500	Safford Brook	Woodstock	31	4.15	0.02	0.15	0.34
19	01121000	Mount Hope River	Ashford	65	28.6	0.93	2.25	4.00
22	01122000	Natchaug River	Windham	69	174	8.94	21.7	32.6
23	01122500	Shetucket River	Windham	77	404	44.7	72.6	97.5
24	01123000	Little River	Canterbury	54	30	4.50	6.81	8.87
25	01124000	Quinebaug River	Thompson	74	155	15.4	26.0	36.3
26	01124151	Quinebaug River	Thompson	29	172	13.6	22.0	34.2
28	01125490	Little River	Putnam	10	35.8	0.50	1.30	2.48
29	01125500	Quinebaug River	Putnam	50	328	37.3	70.9	91.1
32	01126000	Fivemile River	Killingly	34	57.8	7.66	17.5	22.9
34	01126500	Moosup River	Plainfield	39	83.6	7.96	13.7	19.0
35	01126600	Blackwell Brook	Brooklyn	13	17	0.58	1.29	2.17
37	01126950	Pachaug River	Griswold	12	53	2.12	6.50	13.7
38	01127000	Quinebaug River	Griswold	87	713	92.2	174	229
41	01127500	Yantic River	Norwich	75	89.3	4.91	9.26	15.4
50	01184000	Connecticut River	Suffield	77	9,660	2,300	3,210	4,070
51	01184100	Stony Brook	Suffield	24	10.4	0.20	0.53	1.22
53	01184490	Broad Brook	East Windsor	39	15.5	5.64	9.30	10.7
54	01184500	Scantic River	East Windsor	43	98.2	18.3	31.7	40.4
55	01186000	West Branch Farmington River	Barkhamsted	50	131	16.6	59.5	79.3
56	01186100	Mad River	Winchester	13	18.5	0.29	0.83	1.70
58	01186500	Still River	Colebrook	55	85	6.41	14.2	22.8
59	01187000	West Branch Farmington River	Barkhamsted	26	217	36.0	60.1	85.5
60	01187300	Hubbard River	Hartland	66	19.9	0.47	1.28	2.35
61	01187400	Valley Brook	Hartland	32	7.03	0.24	0.46	0.73
63	01187800	Nepaug River	New Hartford	52	23.5	0.93	2.84	4.14
64	01187850	Clear Brook	Burlington	55	0.59	0.45	0.76	0.88

Table 3. Low-flow frequency statistics for 91 streamgaging stations with 10 or more years of record in Connecticut.—Continued

[Low-flow frequency statistics are based on the climatic year, which begins on April 1 and ends on March 31, and on flow record through March 31, 2003. USGS, U.S. Geological Survey; mi², square miles; ft³/s, cubic feet per second; --, no data; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	River name	Town	Years of record	Low-flow frequency statistic				Number of days and dates of zero flow
					Drainage area (mi ²)	7Q ₁₀ (ft ³ /s)	7Q ₂ (ft ³ /s)	30Q ₂ (ft ³ /s)	
65	01187980	Farmington River	Avon	15	360	35.8	113	155	--
66	01188000	Burlington Brook	Burlington	74	4.1	0.57	1.06	1.48	--
67	01188090	Farmington River	Farmington	28	378	106	172	226	--
68	01189000	Pequabuck River	Bristol	64	45.8	13.3	18.1	21.4	--
70	01189390	East Branch Salmon Brook	Granby	13	39.5	6.92	11.0	13.8	--
71	01189500	Salmon Brook	East Granby	17	67.4	12.7	19.3	23.1	--
72	01189995	Farmington River	Simsbury	34	577	181	281	394	--
73	01190000	Farmington River	Windsor	47*	590	235	118	331	--
75	01190100	Piper Brook	Newington	13	14.6	2.24	4.97	7.78	--
76	01190200	Mill Brook	Newington	13	2.65	0.39	0.67	0.91	--
77	01190300	Trout Brook	West Hartford	13	14.6	1.06	3.96	6.08	--
78	01190500	South Branch Park River	Hartford	45	39.9	10.1	16.4	20.3	--
79	01190600	Wash Brook	Bloomfield	13	5.54	0.02	0.31	0.70	(14) 10/8–15/1964, 9/28/1965, 10/3–5/1965, 9/5/1968
80	01191000	North Branch Park River	Hartford	50	26.8	0.64	2.46	3.94	
81	01191500	Park River	Hartford	25	72.5	17.1	23.2	27.7	
83	01192500	Hockanum River	East Hartford	74	73.4	22.7	36.7	46.0	--
84	01192600	South Branch Salmon Brook	Glastonbury	16	0.94	0.33	0.57	0.64	--
80	01191000	North Branch Park River	Hartford	50	26.8	0.64	2.46	3.94	--
81	01191500	Park River	Hartford	25	72.5	17.1	23.2	27.7	--
83	01192500	Hockanum River	East Hartford	74	73.4	22.7	36.7	46.0	--
84	01192600	South Branch Salmon Brook	Glastonbury	16	0.94	0.33	0.57	0.64	--
85	01192650	Roaring Brook	Glastonbury	10	24.3	4.19	5.97	7.14	--
86	01192700	Mattabesset River	Berlin	10	46.5	15.0	21.1	24.7	--
88	01192883	Coginchaug River	Middlefield	25	29.8	0.62	2.06	3.74	--
89	01192890	Coginchaug River	Middlefield	19	34.7	1.70	3.05	5.15	--
94	01193500	Salmon River	East Hampton	77	100	5.32	10.9	17.5	--
96	01193800	Hemlock Valley Brook	East Haddam	16	2.62	0.15	0.27	0.44	--
97	01194000	Eightmile River	East Haddam	29	20.1	0.42	1.37	2.30	--
98	01194500	East Branch Eightmile River	Lyme	48	22.3	0.44	1.60	2.79	--
99	01195000	Menunketesuck River	Clinton	24	11.2	0.15	0.75	1.22	(4) 8/30–31/1944, 9/10–11/1944
100	01195100	Indian River	Clinton	24	5.68	0.04	0.24	0.46	--
103	01195200	Neck River	Madison	20	6.55	0.02	0.22	0.52	--
104	01195490	Quinnipiac River	Southington	18	17.4	4.08	6.71	8.78	--
105	01196500	Quinnipiac River	Wallingford	75	115	33.6	51.8	62.0	--
106	01196580	Muddy River	North Haven	11	18	1.07	1.88	2.81	--

Table 3. Low-flow frequency statistics for 91 streamgaging stations with 10 or more years of record in Connecticut.—Continued

[Low-flow frequency statistics are based on the climatic year, which begins on April 1 and ends on March 31, and on flow record through March 31, 2003. USGS, U.S. Geological Survey; mi², square miles; ft³/s, cubic feet per second; --, no data; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	River name	Town	Years of record	Drainage area (mi ²)	Low-flow frequency statistic			
						7Q ₁₀ (ft ³ /s)	7Q ₂ (ft ³ /s)	30Q ₂ (ft ³ /s)	Number of days and dates of zero flow
108	01196620	Mill River	Hamden	29	24.5	1.37	5.34	6.93	--
109	01198500	Blackberry River	North Canaan	22	45.9	2.99	6.66	9.79	--
114	01199000	Housatonic River	Salisbury	93	634	110	189	238	--
115	01199050	Salmon Creek	Salisbury	44	29.4	3.22	6.60	9.05	--
116	01199200	Guinea Brook	Sharon	21	3.5	0.00	0.16	0.19	(141 total)—(5) 1962, (30) 1964, (38) 1965, (28) 1966, (8) 1968, (7) 1970, (1) 1974, (24) 1980
117	01200000	Tenmile River	Wingdale, NY	72	203	12.7	27.8	35.8	--
118	01200500	Housatonic River	New Milford	65	996	158	263	336	--
119	01201190	West Aspetuck River	New Milford	10	23.8	0.77	1.59	2.54	--
120	01201500	Still River	New Milford	35	67.5	14.4	20.7	26.0	--
122	01201930	Marshepaug River	Goshen	14	9.24	0.44	1.27	2.05	--
124	01203000	Shepaug River	Roxbury	41	132	6.23	11.5	16.5	--
126	01203600	Nonwaug River	Wadsworth	19	17.7	0.65	1.70	2.80	--
129	01204000	Pomperaug River	Southbury	73	75.1	6.16	11.3	15.7	--
130	01204800	Copper Mill Brook	Monroe	18	2.45	0.08	0.19	0.35	--
131	01205500	Housatonic River	Oxford	77	1,544	128	307	479	(1) 10/12/1930
132	01205600	West Branch Naugatuck River	Torrington	40	33.8	1.33	4.04	6.11	--
133	01205700	East Branch Naugatuck River	Torrington	41	13.6	1.53	2.40	3.73	--
134	01206000	Naugatuck River	Thomaston	29	71	15.6	21.8	25.4	--
135	01206400	Leadmine Brook	Harwinton	13	19.6	0.41	1.15	2.26	--
136	01206500	Leadmine Brook	Thomaston	29	24.3	0.36	1.18	2.18	--
137	01206900	Naugatuck River	Thomaston	45	99.8	11.6	18.5	26.5	--
138	01208013	Branch Brook	Watertown	15	20.8	0.45	2.14	3.88	--
139	01208420	Hop Brook	Naugatuck	20	16.3	0.44	1.28	2.61	--
140	01208500	Naugatuck River	Beacon Falls	83	260	61.7	89.1	110	--
141	01208873	Rooster River	Trumbull	28	10.6	1.00	1.92	3.07	--
143	01208925	Mill River	Fairfield	33	28.6	1.14	2.67	4.50	(1) 11/1/1979
144	01208950	Sasco Brook	Fairfield	41	7.38	0.04	0.32	0.76	--
145	01208990	Saugatuck River	Redding	41	21	0.27	1.27	2.44	--
147	01209500	Saugatuck River	Westport	35	79.8	2.25	7.81	10.7	--
148	01209700	Norwalk River	Wilton	43	30	1.60	3.72	5.43	--

* Post-reservoir record 1940–1987.

Table 4. Monthly median streamflows for 91 stations with 10 or more years of record in Connecticut.

[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map reference number (fig. 1)	USGS station number	River name	Town	Drainage area (mi ²)	Monthly median flow, in cubic feet per second											
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
7	01118300	Pendleton Brook	North Stonington	4.02	8.60	9.50	12.0	12.0	8.30	3.70	1.20	0.80	0.76	2.10	5.10	8.50
13	01119500	Willimantic River	Mansfield	121	190	207	313	324	220	121	62.0	49.0	46.0	69.0	130	180
14	01120000	Hop River	Columbia	74.8	100	118	208	176	113	50.0	20.0	14.0	16.0	34.0	77.0	99.0
16	01120500	Safford Brook	Woodstock	4.15	5.20	5.60	11.0	8.95	4.90	1.90	0.68	0.42	0.55	1.40	4.50	6.00
19	01121000	Mount Hope River	Ashford	28.6	44.0	50.0	77.0	70.0	47.0	20.0	7.70	5.40	5.90	13.0	28.0	42.0
22	01122000	Natchaug River	Windham	174	258	290	461	445	290	138	68.0	49.0	48.0	81.0	176	243
23	01122500	Shetucket River	Windham	404	620	700	1,090	1,060	704	344	173	132	130	216	426	591
24	01123000	Little River	Canterbury	30	50.0	57.0	80.0	77.0	53.0	27.0	14.0	11.0	10.0	16.0	33.0	49.5
25	01124000	Quinebaug River	Thompson	155	250	264	425	446	266	134	68.0	52.0	50.0	93.0	164	238
26	01124151	Quinebaug River	Thompson	172	242	268	440	507	299	168	77.0	50.0	50.0	107	159	278
28	01125490	Little River	Putnam	35.8	37.0	42.0	100	80.0	41.5	21.0	6.60	3.90	4.70	8.70	25.0	30.0
29	01125500	Quinebaug River	Putnam	328	487	523	915	925	532	301	158	126	120	159	313	414
32	01126000	Fivemile River	Killingly	57.8	91.0	114	170	151	107	63.0	36.0	32.0	33.0	36.0	58.0	83.0
34	01126500	Moosup River	Plainfield	83.6	150	170	265	224	151	81.0	36.0	26.0	25.0	40.0	95.0	139
35	01126600	Blackwell Brook	Brooklyn	17	27.0	31.0	46.0	40.5	28.0	11.0	4.40	3.00	3.20	5.50	15.0	30.0
37	01126950	Pachaug River	Griswold	53	96.0	109	160	144	104	63.0	20.0	15.0	26.0	38.5	54.5	82.0
38	01127000	Quinebaug River	Griswold	713	1,220	1,350	2,090	2,050	1,340	715	398	339	325	444	764	1,140
41	01127500	Yantic River	Norwich	89.3	144	168	246	218	138	61.0	24.0	20.0	23.0	43.0	94.0	132
50	01184000	Connecticut River	Suffield	9,660	12,200	12,400	20,100	38,350	20,600	12,350	7,470	6,220	6,060	8,970	14,600	15,300
51	01184100	Stony Brook	Suffield	10.4	12.0	16.0	25.5	23.0	13.0	5.90	2.70	1.70	1.90	5.55	11.0	13.0
53	01184490	Broad Brook	East Windsor	15.5	21.0	24.0	33.0	32.0	25.0	19.0	14.0	13.0	12.0	13.0	16.0	20.0
54	01184500	Scantic River	East Windsor	98.2	119	125	220	204	141	89.0	59.0	47.0	47.0	55.0	82.0	101
55	01186000	West Branch Farmington River	Barkhamsted	131	194	175	209	308	230	224	198	232	118	139	225	216
56	01186100	Mad River	Winchester	18.5	14.0	15.0	32.0	56.5	21.0	7.90	3.20	2.70	2.30	3.60	8.85	15.0
58	01186500	Still River	Colebrook	85	120	130	215	260	145	70.0	35.0	30.0	39.0	67.0	114	130
59	01187000	West Branch Farmington River	Barkhamsted	217	312	290	532	688	374	196	116	99	116	133	222	280
60	01187300	Hubbard River	Hartland	19.9	22.0	24.0	49.0	61.0	31.0	12.0	4.60	3.00	3.60	8.60	25.0	28.0
61	01187400	Valley Brook	Hartland	7.03	8.00	8.50	19.0	25.0	14.0	6.00	2.20	1.00	0.90	1.80	7.10	9.50
63	01187800	Nepaug River	New Hartford	23.5	27.0	28.0	62.0	58.5	37.0	18.0	7.60	5.50	6.00	8.60	20.0	26.0
64	01187850	Clear Brook	Burlington	0.59	1.20	1.30	1.80	2.20	2.20	1.90	1.60	1.40	1.20	1.10	1.10	1.10
65	01187980	Farmington River	Avon	360	386	490	797	956	667	358	299	308	317	354	388	511
66	01188000	Burlington Brook	Burlington	4.1	5.50	6.20	11.0	11.0	7.40	3.90	2.30	1.80	1.70	2.60	5.00	6.00
67	01188090	Farmington River	Farmington	378	500	526	769	971	579	450	340	382	373	377	517	520
68	01189000	Pequabuck River	Bristol	45.8	60.0	68.0	102	106	76.0	43.0	30.0	25.5	24.0	27.0	44.0	59.0
70	01189390	East Branch Salmon Brook	Granby	39.5	53.0	64.0	99.0	97.5	67.0	36.0	21.0	18.0	17.0	18.0	35.0	59.0

Table 4. Monthly median streamflows for 91 stations with 10 or more years of record in Connecticut.—Continued

[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map ref- erence number (fig. 1)	USGS station number	River name	Town	Drain- age area (mi ²)	Monthly median flow, in cubic feet per second											
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
71	01189500	Salmon Brook	East Granby	67.4	85.0	91.5	178	213	121	64.0	41.0	29.0	27.0	32.0	65.0	78.0
72	01189995	Farmington River	Simsbury	577	940	951	1,470	1,720	1,140	732	545	588	575	630	775	981
73	01190000	Farmington River	Windsor	590	752	848	1,450	1,730	1,030	664	425	418	432	450	646	766
75	01190100	Piper Brook	Newington	14.6	12.0	24.0	34.0	27.0	13.0	11.0	8.00	8.00	8.00	9.30	15.0	16.0
76	01190200	Mill Brook	Newington	2.65	2.00	2.40	3.80	2.85	2.10	1.40	1.10	1.10	1.20	1.40	2.30	2.00
77	01190300	Trout Brook	West Hartford	14.6	18.0	20.0	35.0	27.0	17.0	10.5	8.20	7.20	6.80	8.70	16.0	15.0
78	01190500	South Branch Park River	Hartford	39.9	53.0	65.0	95.0	76.0	53.0	35.0	27.0	23.0	24.0	27.0	42.0	55.0
79	01190600	Wash Brook	Bloomfield	5.54	4.00	5.10	12.0	7.20	4.30	2.20	1.40	0.90	0.82	1.60	4.10	3.80
80	01191000	North Branch Park River	Hartford	26.8	19.0	25.0	44.0	31.0	19.0	9.90	6.30	5.00	4.60	6.40	14.0	20.0
81	01191500	Park River	Hartford	72.5	81.0	108	168	129	86.0	51.0	39.0	32.0	32.0	37.0	66.5	90.0
83	01192500	Hockanum River	East Hartford	73.4	101	116	164	165	125	85.0	63.0	58.0	52.0	58.0	72.0	91.0
84	01192600	South Branch Salmon Brook	Glastonbury	0.94	1.10	1.30	2.30	2.40	2.00	1.50	1.10	0.90	0.80	0.75	0.88	1.10
85	01192650	Roaring Brook	Glastonbury	24.3	25.0	34.0	63.0	53.0	38.0	18.0	10.0	8.00	7.70	11.0	16.0	21.0
86	01192700	Mattabesset River	Berlin	46.5	50.0	64.0	117	78.0	53.0	37.0	27.0	28.0	28.0	32.0	47.0	48.0
88	01192883	Coginchaug River	Middlefield	29.8	52.0	63.0	70.0	71.0	39.0	20.0	8.50	7.00	7.00	19.0	39.0	56.0
89	01192890	Coginchaug River	Middlefield	34.7	57.0	58.0	99.0	68.0	50.0	19.0	8.20	6.90	8.80	13.0	33.0	61.0
94	01193500	Salmon River	East Hampton	100	165	185	280	262	179	80.5	35.0	24.0	24.0	43.0	101	154
96	01193800	Hemlock Valley Brook	East Haddam	2.62	5.20	6.00	8.00	6.90	5.80	2.40	0.87	0.50	0.55	1.20	2.60	4.55
97	01194000	Eightmile River	East Haddam	20.1	35.0	47.0	61.0	52.0	36.0	14.0	5.60	3.60	3.00	5.60	21.0	32.0
98	01194500	East Branch Eightmile River	Lyme	22.3	41.0	49.0	70.0	59.0	44.0	18.0	6.45	4.40	4.60	9.00	27.0	43.0
99	01195000	Menunketesuck River	Clinton	11.2	19.0	24.0	37.0	27.0	22.0	6.40	2.80	2.20	1.80	2.30	11.0	18.0
100	01195100	Indian River	Clinton	5.68	9.35	11.0	12.0	14.0	8.00	3.20	0.87	0.76	0.75	1.80	5.90	9.20
103	01195200	Neck River	Madison	6.55	10.0	11.0	18.5	15.0	11.5	4.10	1.40	0.83	0.82	2.20	5.10	9.80
104	01195490	Quinnipiac River	Southington	17.4	27.0	28.0	35.0	39.0	30.0	20.0	14.0	12.0	11.0	14.0	22.0	25.0
105	01196500	Quinnipiac River	Wallingford	115	182	209	289	277	204	130	93.0	79.0	76.0	86.0	135	175
106	01196580	Muddy River	North Haven	18	20.0	30.0	43.0	31.0	23.0	9.50	5.30	4.00	3.60	4.90	11.0	18.0
108	01196620	Mill River	Hamden	24.5	38.0	44.0	57.0	63.0	44.0	24.0	12.0	9.00	8.30	12.0	23.5	37.0
109	01198500	Blackberry River	North Canaan	45.9	43.0	47.0	87.0	136	66.0	31.0	15.0	12.0	13.0	16.0	44.0	53.0
114	01199000	Housatonic River	Salisbury	634	812	830	1,550	1,990	1,180	632	386	315	305	400	710	870
115	01199050	Salmon Creek	Salisbury	29.4	34.0	40.0	67.0	72.0	45.0	26.0	15.0	12.0	13.0	20.0	34.0	41.0
116	01199200	Guinea Brook	Sharon	3.5	4.40	5.20	11.0	10.0	6.70	2.30	0.69	0.40	0.29	1.10	4.20	6.10
117	01200000	Tennile River	Wingdale, NY	132	250	271	487	490	294	154	82.0	53.0	46.0	64.0	164	260
118	01200500	Housatonic River	New Milford	996	1,300	1,440	2,510	2,860	1,830	1,020	590	440	414	576	1,080	1,410
119	01201190	West Aspetuck River	New Milford	23.8	97.0	108	175	149	102	57.0	40.0	32.0	30.5	38.0	72.0	87.0
120	01201500	Still River	New Milford	67.5	25.0	34.0	66.0	56.0	35.0	16.5	7.10	3.80	3.80	5.70	18.0	30.0

Table 4. Monthly median streamflows for 91 stations with 10 or more years of record in Connecticut.—Continued

[USGS, U.S. Geological Survey; mi², square miles; **bold** indicates Index Station]

Map ref- erence number (fig. 1)	USGS station number	River name	Town	Drain- age area (mi ²)	Monthly median flow, in cubic feet per second											
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
122	01201930	Marshepaug River	Goshen	9.24	15.0	15.0	26.0	28.0	14.0	7.25	4.10	3.00	5.20	10.0	21.0	25.0
124	01203000	Shepaug River	Roxbury	132	185	196	369	404	230	103	42.0	23.0	26.5	36	100	169
126	01203600	Nonaug River	Woodbury	17.7	25.0	25.0	43.0	36.0	22.0	9.00	4.70	3.80	4.20	5.40	15.0	27.0
129	01204000	Pomperaug River	Southbury	75.1	105	115	188	176	114	56.0	29.0	22.0	20.0	34.0	75.0	112
130	01204800	Copper Mill Brook	Monroe	2.45	4.00	4.60	6.90	6.10	4.00	1.60	0.64	0.50	0.47	0.90	2.70	3.90
131	01205500	Housatonic River	Oxford	1,544	2,350	2,420	4,030	4,480	2,890	1,620	920	684	646	892	1,720	2,360
132	01205600	West Brook Naugatuck River	Torrington	33.8	37.0	41.0	76.0	94.5	48.0	21.0	11.0	8.40	8.70	14.0	35.0	45.0
133	01205700	East Branch Naugatuck River	Torrington	13.6	17.0	19.0	33.0	38.0	20.0	9.60	5.60	5.10	4.70	8.10	16.0	22.0
134	01206000	Naugatuck River	Thomaston	71	100	100	199	212	123	60.0	36.0	30.0	29.0	32.0	61.0	96.0
135	01206400	Leadmine Brook	Harwinton	19.6	27.0	28.0	65.0	51.0	32.0	16.0	5.90	3.30	3.95	11.0	28.0	29.0
136	01206500	Leadmine Brook	Thomaston	24.3	34.0	35.0	70.0	66.0	41.0	16.0	5.30	3.10	4.10	8.00	23.5	33.0
137	01206900	Naugatuck River	Thomaston	99.8	145	152	260	262	159	75.0	42.0	34.0	35.5	59.0	120	159
138	01208013	Branch Brook	Watertown	20.8	22.0	23.5	42.0	35.0	23.0	12.0	8.50	6.70	7.20	16.0	20.0	28.0
139	01208420	Hop Brook	Naugatuck	16.3	25.5	30.0	37.0	37.0	27.0	12.0	6.00	4.75	4.70	9.30	19.0	28.0
140	01208500	Naugatuck River	Beacon Falls	260	395	423	731	730	476	243	151	132	132	165	310	410
141	01208873	Rooster River	Trumbull	10.6	12.0	12.0	14.0	16.0	12.0	7.50	4.40	4.10	3.90	4.70	9.00	12.0
143	01208925	Mill River	Fairfield	28.6	29.0	34.0	46.0	52.5	32.0	15.0	7.70	6.90	6.60	11.0	17.0	27.0
144	01208950	Sasco Brook	Fairfield	7.38	11.0	13.0	17.0	16.0	11.0	4.60	1.60	1.30	1.45	3.40	7.90	12.0
145	01208990	Saugatuck River	Redding	21	36.0	40.0	54.0	51.0	34.0	15.0	6.70	4.40	3.70	9.80	25.0	41.0
147	01209500	Saugatuck River	Westport	79.8	100	102	230	188	107	31.0	16.0	12.0	13.0	18.0	43.0	75.0
148	01209700	Norwalk River	Wilton	30	45.0	53.0	77.0	73.0	46.0	21.0	11.0	9.00	7.20	13.0	31.0	49.0

Table 5. Descriptions of short-term stations in Connecticut used in correlation of daily mean base flows to estimate low-flow statistics.[USGS, U.S. Geological Survey; mi², square miles]

Map reference number (fig. 2)	USGS station number	Latitude (decimal degrees)	Longitude (decimal degrees)	River name	Location	Period of record	Number of days with daily mean flow data	Drainage area (mi ²)
11	01119320	41.9343	-72.2609	Roaring Brook	Near Stafford Springs, CT	1961–1966	1,887	14.6
57	01186400	41.9784	-73.0451	Sandy Brook	State Highway 8 at Robertsville, CT	1967–1976	3,292	34.9
62	01187680	41.8723	-72.9062	Cherry Brook	Near Canton Center, CT	1966–1971	1,826	8.23
69	01189180	41.8745	-72.8612	Hop Brook	West Simsbury, CT	1966–1971	1,826	1.38
74	01190055	41.8215	-72.5881	Podunk River	Near South Windsor, CT	1975–1979	1,422	11.9
101	01195117	41.3854	-72.6126	Hammonasset River	Near Madison, CT	1974–1977	1,240	18.1
102	01195146	41.3826	-72.5890	Pond Meadow Brook	Near Killingworth, CT	1984–1993	3,287	5.92
111	01198800	41.9487	-73.3212	Hollenbeck River	Huntsville, CT	1970–1974	1,461	18.1
112	01198860	41.9645	-73.3015	Deming Brook	Near Huntsville, CT	1970–1975	1,602	1.08
113	01198870	41.9673	-73.3068	Ledgy Brook	Near Huntsville, CT	1970–1974	1,461	0.66
128	01203805	41.5576	-73.2151	Weekeepeemee River	Hotchkissville, CT	1978–1979, 2000–2005	1,495	26.8
146	01208999	41.2932	-73.3676	Little River	Sanfordtown, CT	1965–1968	1,310	5.5

Table 6. Descriptions of partial-record sites in Connecticut used in correlation of daily mean base flows to estimate flow duration, low-flow frequency, and August median statistics.[USGS, U.S. Geological Survey; mi², square miles]

Map reference number (fig. 2)	USGS station number	Latitude (decimal degrees)	Longitude (decimal degrees)	River name	Location	Period of record	Number of base-flow measurements	Drainage area (mi ²)
8	01118350	41.4548	-71.8140	Green Fall River	Clarks Falls, CT	1960–1973	24	19.8
9	01118750	41.3890	-71.9859	Haleys Brook	Near Old Mystic, CT	1962–1978	33	4.37
10	01119255	42.0232	-72.2476	Delphi Brook	Near Staffordville, CT	1962–1975	29	2.59
12	01119360	41.8715	-72.2915	Conat Brook	Willington, CT	1963–1978	30	2.40
15	01120200	41.7070	-72.2473	Tenmile River	Near Willimantic, CT	1962–1973	23	16.3
17	01120700	41.8793	-72.0998	Bigelow Brook	Phoenixville, CT	1960–1973	18	22.0
18	01120920	41.9201	-72.1792	Mount Hope River	Westford, CT	1962–1973	21	3.16
20	01121300	41.8723	-72.2415	Fenton River	East Willington, CT	1960–1975	32	11.4
21	01121350	41.8145	-72.2254	Fenton River	Gurleyville, CT	1962–1973	20	24.0
27	01125300	41.9909	-71.9970	English Neighborhood Brook	Near Woodstock, CT	1961–1978	36	4.66
30	01125600	41.8743	-72.0092	Mashamoquet Brook	Abington, CT	1961–1975	39	11.1
31	01125900	41.9090	-71.8192	Cady Brook	East Putnam, CT	1961–1979	28	8.29
36	01126700	41.4050	-71.5842	Kitt Brook	Near Canterbury, CT	1961–1975	24	11.1
39	01127100	41.5540	-71.9704	Broad Brook	Near Preston City, CT	1960–1965, 1967–1975	20	12.5
40	01127400	41.5709	-72.1331	Susquetonscut Brook	Yantic, CT	1960–1975	30	15.7
42	01127700	41.5009	-72.1159	Trading Cove Brook	Near Thamesville, CT	1960–1973	29	8.46
43	01127790	41.2200	-72.1218	Latmier Brook	East Lyme, CT	1962–1973	15	18.5
44	01127800	41.3570	-72.2606	Fourmile River	Near East Lyme, CT	1960–1979	38	4.30
49	01183990	42.0068	-72.5534	Jawbuck Brook	Near Hazardville, CT	1963–1976	24	2.16
52	01184300	41.9918	-72.4343	Gillette Brook	Somers, CT	1960–1980	56	3.64
82	01191900	41.9062	-72.4037	Charter Brook	Near Crystal Lake, CT	1960–1978	35	8.51
87	01192800	41.4523	-72.7018	Parmalee Brook	Near Durham, CT	1960–1978	28	2.79
90	01193120	41.4793	-72.5573	Ponset Brook	Near Higganum, CT	1962–1977	28	5.72
91	01193130	41.4740	-72.5965	Candlewood Hill Brook	Near Higganum, CT	1960–1973	24	3.84
92	01193210	41.6395	-72.3426	Raymond Brook	Near Amston, CT	1960–1964, 1967–1973	19	3.52
93	01193300	41.6962	-72.4556	Blackledge River	Near Gilead, CT	1960–1975, 1978	27	6.75
95	01193600	41.5551	-72.4523	Flat Brook	Near East Hampton, CT	1960–1964, 1967–1973	21	2.31
107	01196600	41.4598	-72.9179	Willow Brook	Near Cheshire, CT	1986–2005	73	9.34
110	01198700	41.5535	-73.1649	Brown Brook	Lower City, CT	1960–1968	24	5.56
121	01201890	41.4562	-73.3348	Pond Brook	Near Hawleyville, CT	1962–1975	28	11.9
123	01202700	41.7432	-73.2201	Butternut Brook	Near Litchfield, CT	1960–1979	37	2.42
125	01203100	41.5276	-73.3085	Jacks Brook	Near Roxbury Falls, CT	1960–1975, 1978	34	7.90
127	01203700	41.6273	-73.2257	Wood Creek	Near Bethlehem, CT	1960–1966, 1968–1979	31	3.39
142	01208900	41.2879	-73.2921	Patterson Brook	Near Easton, CT	1960–1978	33	1.21

Table 7. Basin characteristics for the index stations, short-term stations, and partial-record sites.

[Geologic characteristics for basins in Connecticut derived from Stone and others (1992) and geologic characteristics for basins outside of Connecticut derived from Soller and Parkard (1998). Station type, I (RI), index station in Rhode Island; I (CT), index station in Connecticut; I (MA), index station in Massachusetts; P, partial-record site; S, short-term station; USGS, U.S. Geological Survey; mi², square miles; ft, feet; **bold** indicates Index Station]

Map refer- ence number (fig. 2)	USGS station number	Station type	River name	Drain- age area (mi ²)	DEM drainage area (mi ²)	Glacial till (per- cent)	Thick glacial till ¹ (per- cent)	Coarse deposits (sand and gravel) (percent)	Fines (per- cent)	Al- luvium (per- cent)	Fines overlying sand and gravel (percent)	Water (per- cent)	Swamp (per- cent)	Mean basin eleva- tion (ft)	Mini- mum basin eleva- tion (ft)	Maxi- mum basin eleva- tion (ft)
1	01111300	I (RI)	Nipmuc River	16.3	16.32	88.4	0.0	11.6	0.0	0.0	0.0	0.0	0.0	532	344	770
2	01115100	I (RI)	Branch River	2.8	2.80	74.4	0.0	25.6	0.0	0.0	0.0	0.0	0.0	493	356	704
3	01115630	I (RI)	Nooseneck River	8.39	8.39	57.3	0.0	42.7	0.0	0.0	0.0	0.0	0.0	454	283	635
4	01115770	I (RI)	Carr River	7.3	7.30	48.1	0.0	51.9	0.0	0.0	0.0	0.0	0.0	327	254	492
5	01117468	I (RI)	Beaver River	9.78	9.78	73.2	0.0	26.8	0.0	0.0	0.0	0.0	0.0	314	114	563
6	01117800	I (RI)	Wood River	35.3	35.31	59.8	6.0	30.9	0.0	0.0	0.0	0.4	2.9	389	123	683
7	01118300	I (CT)	Pendleton Brook	4.02	4.00	81.3	1.5	10.9	0.0	1.5	0.0	0.0	4.8	339	156	530
8	01118350	P	Green Fall River	19.8	19.25	79.6	4.6	10.7	0.0	0.5	0.0	1.5	3.2	271	69	527
9	01118750	P	Haileys Brook	4.37	4.41	77.8	8.9	8.9	0.0	1.2	0.0	0.0	3.3	239	96	350
10	01119255	P	Delphi Brook	2.59	2.57	88.2	11.8	0.0	0.0	0.0	0.0	0.0	0.0	1,005	771	1,204
11	01119320	S	Roaring Brook	14.6	15.13	93.0	1.6	0.0	0.0	1.6	0.0	2.0	1.6	908	596	1,304
12	01119360	P	Conat Brook	2.40	2.13	78.5	2.2	17.0	0.0	0.0	0.0	0.0	2.2	652	510	955
15	01120200	P	Temmile River	16.3	16.29	79.0	11.3	3.8	0.6	1.8	0.0	0.9	2.6	493	242	727
16	01120500	I (CT)	Safford Brook	4.15	4.17	46.9	53.1	0.0	0.0	0.0	0.0	0.0	0.0	747	535	934
17	01120700	P	Bigelow Brook	22.0	26.90	82.4	5.2	6.0	0.0	2.5	0.0	3.0	0.9	799	447	1,294
18	01120920	P	Mount Hope River	3.16	3.44	71.3	12.2	5.4	0.0	0.0	0.0	8.2	2.8	914	672	1,253
19	01121000	I (CT)	Mount Hope River	28.6	29.00	77.8	14.9	3.4	0.0	0.7	0.0	1.7	1.5	617	320	965
20	01121300	P	Fenton River	11.4	10.93	82.9	9.4	3.8	0.0	0.7	0.0	1.4	1.7	768	440	1,204
21	01121350	P	Fenton River	24.0	24.24	80.9	9.1	6.6	0.0	1.0	0.0	0.6	1.9	566	274	958
24	01123000	I (CT)	Little River	30.0	30.06	71.8	6.4	15.8	0.0	2.3	0.0	1.6	2.1	508	236	793
27	01125300	P	English Neighborhood Brook	4.66	4.46	57.6	35.9	1.1	0.0	0.0	0.0	1.1	4.2	674	385	879
28	01125490	I (CT)	Little River	35.8	36.11	52.9	28.5	12.3	0.0	2.1	1.2	1.6	1.4	528	270	939
30	01125600	P	Mashamoquet Brook	11.1	11.02	59.3	28.5	8.2	0.0	0.5	0.0	0.9	2.6	686	483	889
31	01125900	P	Cady Brook	8.29	8.29	92.6	1.0	6.3	0.0	0.0	0.0	0.1	0.0	647	419	836
33	01126200	I (RI)	Bucks Horn Brook	4.22	4.22	70.8	0.0	29.2	0.0	0.0	0.0	0.0	0.0	494	412	627
35	01126600	I (CT)	Blackwell Brook	17.0	17.11	61.6	26.1	4.7	1.5	0.0	2.5	0.0	3.6	478	141	771
36	01126700	P	Kitt Brook	11.1	10.66	50.6	24.0	21.3	0.0	0.0	0.0	0.5	3.6	389	173	662
37	01126950	I (CT)	Pachaug River	53.0	52.92	50.7	12.1	23.5	0.8	0.1	1.9	5.8	5.0	343	151	653
39	01127100	P	Broad Brook	12.5	12.30	70.0	13.4	13.8	0.0	0.0	0.0	0.0	2.7	290	117	533
40	01127400	P	Susquetoniscut Brook	15.7	15.27	60.8	18.0	15.1	0.0	1.6	0.0	0.0	4.4	368	113	671

Table 7. Basin characteristics for the index stations, short-term stations, and partial-record sites.—Continued

[Geologic characteristics for basins in Connecticut derived from Stone and others (1992) and geologic characteristics for basins outside of Connecticut derived from Soller and Parkard (1998). Station type, I (RI), index station in Rhode Island; I (CT), index station in Connecticut; I (MA), index station in Massachusetts; P, partial-record site; S, short-term station; USGS, U.S. Geological Survey; mi², square miles; ft., feet; **bold** indicates Index Station]

Map reference number (fig. 2)	USGS station number	Station type	River name	Drainage area (mi ²)	DEM drainage area (mi ²)	Glacial till (percent)	Thick glacial till (percent)	Coarse deposits (sand and gravel) (percent)	Fines (percent)	Al-luvium (percent)	Fines overlying sand and gravel (percent)	Water (percent)	Swamp (percent)	Mean basin elevation (ft)	Minimum basin elevation (ft)	Maximum basin elevation (ft)
42	01127700	P	Trading Cove Brook	8.46	8.91	77.2	5.7	9.8	0.0	0.6	2.2	1.1	3.3	295	49	518
43	01127790	P	Latimer Brook	18.5	17.43	75.1	6.5	12.7	0.0	1.7	0.0	3.0	1.1	278	27	605
44	01127800	P	Fourmile River	4.30	4.38	82.6	8.7	7.6	0.0	0.0	0.0	0.0	1.1	216	79	427
45	01171800	I (MA)	Bassett Brook	5.68	5.68	66.7	0.0	33.3	0.0	0.0	0.0	0.0	0.0	407	208	826
46	01175670	I (MA)	Sevenmile River	9.25	9.25	97.2	0.0	2.8	0.0	0.0	0.0	0.0	0.0	872	649	1,093
47	01180000	I (MA)	Skyles Brook	1.39	1.39	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,074	637	1,334
48	01181000	I (MA)	West Branch Westfield River	94.0	93.99	97.9	0.0	2.1	0.0	0.0	0.0	0.0	0.0	1,424	393	2,232
49	01183990	P	Jawbuck Brook	2.16	2.04	0.0	0.0	0.0	0.0	4.9	95.1	0.0	0.0	193	136	236
52	01184300	P	Gillette Brook	3.64	3.66	79.5	8.1	6.7	0.0	1.4	0.0	1.4	2.8	676	279	1,114
57	01186400	S	Sandy Brook	34.9	35.56	89.7	4.3	1.6	0.0	1.2	0.0	1.0	2.2	1,360	569	3,134
60	01187300	I (CT)	Hubbard River	19.9	20.66	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,286	595	1,644
61	01187400	I (CT)	Valley Brook	7.03	7.39	99.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1,099	544	1,490
62	01187680	S	Cherry Brook	8.23	8.14	80.8	15.3	0.0	0.0	3.9	0.0	0.0	0.0	896	441	1,209
63	01187800	I (CT)	Nepaug River	23.5	23.77	67.0	18.6	6.8	0.0	5.2	0.0	0.5	1.8	843	509	1,187
64	01187850	I (CT)	Clear Brook	0.59	0.56	55.4	0.0	44.6	0.0	0.0	0.0	0.0	0.0	733	531	930
66	01188000	I (CT)	Burlington Brook	4.10	3.99	31.1	40.6	25.2	0.0	3.0	0.0	0.0	0.0	925	736	1,170
69	01189180	S	Hop Brook	1.38	1.41	91.9	0.0	8.1	0.0	0.0	0.0	0.0	0.0	699	328	999
74	01190055	S	Podunk River	11.9	11.88	24.4	10.1	39.6	20.3	2.5	1.6	0.5	1.0	169	44	424
82	01191900	P	Charter Brook	8.51	8.47	75.0	13.9	7.8	0.0	1.6	0.0	0.0	1.6	722	544	1,050
84	01192600	I (CT)	South Branch Salmon Brook	0.94	0.95	35.2	0.0	64.8	0.0	0.0	0.0	0.0	0.0	457	239	753
87	01192800	P	Parnalee Brook	2.79	2.90	84.2	3.3	6.3	0.0	6.3	0.0	0.0	0.0	396	208	733
90	01193120	P	Ponset Brook	5.72	5.63	68.7	9.0	15.7	0.0	0.0	5.7	0.0	0.9	490	141	681
91	01193130	P	Candlewood Hill Brook	3.84	3.71	88.4	6.5	5.1	0.0	0.0	0.0	0.0	0.0	480	204	723
92	01193210	P	Raymond Brook	3.52	3.66	72.8	23.2	0.0	0.0	1.3	0.0	1.3	1.3	582	389	783
93	01193300	P	Blackledge River	6.75	6.78	78.8	14.1	5.6	0.0	0.0	0.0	0.7	0.7	657	476	897
94	01193500	I (CT)	Salmon Brook	100	101.64	75.0	10.9	7.8	0.1	2.1	0.8	1.3	1.9	472	61	897
95	01193600	P	Flat Brook	2.31	2.43	81.5	18.5	0.0	0.0	0.0	0.0	0.0	0.0	402	103	612
96	01193800	I (CT)	Hemlock Valley Brook	2.62	2.79	78.9	11.7	7.2	0.0	2.3	0.0	0.0	0.0	353	73	628
97	01194000	I (CT)	Eightmile River	20.1	20.20	88.2	0.6	7.1	0.0	1.0	0.0	1.9	1.3	407	38	638
98	01194500	I (CT)	East Branch Eightmile River	22.3	22.45	82.8	7.1	6.5	0.0	2.2	0.0	1.1	0.3	365	71	644

Table 7. Basin characteristics for the index stations, short-term stations, and partial-record sites.—Continued

[Geologic characteristics for basins in Connecticut derived from Stone and others (1992) and geologic characteristics for basins outside of Connecticut derived from Soller and Parkard (1998). Station type, I (RI), index station in Rhode Island; I (CT), index station in Connecticut; I (MA), index station in Massachusetts; P, partial-record site; S, short-term station; USGS, U.S. Geological Survey; mi², square miles; ft, feet; **bold** indicates Index Station]

Map refer- ence number (fig. 2)	USGS station number	Station type	River name	Drain- age area (mi ²)	DEM drainage area (mi ²)	Glacial till (per- cent)	Thick glacial till ¹ (per- cent)	Coarse deposits (sand and gravel) (percent)	Fines (per- cent)	Al- luvium (per- cent)	Fines overlying sand and gravel (percent)	Water (per- cent)	Swamp (per- cent)	Mean basin eleva- tion (ft)	Mini- mum basin eleva- tion (ft)	Maxi- mum basin eleva- tion (ft)
100	01195100	I (CT)	Indian River	5.68	5.73	77.9	11.2	8.7	0.0	0.0	0.0	0.0	2.1	236	47	495
101	01195117	S	Hammonasset River	18.1	18.30	86.2	1.4	8.1	0.0	0.0	0.0	0.3	4.0	427	248	715
102	01195146	S	Pond Meadow Brook	5.92	6.24	73.6	15.2	7.0	0.0	0.0	0.0	1.0	3.1	488	308	662
103	01195200	I (CT)	Neck River	6.55	6.59	64.8	10.8	21.6	0.0	1.0	0.0	0.0	1.9	167	5	420
107	01196600	P	Willow Brook	9.34	9.40	57.8	0.0	38.7	0.0	0.0	0.0	0.0	3.5	346	113	873
110	01198700	P	Brown Brook	5.56	5.55	93.0	0.0	2.6	0.0	0.0	0.0	1.8	2.6	1,412	771	1,746
111	01198800	S	Hollenbeck River	18.1	19.02	86.7	3.6	3.9	0.0	3.6	0.0	0.6	1.6	1,188	658	1,747
112	01198860	S	Deming Brook	1.08	1.10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,498	797	1,960
113	01198870	S	Ledgy Brook	0.66	0.70	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,494	773	1,949
116	01199200	I (CT)	Guinea Brook	3.5	3.48	96.5	0.0	1.8	0.0	0.0	0.0	0.0	1.8	1,292	1,141	1,550
119	01201190	I (CT)	West Aspetuck River	23.8	23.85	81.1	7.6	2.6	3.6	1.6	0.0	1.6	1.8	786	268	1,417
121	01201890	P	Pond Brook	11.9	11.86	64.6	19.9	9.5	0.0	2.0	0.0	2.0	2.0	513	248	825
122	01201930	I (CT)	Marshpaug River	9.24	9.50	56.1	28.1	0.6	0.0	2.0	0.0	9.9	3.3	1,337	1,085	1,634
123	01202700	P	Butternut Brook	2.42	2.43	55.9	37.8	2.1	0.0	4.2	0.0	0.0	0.0	1,122	914	1,290
125	01203100	P	Jacks Brook	7.90	7.82	75.0	18.2	3.7	0.0	0.6	0.0	0.0	2.4	686	291	1,044
127	01203700	P	Wood Creek	3.39	3.40	71.2	20.5	2.9	0.0	1.4	0.0	0.0	4.0	905	559	1,133
128	01203805	S	Weekpeepee River	26.8	27.06	81.2	12.0	3.2	0.0	2.7	0.0	0.2	0.7	741	236	1,138
130	01204800	I (CT)	Copper Mill Brook	2.45	2.45	41.0	41.0	13.0	0.0	0.0	0.0	0.0	5.0	490	336	663
135	01206400	I (CT)	Leadmine Brook	19.6	19.76	57.9	33.5	4.0	0.0	1.0	0.0	0.9	2.7	900	535	1,187
135	01206500	I (CT)	Leadmine Brook	24.3	24.44	61.2	30.2	4.5	0.0	0.5	0.0	1.3	2.3	760	492	1,105
142	01208900	P	Patterson Brook	1.21	1.20	72.6	8.1	4.0	0.0	0.0	0.0	0.0	15.3	430	358	528
144	01208950	I (CT)	Sasco Brook	7.38	7.43	59.7	37.9	1.6	0.0	0.8	0.0	0.0	0.0	230	60	398
145	01208990	I (CT)	Saugatuck River	21.0	20.67	79.0	4.2	10.5	0.0	1.2	0.0	1.2	3.9	574	298	1,002
146	01208999	S	Little River	5.5	5.52	73.3	23.4	2.2	0.0	0.0	0.0	1.1	0.0	632	376	851

¹ Thick glacial till is defined as greater than 10-ft thick.

Table 8. Summary of low-flow correlation coefficients at short-term stations and partial-record sites in Connecticut.[Index Station used in MOVE.3 equation shown in **bold**; USGS, U.S. Geological Survey; number in parentheses is map reference number on figure 2]

USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient	USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient
Low-flow partial-record stations				Low-flow partial-record stations—Continued			
01118350 (8)	01118300 (7)	24	0.91	01121300 (20)	01118300 (7)	29	0.90
	01120500 (16)	24	0.90		01120500 (16)	29	0.90
	01121000 (19)	24	0.87		01121000 (19)	29	0.97
	01123000 (24)	24	0.88	01121350 (21)	01123000 (24)	29	0.93
	01115630 (3)	16	0.87		01118300 (7)	20	0.70
	01115770 (4)	16	0.87		01120500 (16)	20	0.75
	01117800 (6)	16	0.91		01121000 (19)	20	0.78
01118750 (9)	01118300 (7)	22	0.95		01123000 (24)	20	0.80
	01123000 (24)	22	0.73		01193800 (96)	20	0.75
	01194500 (98)	22	0.72		01194500 (98)	20	0.73
	01115630 (3)	16	0.66	01125300 (27)	01120500 (16)	29	0.92
	01115770 (4)	16	0.57		01121000 (19)	29	0.92
01119255 (10)	01118300 (7)	23	0.82		01123000 (24)	29	0.85
	01120500 (16)	23	0.90		01187800 (63)	29	0.90
	01121000 (19)	23	0.94		01195200 (103)	29	0.86
	01126600 (35)	20	0.90	01125600 (30)	01120500 (16)	26	0.94
	01192600 (84)	23	0.58		01121000 (19)	26	0.95
	01193800 (96)	23	0.92		01123000 (24)	26	0.91
	01171800 (45)	20	0.91		01194500 (98)	26	0.91
01119360 (12)	01118300 (7)	24	0.73		01195200 (103)	26	0.90
	01120500 (16)	24	0.75	01125900 (31)	01118300 (7)	20	0.86
	01188000 (66)	24	0.77		01120500 (16)	20	0.89
	01192600 (84)	24	0.54		01121000 (19)	20	0.89
	01193800 (96)	24	0.88		01123000 (24)	20	0.76
01120200 (15)	01118300 (7)	23	0.83		01111300 (1)	15	0.84
	01120500 (16)	23	0.78	01126700 (36)	01118300 (7)	22	0.92
	01121000 (19)	23	0.93		01120500 (16)	22	0.86
	01126600 (35)	13	0.96		01121000 (19)	22	0.97
	01123000 (24)	23	0.95		01123000 (24)	22	0.96
	01193800 (96)	23	0.92		01194500 (98)	22	0.97
	01194000 (97)	15	0.96		01115630 (3)	15	0.96
01120700 (17)	01111300 (1)	10	0.85		01115770 (4)	15	0.92
	01120500 (16)	18	0.60	01127100 (39)	01117800 (6)	15	0.96
	01121000 (19)	18	0.87		01115630 (3)	12	0.97
	01123000 (24)	18	0.84		01115770 (4)	12	0.90
	01125490 (28)	16	0.85		01118300 (7)	19	0.91
	01126600 (35)	10	0.82		01120500 (16)	19	0.84
	01194500 (98)	18	0.72		01121000 (19)	19	0.87
01120920 (18)	01121000 (19)	21	0.98		01123000 (24)	19	0.79
					01194500 (98)	19	0.88

Table 8. Summary of low-flow correlation coefficients at short-term stations and partial-record sites in Connecticut.—Continued[Index Station used in MOVE.3 equation shown in **bold**; USGS, U.S. Geological Survey; number in parentheses is map reference number on figure 2]

USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient	USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient
Low-flow partial-record stations—Continued				Low-flow partial-record stations—Continued			
01127400 (40)	01118300 (7)	24	0.85	01192800 (87)	01118300 (7)	23	0.84
	01120500 (16)	24	0.80		01120500 (16)	23	0.74
	01121000 (19)	24	0.91		01193800 (96)	21	0.88
	01123000 (24)	24	0.96		01195200 (103)	20	0.85
	01194500 (98)	24	0.96		01204800 (130)	21	0.87
01127700 (42)	01118300 (7)	25	0.81	01193120 (90)	01118300 (7)	24	0.96
	01120500 (16)	25	0.85		01120500 (16)	24	0.88
	01121000 (19)	25	0.85		01193800 (96)	23	0.95
	01123000 (24)	25	0.87		01194000 (97)	14	0.97
	01194500 (98)	25	0.85		01194500 (98)	24	0.97
01127790 (43)	01118300 (7)	14	0.44	01193130 (91)	01118300 (7)	24	0.94
	01121000 (19)	14	0.62		01120500 (16)	24	0.90
	01123000 (24)	14	0.73		01193800 (96)	24	0.84
	01193500 (94)	14	0.59		01194000 (97)	18	0.95
	01193800 (96)	14	0.80		01194500 (98)	24	0.92
	01194500 (98)	14	0.54		01195200 (103)	21	0.93
	01195200 (103)	14	0.68		01204800 (130)	24	0.84
01127800 (44)	01118300 (7)	30	0.86	01193210 (92)	01118300 (7)	19	0.89
	01194000 (97)	17	0.92		01120500 (16)	19	0.88
	01194500 (98)	30	0.91		01121000 (19)	19	0.89
	01195200 (103)	27	0.86		01123000 (24)	19	0.90
01183990 (49)	01120500 (16)	24	0.79		01126600 (35)	9	0.70
	01187400 (61)	24	0.77	01193300 (93)	01193800 (96)	19	0.88
	01192600 (84)	24	0.85		01195200 (103)	16	0.91
	01171800 (45)	22	0.91		01118300 (7)	19	0.86
	01175670 (46)	24	0.86		01120500 (16)	19	0.77
01184300 (52)	01120500 (16)	39	0.88		01121000 (19)	19	0.87
	01171800 (45)	39	0.65	01193600 (95)	01123000 (24)	19	0.81
	01175670 (46)	39	0.86		01193800 (96)	19	0.85
	01187300 (60)	39	0.77		01194000 (97)	11	0.89
	01180000 (47)	39	0.74		01194500 (98)	19	0.83
	01188000 (66)	39	0.83		01195200 (103)	16	0.86
01191900 (82)	01120500 (16)	31	0.86		01118300 (7)	21	0.83
	01121000 (19)	31	0.84		01121000 (19)	21	0.89
	01123000 (24)	31	0.89		01193800 (96)	21	0.93
	01187300 (60)	31	0.81		01194000 (97)	13	0.93
	01188000 (66)	31	0.88		01195200 (103)	18	0.88
	01194500 (98)	31	0.84				

Table 8. Summary of low-flow correlation coefficients at short-term stations and partial-record sites in Connecticut.—Continued[Index Station used in MOVE.3 equation shown in **bold**; USGS, U.S. Geological Survey; number in parentheses is map reference number on figure 2]

USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient	USGS station number (map reference number)	Nearby index stations used in relation (map reference number)	Number of streamflow measurements or daily mean streamflows used in relation	Correlation coefficient
Low-flow partial-record stations—Continued				Short-term continuous stations—Continued			
01196600 (107)	01195100 (100)	48	0.77	01187680 (62)	01187300 (60)	22	0.72
	01208950 (144)	48	0.80		01187400 (61)	22	0.81
	01208990 (145)	48	0.84		01187800 (63)	22	0.90
01198700 (110)	01187300 (60)	22	0.89		01188000 (66)	22	0.82
		22	0.88	01189180 (69)	01206400 (135)	22	0.89
		22	0.90		01187850 (64)	24	0.43
		22	0.82		01188000 (66)	24	0.70
	01199200 (116)	22	0.92		01192600 (84)	24	0.32
01201890 (121)	01206400 (135)	22	0.92		01199200 (116)	24	0.67
	01188000 (66)	23	0.88	01190055 (74)	01118300 (7)	23	0.47
	01199200 (116)	23	0.85		01120500 (16)	23	0.22
	01201190 (119)	23	0.89		01121000 (19)	23	0.54
	01204800 (130)	23	0.93		01126600 (35)	14	0.65
	01208990 (145)	13	0.97		01123000 (24)	23	0.63
01202700 (123)	01187300 (60)	23	0.82		01187300 (60)	23	0.73
	01188000 (66)	23	0.86	01195117 (101)	01195200 (103)	23	0.42
	01199200 (116)	23	0.91		01193800 (96)	13	0.75
	01204800 (130)	21	0.80		01194500 (98)	13	0.88
	01206400 (135)	18	0.84	01195146 (102)	01118300 (7)	35	0.70
01203100 (125)	01187300 (60)	28	0.88		01195100 (100)	35	0.86
	01188000 (66)	28	0.85	01198800 (111)	01187300 (60)	23	0.79
	01201190 (119)	14	0.93		01201190 (119)	11	0.95
	01204800 (130)	26	0.89		01201930 (122)	23	0.68
	01208990 (145)	17	0.93		01206400 (135)	17	0.45
01203700 (127)	01187300 (60)	26	0.80	01208990 (145)	01208990 (145)	23	0.80
	01188000 (66)	26	0.90		01198860 (112) No index stations for correlation		
	01199200 (116)	26	0.85		01198870 (113) No index stations for correlation		
	01204800 (130)	24	0.81	01203805 (128)	01187300 (60)	27	0.67
01208900 (142)	0195200 (103)	24	0.75		01188000 (66)	27	0.66
	01204800 (130)	24	0.67		01208950 (144)	27	0.60
	01208950 (144)	16	0.59		01208990 (145)	27	0.65
Short-term continuous stations				01208999 (145)	01188000 (66)	26	0.92
01119320 (11)	01118300 (7)	35	0.85		01204800 (130)	26	0.87
	01120500 (16)	35	0.78		01208950 (144)	26	0.83
	01121000 (19)	35	0.87		01208990 (145)	26	0.89
	01123000 (24)	35	0.84				
01186400 (57)	01187300 (60)	53	0.96				

Table 9. Low-flow statistics derived using the MOVE.3 method for short-term streamgaging stations and partial-record sites in Connecticut.—Continued[USGS, U.S. Geological Survey; ft³/s, cubic feet per second; --, not computed]

Map reference number (fig. 2)	USGS short-term station number	River name	Low-flow frequency, in ft³/s			Flow durations, in ft³/s						August median flow, in ft³/s	Cor- relation coeffi- cient	Index station used in relation
			7-day, 10-year	7-day, 2-year	30-day, 2-year	Streamflow, in ft³/s								
						99	98	97	95	90	85			
11	01119320	Roaring Brook	0.39	1.01	1.88	0.47	0.65	0.84	1.13	1.93	2.90	2.59	0.87	01121000
57	01186400	Sandy Brook	2.69	4.98	7.25	2.99	3.84	4.53	5.49	7.34	9.10	8.43	0.92	01187300
62	01187680	Cherry Brook	0.02	0.08	0.23	0.03	0.05	0.07	0.10	0.23	0.48	0.40	0.89	01206400
69	01189180	Hop Brook	--	--	--	--	--	--	--	--	--	--	≤ 0.80	--
74	01190055	Podunk River	--	--	--	--	--	--	--	--	--	--	≤ 0.80	--
101	01195117	Hammonasset River	0.00	0.03	0.13	0.00	0.01	0.02	0.04	0.24	0.67	0.49	0.88	01194500
102	01195146	Pond Meadow Brook	0.01	0.09	0.24	0.02	0.04	0.07	0.12	0.27	0.49	0.50	0.86	01195100
111	01198800	Hollenbeck River	1.02	1.83	2.66	1.21	1.55	1.84	2.37	3.05	3.84	3.68	0.95	01201190
112	01198860	Deming Brook	--	--	--	--	--	--	--	--	--	--	≤ 0.80	--
113	01198870	Ledgy Brook	--	--	--	--	--	--	--	--	--	--	≤ 0.80	--
128	01203805	Weekeepemee River	--	--	--	--	--	--	--	--	--	--	≤ 0.80	--
146	01208999	Little River	0.02	0.15	0.39	0.04	0.07	0.11	0.17	0.38	0.63	0.69	0.83	01208950

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