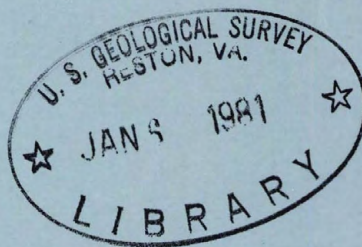


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Water Resources Data for Massachusetts and Rhode Island Water Year 1975



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MA-RI-75-1

Prepared in cooperation with the States of Massachusetts
and Rhode Island and with other agencies

CALENDAR FOR WATER YEAR 1975

1974

OCTOBER

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1975

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Water Resources Data for Massachusetts and Rhode Island Water Year 1975



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**Prepared in cooperation with the States of Massachusetts
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PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the States of Massachusetts and Rhode Island and other agencies, by personnel of the New England District of the Water Resources Division under the supervision of J. A. Baker, District Chief, and J. T. Callahan, Regional Hydrologist, Northeast Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with

Massachusetts Water Resources Commission
Massachusetts Department of Public Works
Massachusetts Metropolitan District Commission
Rhode Island Department of Natural Resources
Rhode Island Water Resources Board
Corps of Engineers, U.S. Army
City of Providence, Department of Public Works

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150 Causeway Street
Boston, MA 02114

1976

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FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data:

(d), discharge; (l), lake; (c) chemical; (b), biological; (t), water temperature)

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INTRODUCTION

Water-resources data for the 1975 water year for Massachusetts and Rhode Island consist of records of stage, discharge, and water quality of streams; contents of lakes and reservoirs; and water levels and water quality of wells. This report contains discharge records for 111 gaging stations, monthend contents for 15 lakes and reservoirs, water quality for 24 gaging stations and 14 wells, and water levels for 44 observation wells. Also included are data for 10 low-flow partial-record stations and 22 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. Locations of gaging and water-quality stations, partial-record stations, and observation wells are shown in figures 1, 2, and 3, respectively. A few pertinent stations (not included above) in bordering States are also included in this report. These data represent that portion of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts and Rhode Island.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1939 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State- or District-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State- or District-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water-year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report MA-RI-75-1." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

COOPERATION

The U.S. Geological Survey and organizations of the States of Massachusetts and Rhode Island have had cooperative agreements for the systematic collection of streamflow records since 1909 and 1941, respectively; and for water-quality records since 1954. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

Massachusetts: State Water Resources Commission, Bette Woody and David B. Standley, co-chairmen, C. F. Kennedy, director and chief engineer of Division of Water Resources, and T. C. McMahon, director of Division of Water Pollution Control; State Department of Public Works, John J. Carroll, commissioner, F. W. Holden, research and materials engineer, and Robert T. Tierney, chief engineer of Division of Highways; Metropolitan District Commission, John F. Snedeker, commissioner, James J. Matera, director of Water Division and chief water-supply engineer, and F. T. Bergin, chief engineer of Construction Division.

Rhode Island: State Department of Natural Resources, Dennis J. Murphy, director, C. B. Dunwoody, chief of Division of Planning and Development; State Water Resources Board, A. A. DiMartino, chairman, city of Providence, Department of Public Works, L. P. McGarry, director.

Assistance in collecting records was furnished by the New England Power Company, and other organizations supplying data are acknowledged in the station descriptions.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System (SI) Units on page 15.

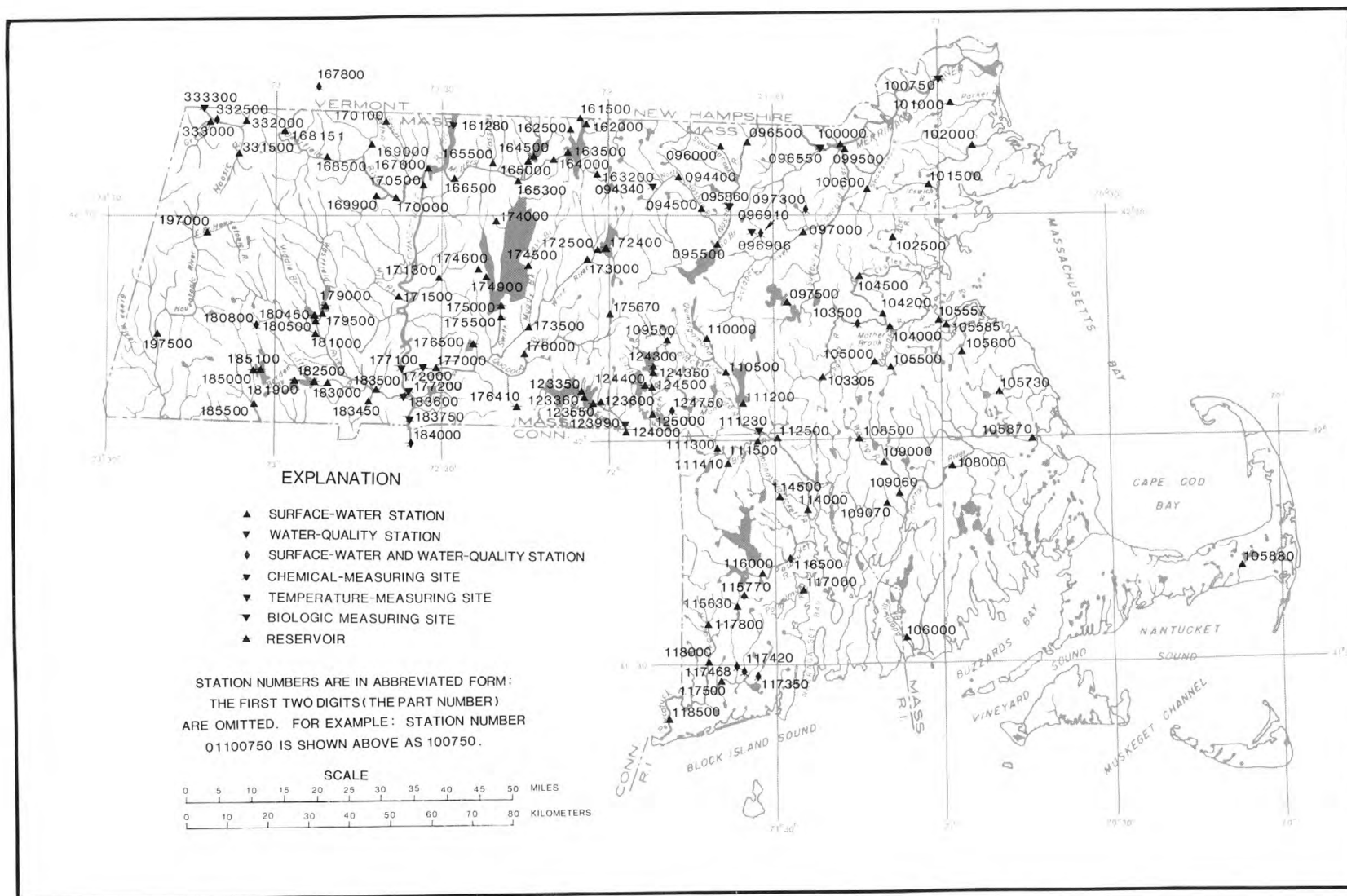


FIGURE 1. LOCATION OF SURFACE-WATER STATIONS

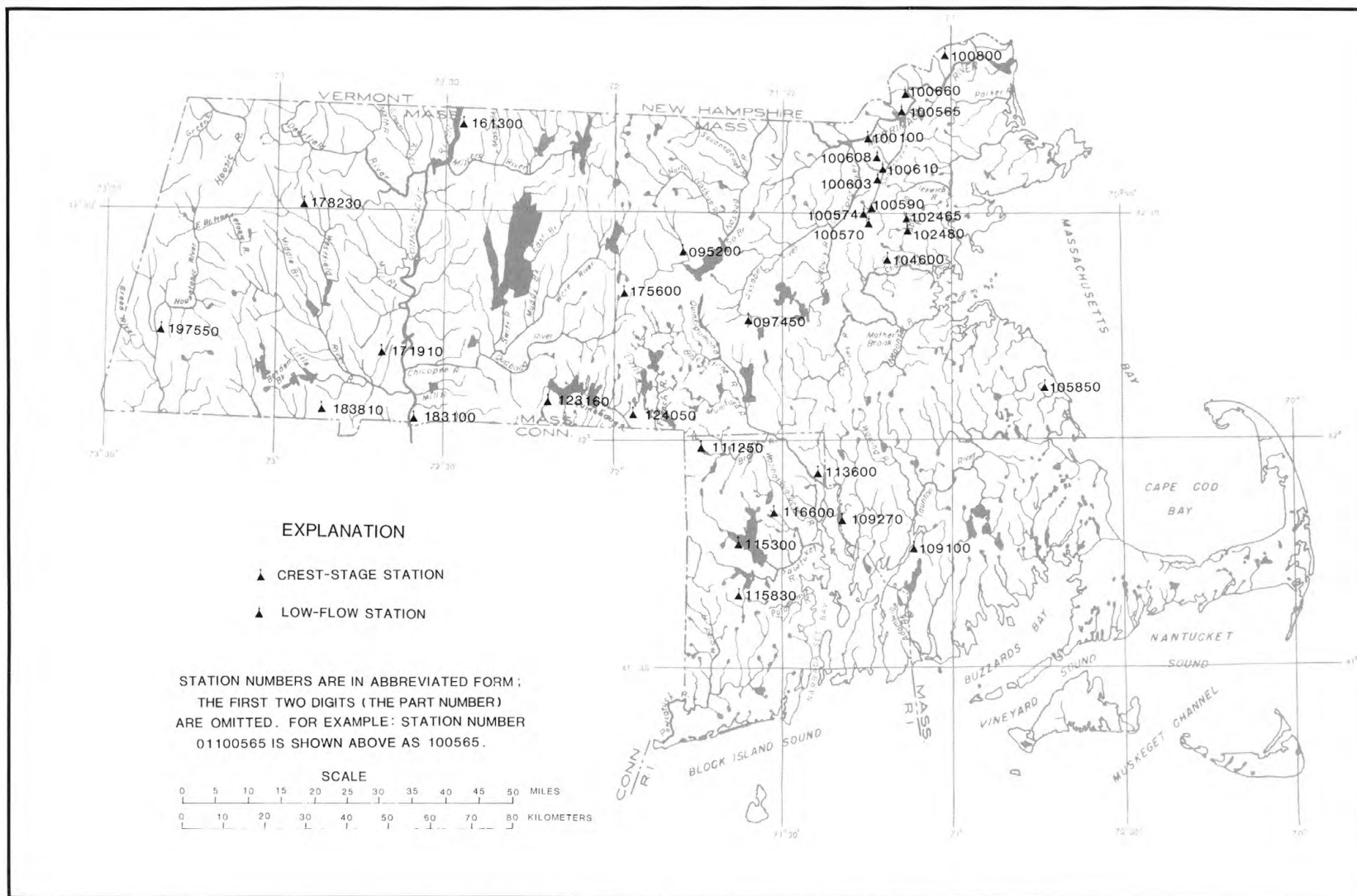


FIGURE 2. LOCATION OF PARTIAL-RECORD STATIONS

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, or about 326,000 gallons, or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells or springs.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. These bacteria are defined as all organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C $\pm$ 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 ml (milliliters) of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of water. These bacteria are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C $\pm$ 0.2°C on M-FC medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. These bacteria are defined as all organisms which produce red or pink colonies within 48 hours at 35°C $\pm$ 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 ml of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, used for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry-weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash-weight values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and the ash-weight values of periphyton and benthic organisms are expressed in g/m² (grams per square meter).

Biomass pigment ratio is the ratio of organic weight in mg/m² (milligrams per square meter) to the weight of chlorophyll a, mg/m².

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash, and sediment in the sample. Dry-weight values are expressed in the same units as ash weight.

Cfs/day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, about 646,000 gallons, approximately 1.9835 acre-feet, or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Chlorophyll refers to the green pigment of plants. Chlorophyll a and b are the most common green pigments in plants.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of water. The number of coliform colonies per 100 ml of sample is determined by the immediate-incubation membrane-filter method.

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by one milligram per liter of platinum in the form of the chloroplatinate ion.

The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved solids content.

Contents is the volume of water in a reservoir, lake, stream, or aquifer. Contents herein is that of a reservoir or lake and, unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Continuing Record Station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken once or more times daily.
3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.2832 cubic meters per second.

Curie is a unit for measuring radioactivity. One curie equals that quantity of any radioactive isotope undergoing 3.7×10^{10} disintegration per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter, and, thus, may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Dissolved oxygen (DO). The dissolved-oxygen content of water in equilibrium with air is a function of atmospheric pressure, dissolved-solids content, and temperature of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids content. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen content in water from streams.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane and enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G. H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a designated site on a stream, canal, lake, or reservoir where systematic observations are made of the physical and (or) chemical and biological character of the water. The scope and frequency of data collected at a gaging station varies. This variation is reflected by the terminology used in further identifying the type of gaging station as follows:

Stream-gaging station is a gaging station at which a continuous record of discharge is generally computed. Water-quality data collected at a stream-gaging station may vary from only a temperature observation with each discharge measurement to continuous monitoring of one or more parameters. However, monthly and annual means and loads for dissolved constituents are not usually computed from less than daily samples.

Partial-record station is a gaging station where limited streamflow and (or) water-quality data are collected systematically over a period of years for use in hydrologic analyses of low-flow, peak-flow, and (or) general-runoff characteristics. Partial-record stations are further categorized as follows:

Crest-stage partial-record station is a gaging station at which only the annual peak stage and (or) discharge is obtained. Water-quality data are not usually collected at this type of gaging station.

Low-flow partial-record station is a gaging station at which definition of the quantity and/or quality of the low flow (principally base flow) is sought. One or more discharge measurements and/or water-quality samples may be obtained annually.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Herbicides are substances or mixtures of substances intended to control or destroy vegetation.

Insecticides are substances or mixtures of substances intended to prevent, destroy, or repel insects.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, below. Concentration of suspended sediment also is expressed in mg/l and is based on the weight of sediment per liter of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter based on 1961 atomic weights

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})*	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

* Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, usually milliliters or liters.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters, acres, or hectares. Numbers of periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organisms count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (ml) or liters (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, the assemblage may include bacteria, fungi, protozoa, rotifer, and other small organisms.

Pesticides are chemical compounds used to control or destroy undesirable plants and animals. The major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide, almost 60,000 pesticide formulations have been registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to replace many of the chlorinated hydrocarbon pesticides with more specific, fast acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Picocurie (PC) is a unit for measuring radioactivity. One picocurie is equivalent to 1 trillionth of a curie. See Curie.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water flowing in a channel per unit of time.

Thermograph is a thermometer that continuously and automatically records on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analysis) refers to the amount of a substance that is present both in solution and in suspension.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published District annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in UG/L (micrograms per liter), radium as radium-226 in PC/L (picocuries per liter), gross beta radiation as equivalent strontium/yttrium-90 (SR90/Y90) or cesium-137 in PC/L and gross alpha radiation as micrograms of uranium equivalent per liter. Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

A picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. Downstream order station numbers are not assigned to wells and miscellaneous sites where only random discharge measurements are made. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same

number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01094400, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream-order number "094400." The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basins). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS

The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each well. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude; the next 7 digits denote the degrees, minutes, and seconds of longitude; and the last 2 digits is a sequential number for wells within a 1-second grid.

A local well-numbering system is used in this report. These numbers consist of the name of the city or town in which the well is located followed by a sequential number.

EXPLANATION OF SURFACE WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from a water-stage recorder that gives either a tape punched at 15-, 30-, or 60-minute intervals or a continuous graph of the fluctuations. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables; then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and gage observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by hydrologists and gage observers, and comparable records of discharge for other stations in the same or nearby basins.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily reservoir stages may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Tables of daily mean gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the inside of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, notations of revisions of previously published records, general remarks, average discharge, and extremes of discharge, contents, or stage. The

location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and to a recording rain gage at the gaging station is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, on the capacity, outlet works, and spillway, and on the purpose and use of the reservoir, is also given under "REMARKS." The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge, the maximum gage height, and the minimum discharge if there is little or no regulation are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge if it is abnormally low). In the paragraph under "EXTREMES," headed "Period of record," the data given are for the period of record given in the PERIOD OF RECORD paragraph. In the paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. Reliable information, when available, concerning major floods that occurred outside the period of record is given in a separate paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder (digital or graphic), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately.

Previously published records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN.").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MTN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes a significant high period. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for most stations are listed below the "Current year" paragraph under "EXTREMES." All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

Data collected at partial-record stations and miscellaneous sites are contained in three tables following the information for continuous record sites. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of Data

The accuracy of the discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, evaporation, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of the numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Massachusetts and Rhode Island for the period October 1960 to September 1965 are in Water-Supply Papers 1901 and 1902.

Two series of summary reports entitled "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for the stations in Massachusetts and Rhode Island through September 1950 are compiled in Water-Supply Papers 1301 and 1302, and for October 1950 to September 1960, in 1721 and 1722.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Information of a more detailed nature than that published for most gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water-quality data on chemical, physical, and biological characteristics of surface and ground water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals.

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations at which continuing records are collected. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, well number, depth of well, date of sampling, and other pertinent data are given in the table containing chemical analyses of ground water.

Water-quality data are presented for chemical, biological, and microbiological constituents, water temperature, and fluvial sediment. Chemical data include concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, pH, and radioactivity. Biological data include qualitative and quantitative analyses of phytoplankton and periphyton organisms. Microbiological data include quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent daily maximum, minimum, and mean temperature. Fluvial-sediment data are given for suspended-sediment discharges and concentrations.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm), and water temperatures were reported in degrees Fahrenheit ($^{\circ}\text{F}$). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/l) and water temperatures in degrees Celsius ($^{\circ}\text{C}$). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using table 2, p. 14.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per liter instead of milligrams per liter. (See "DEFINITION OF TERMS," p. 7, and table 3 for converting English Units to SI Units, p. 15).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown and others (1970). The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, and organic substances in water are described by Lamar and others (1965); Goerlitz and Lamar (1967); and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others (1973).

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of most discharge measurements for surface-water stations. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

EXPLANATION OF WATER QUALITY RECORDS

At stations where monitors are installed, the record consists of maximum, minimum, and mean temperature for each day.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	8.0	46	16.0	61	24.0	75	32.0	90
.5	33	8.5	47	16.5	62	24.5	76	32.5	90
1.0	34	9.0	48	17.0	63	25.0	77	33.0	91
1.5	35	9.5	49	17.5	63	25.5	78	33.5	92
2.0	36	10.0	50	18.0	64	26.0	79	34.0	93
2.5	36	10.5	51	18.5	65	26.5	80	34.5	94
3.0	37	11.0	52	19.0	66	27.0	81	35.0	95
3.5	38	11.5	53	19.5	67	27.5	81	35.5	96
4.0	39	12.0	54	20.0	68	28.0	82	36.0	97
4.5	40	12.5	54	20.5	69	28.5	83	36.5	98
5.0	41	13.0	55	21.0	70	29.0	84	37.0	99
5.5	42	13.5	56	21.5	71	29.5	85	37.5	99
6.0	43	14.0	57	22.0	72	30.0	86	38.0	100
6.5	44	14.5	58	22.5	72	30.5	87	38.5	101
7.0	45	15.0	59	23.0	73	31.0	88	39.0	102
7.5	45	15.5	60	23.5	74	31.5	89	39.5	103

Sediment

Suspended-sediment concentrations are determined periodically from samples collected by using depth-integrating samplers. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow when predicting long-term sediment-discharge characteristics of the stream.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Massachusetts and Rhode Island are listed below.

Water year	Water-Supply Paper number	Water year	Water-Supply Paper number	Water year	Water-Supply Paper number
1953	1290	1959	1641	1965	1961
1954	1350	1960	1741	1966	1991
1955	1400	1961	1881	1967	2011
1956	1450	1962	1941	1968	2091
1957	1520	1963	1947	1969	2141
1958	1571	1964	1954	1970	2151

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only ground-water-level data for a network of 43 observation wells within the states of Massachusetts and Rhode Island are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in the nation's most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. The altitude of the land-surface datum with reference to mean sea level and the height of the measuring point (MP) above or below the land-surface datum are given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Publications

Publication of ground-water level data for the United States in Water-Supply Papers was begun by the Geological Survey in 1935. The first report containing water-level data for Massachusetts was Water-Supply Paper 886 and for Rhode Island was Water-Supply Paper 1023. Water-level data for these states are in the water-supply papers listed below, each report containing data for 1 or more calendar years (January-December). Data in this report are for the 12-month water year ending September 30, 1975.

Calendar year	Water-Supply Paper number	Calendar year	Water-Supply Paper number	Calendar year	Water-Supply Paper number
1939	886	1947	1096	1955	1404
1940	906	1948	1126	1956-57	1537
1941	936	1949	1156	1958-62	1782
1942	944	1950	1165	1963-67	1977
1943	986	1951	1191	1968-72	2140
1944	1016	1952	1221	1973-74	(In preparation)
1945	1023	1953	1265		
1946	1071	1954	1321		

Information about reports and other data on ground water in Massachusetts and Rhode Island may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

HYDROLOGIC CONDITIONS

At the beginning of the water year, runoff was excessive (in the upper quartile of record) throughout Massachusetts and Rhode Island.

Cumulative runoff for October to March was excessive throughout Massachusetts and Rhode Island. The second highest January runoff for period of record occurred at the index gaging station, Branch River at Forestdale, R.I. (January 1940-). Spring peak discharges were moderate and only the usual lowland flooding was experienced.

Cumulative runoff for April to September was excessive in western Massachusetts and in the normal range in Rhode Island and central and eastern Massachusetts. Runoff at West Branch Westfield River at Huntington, Mass. (September 1935-) was the second highest for September for period of record and was exceeded only by that of September 1938.

Cumulative runoff for the water year was excessive in central and western Massachusetts and was in the normal range in Rhode Island and eastern Massachusetts.

At the end of the water year, runoff was excessive throughout Massachusetts and Rhode Island.

Figure 4 on page 16, for which records of three long-term index gaging stations were used, shows a comparison of the monthly and yearly mean discharge for the 1975 water year with the median discharge for the period 1941-70.

Table 3.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	<u>Length</u>	
inches (in)	25.4	millimeters (mm)
feet (ft)	.0254	meters (m)
miles (mi)	.3048	meters (m)
	1.609	kilometers (km)
	<u>Area</u>	
square miles (mi ²)	2.590	square kilometers (km ²)
	<u>Volume</u>	
gallons (gal)	3.785	*liters (l)
	3.785	cubic decimeters (dm ³)
million gallons (10 ⁶ gal)	3.785x10 ⁻³	cubic meters (m ³)
	3785	cubic meters (m ³)
cubic feet (ft ³)	3.785x10 ⁻³	cubic hectometers (hm ³)
	28.32	cubic decimeters (dm ³)
cfs/days [(ft ³ /s) : d]	.02832	cubic meters (m ³)
	2447	cubic meters (m ³)
	2.447x10 ⁻³	cubic hectometers (hm ³)
	<u>Flow</u>	
cubic feet per second (ft ³ /s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm ³ /s)
million gallons per day (mgd)	.02832	cubic meters per second (m ³ /s)
	43.81	cubic decimeters per second (dm ³ /s)
	.04381	cubic meters per second (m ³ /s)
	<u>Mass</u>	
tons (short)	.9072	tonnes (t)

*The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

WATER RESOURCES DATA, 1975

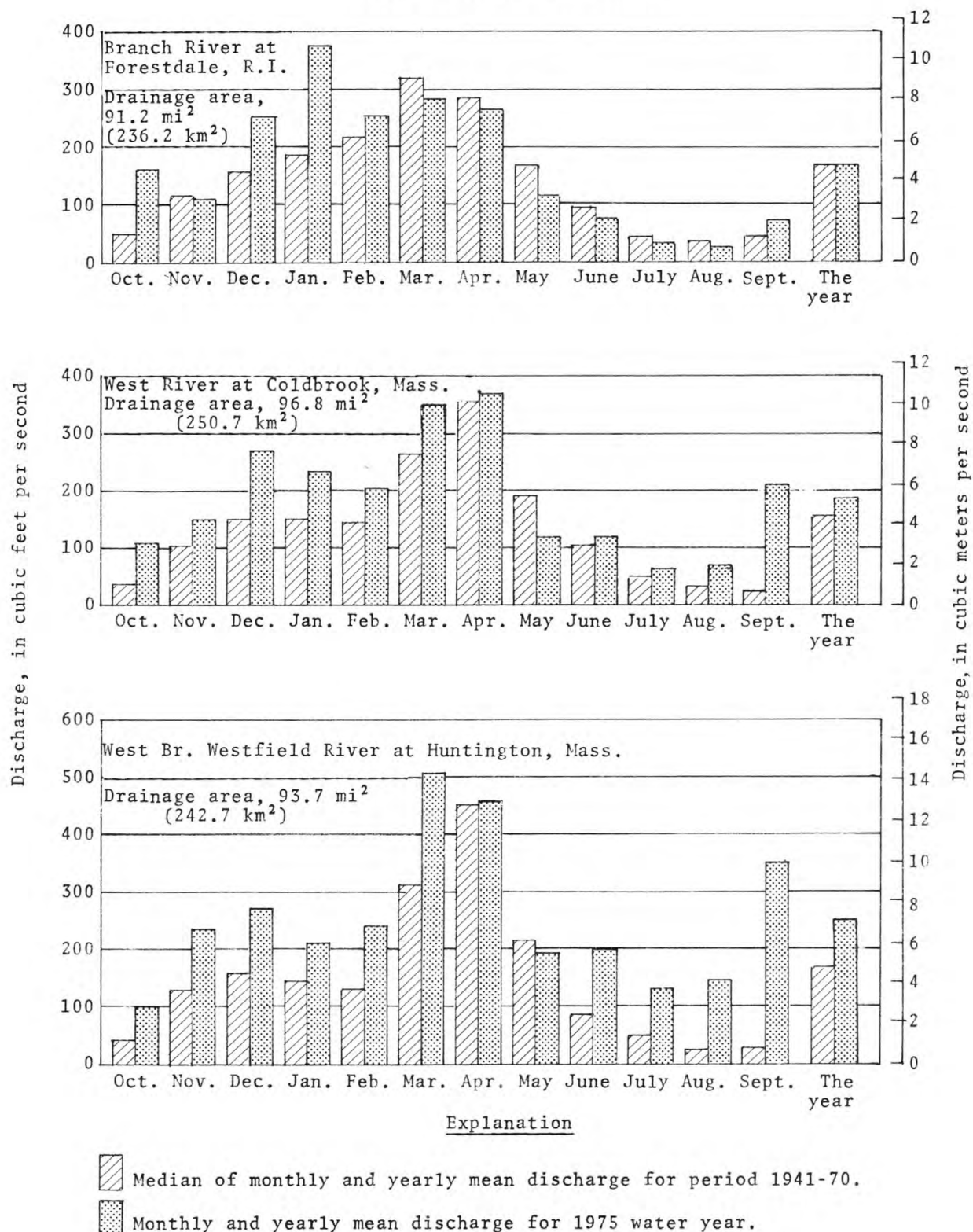


Figure 4.--Comparison of discharge at three long-term index gaging stations during 1975 water year with median discharge for period 1941-70.

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- U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn., published in separate volumes as follows:
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- _____, 1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.
- _____, 1957, The development and calibration of the visual-accumulation tube: Rept. 11, 109 p.
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- _____, 1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.
- _____, 1961, The single-stage sampler for suspended sediment: Rept. 13, 105 p.
- _____, 1963, Determination of fluvial sediment discharge: Rept. 14, 151 p.

MERRIMACK RIVER BASIN

19

01094340 WHITMAN RIVER NEAR WESTMINSTER, MASS.

LOCATION.--Lat 42°33'35", long 71°52'02", Worcester County, on upstream side of bridge on State Highway 2A, 1.3 mi (2.1 km) downstream from Crocker Pond, and 2.5 mi (4.0 km) northeast of Westminster, Mass.

PERIOD OF RECORD.--October 1974 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
DEC. 11...	1100	74	6.0	--	2.0	12.5	818	810	--
JAN. 14...	1115	82	6.0	-2.5	1.5	--	85	81	--
FEB. 05...	0800	89	6.3	-2.0	.0	--	22	84	--
MAR. 25...	1100	79	6.1	10.0	2.0	12.8	811	81	--
APR. 18...	1200	71	6.1	18.5	7.0	12.1	814	80	--
JUNE 17...	1000	82	6.8	20.0	21.0	8.2	21	815	43
JULY 08...	1330	82	6.4	29.0	23.0	7.4	27	52	82
AUG. 05...	1145	170	6.3	26.5	22.5	7.7	720	420	350
SEP. 10...	1100	89	7.6	16.5	15.0	9.5	3400	8110	824

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC. 11...	2.40	.400	.17	.02	.19	.05	.21	.45	.26
JAN. 14...	--	--	.19	.01	.20	.07	.12	.39	.19
FEB. 05...	.000	.000	.33	.00	.33	.01	.09	.43	.10
MAR. 25...	.000	31.0	.41	.01	.42	.02	.12	.56	.14
APR. 18...	.000	2.00	.15	.00	.15	.03	.12	.30	.15
JUNE 17...	.000	.000	.01	.01	.02	.00	.32	.34	.32
JULY 08...	.000	.000	.06	.00	.06	.01	.26	.33	.27
AUG. 05...	.000	.000	.05	.01	.06	.01	.33	.40	.34
SEP. 10...	.000	.000	.06	.00	.06	.01	.16	.23	.17

B NON-IDEAL COLONY COUNT.

MERRIMACK RIVER BASIN

01094340 WHITMAN RIVER NEAR WESTMINSTER, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
DEC. 11...	.02	55	2	14	4.8	0	1	--
JAN. 14...	.01	68	2	11	--	0	--	--
FEB. 05...	.01	61	2	10	--	0	--	--
MAR. 25...	.02	44	2	16	--	0	--	--
APR. 18...	.02	49	1	7	1.3	0	0	0
JUNE 17...	.03	49	3	16	--	0	--	--
JULY 08...	.04	60	2	12	4.5	0	11	0
AUG. 05...	.03	153	3	--	--	0	--	--
SEP. 10...	.03	187	1	14	.2	0	0	2

DATE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
DEC. 11...	--	--	--	3	0	2	9.1	11	--	--	--	--
APR. 18...	200	270	90	1	0	1	8.2	12	18	0	0	7
JULY 08...	90	540	75	8	0	7	8.4	14	16	0	0	7
SEP. 10...	1300	4200	500	5	0	4	6.7	15	14	0	0	5

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
DEC. 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	<1	0	3	2	0	2	0	34	.2	10	0	0
JULY 08...	0	0	8	3	0	1	0	50	.5	3	0	0
SEP. 10...	3	3	10	14	2	4	0	2	3.0	20	0	0

01094340 WHITMAN RIVER NEAR WESTMINSTER, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL GER- MANIUM (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TI- TANIUM (TI) (UG/L)	TOTAL ZIR- CONIUM (ZR) (UG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	COD IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ALUMI- NUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BERYL- LIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON IN BOTTOM MA- TERIAL (UG/G)
DEC. 11...	--	--	--	--	13300	7900	--	--	--	--	--	--
APR. 18...	0	0	2	0	10400	120	1600	2000	34	10	0	3
JULY 08...	0	1	2	0	12000	17000	900	2100	130	8	0	2
SEP. 10...	0	3	80	0	15000	16000	--	--	--	--	--	--
DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOLYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANA- DIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITA- NIUM IN BOTTOM MA- TERIAL (UG/G)
DEC. 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	1	2	0	6	11	0	2	0	2	3.0	14	80
JULY 08...	1	1	2	7	8	0	3	0	1	2.0	10	45
SEP. 10...	--	--	--	--	--	--	--	--	--	--	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
DEC. 11...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
JULY 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
SEP. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
FEB. 05...		.9	2.6	3.3	60	<.4	.7	.8
MAR. 25...		2.7	23	29	56	<.4	<.5	<.6
APR. 18...		2.4	2.4	3.0	45	.5	.7	.8
JUNE 17...		2.5	2.6	3.3	50	5.4	4.9	6.1
JULY 08...		<.7	2.0	2.5	48	<.4	<.4	<.4
AUG. 05...		<.7	1.7	2.2	52	<.4	<.4	<.4
SEP. 10...		.9	3.0	3.8	68	<.4	<.4	<.4

MERRIMACK RIVER BASIN

01094400 NORTH NASHUA RIVER AT FITCHBURG, MASS.

LOCATION.--Lat 42°34'34", long 71°47'19", Worcester County, on right bank 400 ft (100 m) upstream from Fifth Street Bridge at Fitchburg and 1.8 mi (2.9 km) upstream from Baker Brook.

DRAINAGE AREA.--63.6 mi² (164.7 km²).

PERIOD OF RECORD.--Discharge: October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m) from topographic map.

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Diversions above station for municipal use.

EXTREMES.--Period of record: Maximum discharge, 2,080 ft³/s (58.9 m³/s) Dec. 21, 1973 (gage height, 6.22 ft or 1.896 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 2, 1974; minimum daily, 24 ft³/s (0.68 m³/s) Aug. 26, 1974.

Current year: Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 8	2400	704 19.9	4.19 1.277	Apr. 3	1915	*1,670 47.3	*5.69 1.734
Mar. 20	1000	1,120 31.7	4.88 1.487	Sept. 27	0515	1,060 30.0	4.78 1.457

Minimum discharge, 17 ft³/s (0.48 m³/s) July 26; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	50	64	91	125	188	197	91	55	38	35	51
2	65	45	147	86	110	157	181	97	51	38	34	46
3	57	40	222	77	100	135	740	109	47	39	32	45
4	52	47	166	81	92	121	420	103	94	34	33	39
5	47	118	136	74	42	114	518	119	77	33	38	37
6	48	133	105	67	100	111	367	107	219	33	37	43
7	42	102	79	81	94	111	289	96	155	32	100	44
8	32	80	175	81	42	138	240	87	118	33	130	40
9	36	67	416	91	89	116	218	73	105	41	130	40
10	36	62	258	97	81	103	149	78	86	51	80	38
11	34	60	204	109	84	103	194	74	70	48	62	36
12	34	62	183	208	81	103	184	72	87	57	72	53
13	36	111	146	247	82	125	171	116	190	43	52	63
14	34	96	133	221	77	141	157	124	171	109	45	49
15	42	91	125	160	74	128	152	100	127	80	40	42
16	109	91	114	135	81	118	145	89	100	60	38	39
17	138	82	262	118	79	121	141	79	87	51	37	38
18	97	71	232	105	82	135	133	71	76	45	38	37
19	76	73	181	188	97	157	144	69	67	41	35	39
20	67	82	152	166	105	918	149	64	56	54	31	38
21	54	155	135	121	97	666	127	56	49	112	30	39
22	56	141	130	125	93	393	114	55	46	67	32	34
23	57	105	118	107	103	293	108	54	43	55	31	46
24	60	107	114	93	327	297	118	51	41	47	34	114
25	65	109	111	121	534	355	132	45	40	81	35	282
26	71	118	101	280	388	332	121	42	39	54	36	220
27	77	100	95	210	273	239	110	42	37	37	36	708
28	74	89	95	165	218	194	104	45	37	39	32	340
29	56	93	91	160	---	178	96	42	39	38	34	226
30	65	80	91	190	---	243	92	45	38	36	157	160
31	67	---	86	150	---	258	---	53	---	36	66	---
TOTAL	1878	2660	4707	4205	3859	6791	6561	2348	2451	1602	1622	3026
MEAN	60.6	88.7	152	136	138	219	219	75.7	81.7	51.7	52.3	101
MAX	138	155	416	280	534	918	920	124	219	112	157	708
MIN	34	40	64	67	77	103	92	42	37	32	30	34
CAL YR 1974	TOTAL	39667	MEAN 109	MAX 482	MIN 24							
WTR YR 1975	TOTAL	41710	MEAN 114	MAX 920	MIN 30							

01094500 NORTH NASHUA RIVER NEAR LEOMINSTER, MASS.

LOCATION.--Lat 42°30'06", long 71°43'23", Worcester County, on right bank 1.3 mi (2.1 km) upstream from Wekepeke Brook, 2.5 mi (4.0 km) southeast of Leominster, and 6.1 mi (9.8 km) upstream from confluence with South Branch Nashua River.

DRAINAGE AREA.--110 mi² (285 km²), includes 2.1 mi² (5.4 km²) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--September 1935 to current year.

Chemical analyses: Water years 1955, 1958 (partial-record station).

Water temperatures: Water year 1958 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 270.04 ft (82.308 m) above mean sea level.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1973: Drainage area.

REMARKS.--Records good. Regulation at low flow by mills above station. Diversion to basin above station for municipal supplies: for Fitchburg from Mare Meadow Reservoir since 1955; for Leominster from Wachusett Reservoir since 1966 and the Southeast Well Field since 1958.

AVERAGE DISCHARGE.--40 years, 192 ft³/s (5.437 m³/s).

EXTREMES.--Period of record: Maximum discharge, 16,300 ft³/s (462 m³/s) Mar. 18, 1936 (gage height, 20.53 ft or 6.258 m, from floodmarks), by computation of flow over dam; minimum, 11 ft³/s (0.31 m³/s) Aug. 29, 1948; minimum daily, 22 ft³/s (0.62 m³/s) Sept. 27, 1936, Sept. 2, 1957.
Maximum discharge since at least 1850, that of Mar. 18, 1936.

Current year: Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1515	1,380 39.1	4.99 1.521	Sept. 27	0700	1,780 50.4	5.69 1.734
Apr. 4	0230	*2,190 62.0	*6.30 1.920				

Minimum, 42 ft³/s (1.19 m³/s) Aug. 3; minimum daily, 49 ft³/s (1.39 m³/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	98	121	156	217	322	334	143	93	61	60	81
2	140	98	305	150	188	277	306	157	94	58	60	75
3	119	88	440	136	175	246	813	169	84	58	50	73
4	106	107	288	140	156	218	1520	164	153	53	56	67
5	101	206	233	129	156	201	779	182	124	50	64	63
6	96	235	202	119	173	195	576	165	356	49	62	66
7	88	179	152	137	170	198	472	148	234	52	159	66
8	83	150	187	142	155	232	400	138	168	53	214	61
9	83	125	807	157	150	212	352	126	156	67	221	64
10	82	116	440	184	143	187	320	120	131	82	130	60
11	80	115	342	195	156	181	304	118	112	74	105	57
12	76	120	279	317	139	174	292	118	142	102	121	87
13	73	186	249	421	142	210	274	192	277	155	88	105
14	74	168	229	389	137	237	257	206	241	188	78	73
15	78	153	217	281	131	219	244	161	181	138	69	65
16	232	148	199	235	131	201	239	146	151	103	65	63
17	242	137	409	208	130	210	225	130	137	86	64	62
18	166	126	394	174	136	226	213	117	123	76	66	60
19	129	125	295	304	161	246	220	112	108	66	64	66
20	113	141	245	279	177	944	225	106	94	66	59	64
21	106	242	218	211	159	1110	201	101	80	201	58	62
22	102	244	212	202	151	658	184	99	73	113	59	60
23	104	179	199	179	169	495	175	96	74	86	55	90
24	101	173	188	170	442	472	198	89	73	75	58	202
25	101	175	186	210	916	566	210	78	70	120	62	495
26	100	195	177	475	670	470	189	77	71	90	63	329
27	101	169	160	365	464	394	173	81	68	61	62	1200
28	92	150	161	275	368	336	169	84	65	66	58	580
29	90	149	153	266	---	310	157	79	61	63	57	380
30	100	145	154	327	---	389	149	77	62	61	294	270
31	126	---	151	258	---	426	---	99	---	60	122	---
TOTAL	3464	4642	7992	7191	6462	10762	10170	3878	3856	2633	2803	5046
MEAN	112	155	258	232	231	347	339	125	129	84.9	90.4	168
MAX	242	244	807	475	916	1110	1520	206	356	201	294	1200
MIN	73	88	121	119	130	174	149	77	61	49	50	57
CAL YR 1974	TOTAL	75232	MEAN 206	MAX 807	MIN 60							
WTR YR 1975	TOTAL	68899	MEAN 189	MAX 1520	MIN 49							

MERRIMACK RIVER BASIN

01095500 SOUTH BRANCH NASHUA RIVER AT CLINTON, MASS.

LOCATION.--Lat 42°24'12", long 71°41'19", Worcester County, at Wachusett Dam, 1 mi (1.6 km) south of Clinton.

DRAINAGE AREA.--107.69 mi² (278.92 km²) since July 1937.

PERIOD OF RECORD.--Discharge: July 1896 to current year.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

REVISIONS (WATER YEARS).--WSP 1051: 1928.

REMARKS.--Flow regulated by Wachusett Reservoir and several ponds. Records adjusted for change in contents in and wastage from Wachusett Reservoir and diversions from Ware River and Quabbin Reservoir or Swift River. Entire flow, except wastage, diverted for use of Boston metropolitan district and other municipalities.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

AVERAGE DISCHARGE.--79 years, 188 ft³/s (5.324 m³/s), 23.71 in/yr (602 mm/yr), adjusted to present drainage area.

MONTHLY DISCHARGE IN CUBIC FEET PER SECOND, AND RAINFALL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	Mean	Per square mile	Runoff in inches	Rainfall in inches
October.....	99.7	0.93	1.07	2.68
November.....	128	1.19	1.33	3.04
December.....	319	2.96	3.42	5.40
Calendar year 1974.....	205	1.90	25.78	49.33
January.....	291	2.70	3.11	5.01
February.....	245	2.28	2.37	3.94
March.....	357	3.32	3.82	3.26
April.....	374	3.47	3.87	3.04
May.....	151	1.40	1.62	2.25
June.....	58.7	.55	.61	3.87
July.....	57.7	.54	.62	5.07
August.....	31.9	.30	.34	5.58
September.....	132	1.23	1.37	7.93
Water year 1975.....	187	1.74	23.55	51.07

01095860 NASHUA RIVER AT FORT DEVENS, MASS.

LOCATION.--Lat 42°33'10", long 71°37'11", Worcester County, 500 ft (152 m) downstream from bridge on Ayer Road, 0.6 mi (0.97 km) downstream from Trout Brook, and at Fort Devens, Mass.

PERIOD OF RECORD.--October 1974 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
DEC.									
11...	1700	126	6.5	--	1.5	10.5	--	--	--
JAN.									
14...	0900	86	6.3	1.0	1.0	--	8000	5100	--
FEB.									
05...	1100	192	6.4	-2.0	.0	--	36000	82900	--
MAR.									
25...	0900	122	6.4	7.0	4.0	11.0	33000	813000	--
APR.									
30...	1100	175	6.6	16.0	9.5	8.1	81800	837	810
JUNE									
12...	1030	188	6.3	20.5	18.0	2.1	--	--	--
JULY									
08...	0700	219	6.5	23.5	25.0	3.0	8250	8300	830
AUG.									
05...	0730	260	6.4	23.5	26.0	2.3	140000	62000	150
SEP.									
10...	0930	252	6.9	14.0	18.0	2.4	81200	8400	840

DATE	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
DEC.									
11...	28.0	6.70	.36	.02	.38	.50	.80	1.7	1.3
JAN.									
14...	--	--	.41	.03	.44	.64	2.2	3.2	2.8
FEB.									
05...	.000	.000	.33	.01	.34	.35	.21	.90	.56
MAR.									
25...	.000	13.0	.35	.01	.36	.34	4.5	5.2	4.8
APR.									
30...	.000	.000	.53	.03	.56	.96	.00	1.3	.69
JUNE									
12...	1.60	.000	.33	.06	.39	1.1	1.8	3.3	2.9
JULY									
08...	.000	.000	.80	.20	1.0	1.9	.00	2.7	1.7
AUG.									
05...	.800	.000	.75	.24	.99	1.6	.60	3.2	2.2
SEP.									
10...	.000	.000	.53	.16	.69	1.7	.20	2.6	1.9

R. NIT-IDEAL COLONY COUNT.

MERRIMACK RIVER BASIN

01095860 NASHUA RIVER AT FORT DEVENS, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
DEC. 11...	.38	154	100	78	7.1	7	--	140
JAN. 14...	2.1	189	100	88	--	4	--	--
FEB. 05...	.08	58	2	12	--	0	--	--
MAR. 25...	1.9	238	60	330	--	--	--	--
APR. 30...	.98	917	25	65	11	1	0	0
JUNE 12...	1.7	137	15	23	--	0	--	--
JULY 08...	.86	133	10	23	16	0	1	410
AUG. 05...	.57	154	2	--	--	0	--	--
SEP. 10...	.98	143	4	18	6.1	0	0	350

DATE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	TOTAL BISMUTH (BT) (UG/L)	TOTAL BORON (B) (UG/L)
DEC. 11...	>10000	5700	190	14	0	11	13	17	260	<1	<5	42
APR. 30...	250	460	53	28	0	23	16	22	27	0	0	17
JULY 08...	16000	9100	120	35	0	29	20	30	520	1	<1	7
SEP. 10...	14000	10000	120	34	0	28	21	30	560	1	0	7

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
DEC. 11...	120	8	130	270	4	57	5	72	25	200	27	5
APR. 30...	1	0	8	6	0	12	0	66	1.0	15	<1	0
JULY 08...	300	7	330	1000	4	65	14	17	40	420	<1	1
SEP. 10...	550	6	380	1000	10	70	16	20	30	660	2	3

DATE	TOTAL GER- MANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TI- TANIUM (TI) (UG/L)	TOTAL ZIR- CONIUM (ZR) (UG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	COD IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ALUMI- NUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BERYL- LIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON IN BOTTOM MA- TERIAL (UG/G)
DEC. 11...	<5	10	>200	34	47900	--	9400	4800	70	350	0	18
APR. 30...	<1	1	42	<1	130000	340000	16000	8000	180	640	1	6
JULY 08...	<1	13	350	<2	250000	190000	--	--	--	--	--	--
SEP. 10...	<1	13	440	<1	230000	290000	--	--	--	--	--	--

01095860 NASHUA RIVER AT FORT DEVENS, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOBYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANA- DIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITA- NIUM IN BOTTOM MA- TERIAL (UG/G)
DEC. 11...	120	220	3	200	720	2	31	9	12	14	260	140
APR. 30...	300	470	8	400	1400	4	65	20	26	40	500	400
JULY 08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 10...	--	--	--	--	--	--	--	--	--	--	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
DEC. 11...	.00	.0	.02	.00	.00	.00	.00	.00	.00	.00	0	.1
APR. 30...	.00	.0	.02	.00	.00	.00	.00	.00	.00	.00	0	<.1
JULY 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
SEP. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
DEC. 11...		.7	3.0	3.8	72	3.3	1.5	41
JAN. 14...		2.3	3.1	3.9	87	8.1	7.6	120
FEB. 05...		<1.6	3.8	4.8	120	<.5	<.9	7
MAR. 25...		1.8	3.0	3.8	88	74	33	860
APR. 30...		<1.4	2.9	3.6	--	<.4	<.4	97
JUNE 12...		<1.7	3.1	4.0	110	1.3	.8	21
AUG. 05...		<2.0	4.1	5.2	150	<.4	<.4	4
SEP. 10...		<1.5	5.1	5.8	180	<.4	<.4	4

MERRIMACK RIVER BASIN

01096000 SQUANNAHOOK RIVER NEAR WEST GROTON, MASS.

LOCATION.--Lat 42°38'03", long 71°39'30", Middlesex County, on left bank 0.7 mi (1.1 km) downstream from Trout Brook and 2.7 mi (4.3 km) northwest of West Groton.

DRAINAGE AREA.--62.8 mi² (162.7 km²), excludes 2.10 mi² (5.44 km²) above outlet of Ashby Reservoir.

PERIOD OF RECORD.--Discharge: October 1949 to current year.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 244.27 (74.453 m) above mean sea level.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Occasional regulation at low flow by mill above station; regulation greater prior to 1961. Entire flow from 2.10 mi² (5.44 km²) above outlet of Ashby Reservoir diverted for municipal supply of Fitchburg except during water years 1964, 1967-75.

AVERAGE DISCHARGE.--26 years 109 ft³/s (3.087 m³/s), 23.57 in/yr (599 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,010 ft³/s (114 m³/s) Oct. 16, 1955 (gage height, 8.04 ft or 2.451 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) Sept. 7, 1965.

Current year: Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	0400	1,280 36.2	5.80 1.768	Apr. 4	1230	*1,500 42.5	*6.07 1.850

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Aug. 21-24, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	36	57	100	145	226	280	105	39	22	16	43
2	65	35	42	94	130	146	250	105	40	22	15	29
3	51	35	263	87	110	175	240	100	37	19	15	24
4	44	36	211	90	96	152	1130	100	56	14	15	22
5	40	67	144	84	96	139	700	105	84	19	16	20
6	37	138	119	72	100	135	500	98	130	17	16	20
7	33	135	104	80	107	135	420	89	237	17	27	19
8	30	94	114	83	100	153	370	83	138	17	46	18
9	30	73	437	91	96	146	330	78	99	17	111	18
10	29	62	407	114	88	128	290	72	81	20	71	16
11	27	56	240	126	90	126	260	71	63	23	42	15
12	27	54	146	177	86	122	240	68	60	24	31	17
13	27	69	162	235	85	136	230	88	155	36	26	22
14	26	108	149	251	83	165	210	159	216	63	22	19
15	25	89	144	193	81	151	200	142	147	70	20	17
16	39	74	132	160	80	134	205	105	106	50	18	16
17	129	64	186	140	80	143	205	89	85	35	18	16
18	110	60	278	140	81	163	205	73	71	25	17	15
19	73	57	214	131	87	186	215	65	60	24	16	16
20	58	56	171	163	104	496	240	62	50	23	15	16
21	51	103	149	155	100	1050	210	51	44	32	14	16
22	48	193	142	121	91	550	185	47	37	39	14	16
23	45	143	141	110	102	420	170	46	31	28	14	19
24	41	105	130	103	182	400	160	45	30	24	14	29
25	39	96	127	111	537	420	170	42	28	25	16	149
26	37	87	118	241	572	450	160	38	28	25	15	188
27	37	74	103	287	363	370	145	36	24	23	15	391
28	34	69	108	209	264	310	135	39	23	21	14	432
29	34	66	101	172	---	280	120	34	23	19	14	195
30	34	61	102	192	---	280	115	32	23	19	49	121
31	34	---	100	170	---	330	---	36	---	18	77	---
TOTAL	1439	2395	5131	4491	4136	8267	8330	2303	2245	834	829	1954
MEAN	46.4	79.8	166	145	148	267	278	74.3	74.8	26.9	26.7	65.1
MAX	129	193	437	287	572	1050	1130	159	237	70	111	432
MIN	25	35	57	72	80	122	115	32	23	17	14	15
CFSM	.74	1.27	2.64	2.31	2.36	4.25	4.43	1.18	1.19	.43	.43	1.04
IN.	.85	1.42	3.04	2.66	2.45	4.90	4.93	1.36	1.33	.49	.49	1.16
CAL YR 1974 TOTAL	40098.8											
WTR YR 1975 TOTAL	42354.0											
MEAN 110												
MAX 1130												
MIN 14												
CFSM 1.75												
IN 23.75												
CFSM 1.85												
IN 25.09												

NOTE.--No gage-height record Mar. 22 to Apr. 3, Apr. 5 to May 6.

MERRIMACK RIVER BASIN

29

01096500 NASHUA RIVER AT EAST PEPPERELL, MASS.

LOCATION.--Lat 42°40'03", long 71°34'32", Middlesex County, on right bank 200 ft (60 m) downstream from powerplant of Pepperell Paper Co. at East Pepperell and 0.8 mi (1.3 km) upstream from Nissitissit River.

DRAINAGE AREA.--Total above gage, 433 mi² (1,121 km²); net above gage, 316 mi² or 818 km² (flow diverted from 117 mi² or 303 km² for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--Discharge: October 1935 to current year.

Chemical analyses: Water years 1952-53, 1973-74 (partial-record station).

Water temperatures: Water years 1952, 1973-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 169.04 ft (51.523 m) above mean sea level.

REVISIONS.--WSP 801: Drainage area.

REMARKS.--Records good. Extremes and daily discharge include water released while diverting drainage from basin of South Branch Nashua River for use of Boston metropolitan district, water diverted into basin from Ware River basin since 1955 for municipal use of Fitchburg, and water diverted around station through plant of Pepperell Paper Co. Flow regulated by powerplant above station.

AVERAGE DISCHARGE.--40 years, 527 ft³/s (14.92 m³/s), 22.65 in/yr (575 mm/yr), adjusted for released water and since 1966 for diversion to Nashua River.

EXTREMES.--Period of record: Maximum discharge, 20,900 ft³/s (592 m³/s) Mar. 20, 1936 (gage height, 19.1 ft or 5.82 m, from floodmarks), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of velocity-area studies; minimum daily, 1.1 ft³/s (0.031 m³/s) Aug. 13, 1939.

Current year: Maximum discharge, 3,290 ft³/s (93.2 m³/s) Apr. 5 (gage height, 6.53 ft or 1.990 m); minimum daily, 6.1 ft³/s (0.17 m³/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1050	223	515	470	724	1210	1280	545	13	6.8	96	277		
2	586	235	420	474	622	1050	1060	172	215	235	16	450		
3	466	196	790	545	559	993	1000	77	306	112	16	350		
4	451	264	1120	586	482	849	2210	377	340	6.1	19	250		
5	447	325	825	559	458	757	3280	680	355	32	18	231		
6	297	511	622	375	462	724	2790	707	189	79	142	77		
7	211	572	568	506	506	650	2050	434	550	207	301	11		
8	211	563	335	404	474	640	1560	256	568	311	99	15		
9	211	458	1220	412	454	713	1280	123	702	297	287	198		
10	211	318	1830	462	403	718	1100	298	478	108	409	281		
11	208	267	1420	390	422	702	861	315	331	27	404	92		
12	220	264	1050	420	415	696	861	412	348	44	362	15		
13	223	311	861	897	409	707	807	383	192	24	359	12		
14	223	409	790	1150	411	707	873	608	554	431	307	13		
15	217	511	735	993	378	635	773	702	545	482	97	192		
16	236	454	696	795	409	608	702	685	675	373	11	304		
17	577	431	819	691	405	613	691	220	670	306	11	249		
18	680	140	1210	568	401	691	519	100	572	215	148	219		
19	559	123	1150	660	412	729	595	595	297	193	176	74		
20	341	297	922	813	462	1130	604	411	290	73	184	11		
21	272	438	784	691	478	2450	696	276	107	197	263	11		
22	329	458	718	617	449	2800	713	273	16	274	102	215		
23	302	524	685	581	462	2070	577	273	212	274	12	288		
24	275	502	670	536	691	1570	375	92	306	271	12	226		
25	217	482	660	545	1840	1540	333	21	301	98	61	473		
26	229	474	650	861	2640	1580	498	148	162	117	181	1080		
27	245	470	622	1140	2240	1450	482	386	14	15	227	1190		
28	265	196	511	974	1630	1190	660	310	21	218	77	1860		
29	250	252	466	807	---	1030	640	306	27	283	12	1780		
30	240	396	470	843	---	1000	554	300	30	215	14	1120		
31	242	---	470	861	---	1170	---	106	---	71	289	---		
TOTAL	10491	11064	24604	20626	19698	33372	30424	10591	9386	5594.9	4712	11564		
MFAN	338	369	794	665	704	1077	1014	342	313	180	152	385		
MAX	1050	572	1830	1150	2640	2800	3280	707	702	482	409	1860		
MIN	208	123	335	375	378	608	333	21	13	6.1	11	11		
MEAN†	323	361	786	658	696	1069	1007	334	306	173	145	375		
CFSM†	1.02	1.14	2.49	2.08	2.20	3.38	3.19	1.06	.97	.55	.46	1.19		
IN.†	1.18	1.28	2.87	2.40	2.29	3.90	3.56	1.22	1.08	.63	.53	1.32		
CAL YR 1974	TOTAL	207326.0	MEAN	568	MAX	2160	MIN	11	MEAN†	559	CFSM†	1.77	IN†	24.02
WTR YR 1975	TOTAL	192126.9	MEAN	526	MAX	3280	MIN	6.1	MEAN†	518	CFSM†	1.64	IN†	22.26

† Adjusted for water released while diverting drainage from basin of South Branch Nashua River for use of Boston metropolitan district and for water diverted into basin from Ware River basin and for municipal supply of Fitchburg (figures represent discharge from net drainage area). Records of released water furnished by Water Division of Metropolitan District Commission and records of diversion furnished by city of Fitchburg.

MERRIMACK RIVER BASIN

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 42°38'20", long 71°22'17", Middlesex County, on left bank at intake of Lowell water treatment plant, 2.7 mi (4.3 km) upstream from Pawtucket Dam, and 6 mi (9.7 km) downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--CHEMICAL ANALYSES: August 1969 to current year.

BIOLOGICAL DETERMINATION: November 1974 to current year.

WATER TEMPERATURES: January to September 1973.

REMARKS.--Discharge computed on basis of records for gaging station below Concord River (sta. 01100000) and gaging station on Concord River (sta. 01099500).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (FT ³ /S)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV. 04...	1430	2700	108	6.6	--	10.5	7.5	3100	13000	430	37
DEC. 10...	1300	19000	73	6.6	8.0	1.5	10.6	1200	19000	1400	--
JAN. 22...	1300	5940	105	--	--	.0	--	1100	--	--	--
FEB. 05...	1300	5930	94	6.4	.0	.0	--	--	9000	1100	400
MAR. 21...	1000	22100	86	6.5	8.5	4.0	12.2	1200	17000	3700	930
APR. 29...	1100	16200	56	6.7	16.5	7.5	11.4	690	8690	530	42
JUNE 09...	1100	9070	81	6.8	14.0	16.0	9.1	17000	24000	11000	300
JULY 09...	0800	2230	111	7.1	25.0	26.5	7.9	82000	51000	7200	--
AUG. 04...	0730	1450	115	6.2	21.0	28.0	5.7	19000	74000	12000	400
SEP. 09...	0930	3180	107	7.5	18.0	20.5	6.1	7600	815000	81500	8110

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 04...	4.80	.000	.23	.02	.25	.89	.31	1.5	1.2	.18
DEC. 10...	5.20	2.80	.28	.07	.35	.23	.40	.98	.63	.13
JAN. 22...	2.40	4.00	.12	.00	.12	.33	.20	.65	.53	.09
FEB. 05...	.000	.000	.74	.03	.77	1.4	.00	2.2	1.4	.30
MAR. 21...	.000	.000	.18	.00	.18	.17	.57	.92	.74	.09
APR. 29...	.800	.000	.26	.02	.28	.10	.72	1.1	.82	.05
JUNE 09...	2.40	.000	.24	.01	.25	.24	.29	.78	.53	.09
JULY 09...	21.0	3.20	.24	.01	.25	.45	.36	1.1	.81	.16
AUG. 04...	21.0	.000	.28	.02	.30	.75	.85	1.9	1.6	.10
SEP. 09...	--	--	.25	.01	.26	.44	.38	1.1	.82	.22

R NON-IDEAL COLONY COUNT.

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	DIS-SOLVED SILICA (SIU ²) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)
DEC. 10...	6.2	920	150	100	10	90	4.0	1.0	7.0	1.2
APR. 29...	1.3	340	80	27	0	20	7.0	.9	4.4	.7
JUNE 09...	5.3	580	310	60	20	40	4.4	.8	7.7	1.0
SEP. 09...	--	400	--	60	--	--	--	--	--	--

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
DEC. 10...	10	0	8	7.6	10	.1	56	42	14	6
APR. 29...	5	0	4	6.5	7.6	.3	39	31	21	17
JUNE 09...	9	0	7	7.3	13	.2	56	45	14	7
SEP. 09...	14	0	11	8.8	13	--	--	--	--	--

DATE	CARBON DIOXIDE (CO ₂) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)
DEC. 10...	4.0	6.0	2	2	0	<18	1	1	22	0
APR. 29...	1.4	--	0	0	0	0	0	0	3	0
JUNE 09...	2.0	--	1	0	3	0	0	0	30	20
SEP. 09...	.6	2.6	--	--	--	<2	--	--	7	--

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC. 10...	<10	<2	1	1	10	10	0	10	6	5
APR. 29...	10	0	0	0	3	0	10	4	0	1
JUNE 09...	<10	1	0	1	10	0	10	4	1	3
SEP. 09...	--	0	--	--	5	--	--	6	--	--

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†NOV. 04	1430	CHLOROPHYTA			†JAN. 22	1300	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		..OCCYSTACEAE					..OCCYSTACEAE		
		ANKISTRODESMUS	31	1			CHLORELLA	44	4
		CHLORELLA	93	3			CHRYSOPTHYTA		
		..SCENEDESMACEAE					..BACILLARIOPHYCEAE		
		SCENEDESMUS	340	11			..CENTRALES		
		CHRYSOPTHYTA					..COSCONODISCACEAE		
		..BACILLARIOPHYCEAE					CYCLOTILLA	22	2
		..CENTRALES					..PENNALES		
		..COSCONODISCACEAE					..FRAGILARIACEAE		
		CYCLOTILLA	93	3			ASTERIONELLA	22	2
		MELOSIRA	190	6			FRAGILARIA	88	8
		..PENNALES					SYNEDRA	22	2
		..FRAGILARIACEAE					..MERIDIONACEAE		
		ASTERIONELLA	2,100	68			MERIDION	22	2
		..GOMPHONEMACEAE					..NITZSCHACEAE		
		GOMPHONEMA	62	2			NITZSCHIA	22	2
		..NAVICULACEAE					CYANOPHYTA		
		STAURONEIS	93	3			..MYXOPHYCEAE		
		..NITZSCHACEAE					..CHROOCOCCALES		
		NITZSCHIA	62	2			..CHROOCOCCACEAE		
		..CHRYSOPTHYCEAE					ANACYSTIS	55	5
		..CHRYSONOMADACEAE					..OSCILLATORIALES		
		..OCHROMONADACEAE					..OSCILLATORIAEAE		
		DINOBRYON	31	1			LYNGBYA	780	71
		TOTAL	3,100				TOTAL	1,100	
†DEC. 10	1300	CHLOROPHYTA			†MAR. 21	1000	CHRYSOPTHYTA		
		..CHLOROPHYCEAE					..BACILLARIOPHYCEAE		
		..CHLOROCOCCALES					..CENTRALES		
		..OCCYSTACEAE					..COSCONODISCACEAE		
		DICTYOSPHAERIUM	96	8			MELOSIRA	110	9
		..SCENEDESMACEAE					..PENNALES		
		CRUCIGENIA	96	8			..ACHNANTHACEAE		
		..SCENEDESMUS	140	12			ACHNANTHES	36	3
		CHRYSOPTHYTA					RHOIOCOSPHEA	24	2
		..BACILLARIOPHYCEAE					..CYMBELLACEAE		
		..CENTRALES					CYMBELLA	24	2
		..COSCONODISCACEAE					..FRAGILARIACEAE		
		CYCLOTILLA	48	4			ASTERIONELLA	190	16
		MELOSIRA	420	35			..GOMPHONEMACEAE		
		..PENNALES					GOMPHONEMA	60	5
		..ACHNANTHACEAE					..MERIDIONACEAE		
		ACHNANTHES	24	2			MERIDION	24	2
		..COCCONEIS	72	6			..NAVICULACEAE		
		..CYMBELLACEAE					NAVICULA	400	33
		CYMBELLA	24	2			STAURONEIS	24	2
		..FRAGILARIACEAE					..NITZSCHACEAE		
		ASTERIONELLA	48	4			NITZSCHIA	310	26
		..FRAGILARIA	48	4			..TABELLARIACEAE		
		..NAVICULACEAE					TABELLARIA	24	2
		NAVICULA	72	6			TOTAL	1,200	
		..PINNULARIA	24	2	†APR. 29	1100	CHRYSOPTHYTA		
		..NITZSCHACEAE					..BACILLARIOPHYCEAE		
		NITZSCHIA	72	6			..PENNALES		
		..TABELLARIACEAE					..FRAGILARIACEAE		
		TABELLARIA	24	2			ASTERIONELLA	470	68
		..CHRYSOPTHYCEAE					SYNEDRA	220	32
		..CHRYSONOMADACEAE					TOTAL	690	
		..OCHROMONADACEAE							
		DINOBRYON	24	2					
		TOTAL	1,200						

† USED DEPTH INTEGRATED SAMPLING METHOD.

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†JUN 09	1100	CHLOROPHYTA			†JULY 09	0800	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		...SCENEDESMACEAE					...HYDRODICTYACEAE		
		SCENEDESMUS	510	3			PEDIASTRUM	3,400	4
		TETRASTRUM	510	3			...MICRACTINIACEAE		
		CHRYSTOPHYTA					...MICHACTINIUM		*
		..BACILLARIOPHYCEAE					...OCCYSTACEAE		
		..CENTRALES					ANKISTRODESMUS	430	1
		...COSCINODISCACEAE					DICTYOSPHAERIUM	4,300	5
		CYCLOTELLA	1,200	7			KIRCHNERIELLA	3,000	4
		MELOSIRA	9,700	57			OOCYSTIS		*
		..PENNALES					QUADRIGULA		*
		...FRAGILARIACEAE					SELENASTRUM		*
		FRAGILARIA	340	2			TETRAEDRON		*
		...NAVICULACEAE					...SCENEDESMACEAE		
		NAVICULA	170	1			...SCENEDESMUS	7,700	9
		...NITZSCHACEAE					...TETRASTRUM	860	1
		NITZSCHIA	1,000	6			..TETRASPORALES		
		...TAHELLARIACEAE					..PALMELLACEAE		
		TAHELLARIA	170	1			...GLOEOCYSTIS	860	1
		..CHRYSTOPHYCEAE					...SPHAEROCYSTIS		*
		..CHRYSSOMONADALES					..VOLVOCALES		
		...MALLOMONADACEAE					...CHLAMYDOMONADACEAE		
		MALLOMONAS	170	1			...CHLAMYDOMONAS	430	1
		CYANOPHYTA					...VOLVOCAEAE		
		..MYXOPHYCEAE					...EUDORINA		*
		...CHROOCOCCALES					...PANDORINA		*
		...CHROOCOCCACEAE					CHRYSTOPHYTA		
		ANACYSTIS	850	5			..BACILLARIOPHYCEAE		
		...OSCILLATORIALES					..CENTRALES		
		OSCILLATORIAEAE					...COSCINODISCACEAE		
		LYNGBYA	2,400	14			CYCLOTELLA	430	1
		TOTAL	17,000				MELOSIRA		*
							..PENNALES		
							...FRAGILARIACEAE		
							ASTERIONELLA		*
							FRAGILARIA	210	*
							SYNEDRA	210	*
							...NAVICULACEAE		
							CALONEIS		*
							NAVICULA	210	*
							PINNULARIA		*
							...NITZSCHACEAE		
							NITZSCHIA	430	1
							..CHRYSTOPHYCEAE		
							..CHRYSSOMONADALES		
							...MALLOMONADACEAE		
							MALLOMONAS		*
							CYANOPHYTA		
							..MYXOPHYCEAE		
							...CHROOCOCCALES		
							...CHROOCOCCACEAE		
							ANACYSTIS	5,600	7
							ANACYSTIS INCERTA	53,000	65
							...OSCILLATORIALES		
							...NOSTOCACEAE		
							ANABAENA		*
							APHANIZOMENON		*
							EUGLENOPHYTA		
							..EUGLENOPHYCEAE		
							..EUGLENALES		
							...EUGLENACEAE		
							PHACUS		*
							PYRRHOPHYTA		
							..DINOPHYCEAE		
							...PERIDINIALES		
							...GLENODINIACEAE		
							GLENODINIUM	210	*
							TOTAL	82,000	

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

† USED DEPTH INTEGRATED SAMPLING METHOD.

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
† AUG. 04	0730	CHLOROPHYTA			† SEP. 09	0930	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		..OCCYSTACEAE					..HYDRODICTYACEAE		
		DICTYOSPHAERIUM	3,100	16			PEDIASTRUM	630	8
		KIRCHNERIELLA	79	*			OCCYSTACEAE		
		SCENEDESMACEAE					ANKISTRODESMUS	390	5
		ACTINASTRUM	630	3			KIRCHNERIELLA	150	2
		SCENEDESMUS	950	5			TETRAEDRON	39	1
		TETRASTRUM	310	2			SCENEDESMACEAE		
		..VOLVOCALES					ACTINASTRUM	39	1
		..VOLVOCAEAE					CRUCIGENIA	470	6
		EUDORINA		*			SCENEDESMUS	1,400	19
		..ZYGEMATALES					TETRASTRUM	79	1
		..DESMIDIACEAE					..VOLVOCALES		
		COSMARIUM	79	*			..CHLAMYDOMONADACEAE		
		CHRYSOPHYTA					CHLAMYDOMONAS	39	1
		..BACILLARIOPHYCEAE					..VOLVOCAEAE		
		..CENTRALES					..PLEODORINA	590	8
		..COSCINODISCACEAE					CHRYSOPHYTA		
		CYCLOTELLA	79	*			..BACILLARIOPHYCEAE		
		..PENNALES					..CENTRALES		
		..FRAGILARIACEAE					..COSCINODISCACEAE		
		ASTERIONELLA	79	*			CYCLOTELLA	1,500	20
		..FRAGILARIA	630	3			MELOSIRA	79	1
		..NAVICULACEAE					..PENNALES		
		NAVICULA	150	1			..ACHNANTHACEAE		
		..NITZSCHIAEAE					ACHNANTHES	39	1
		NITZSCHIA	230	1			..CYMBELLACEAE		
		CYANOPHYTA					CYMBELLA	39	1
		..MYXOPHYCEAE					..NAVICULACEAE		
		..CHROOCOCCALES					DIPLONEIS	39	1
		..CHROOCOCCACEAE					NAVICULA	230	3
		AGMENELLUM	1,200	6			..PINNULARIA	39	1
		ANACYSTIS	12,000	61			..NITZSCHIAEAE		
		..OSCILLATORIALES					NITZSCHIA	150	2
		..NOSTOCAEAE					..TABELLARIAEAE		
		ANABAENA		*			TABELLARIA		*
		TOTAL	19,000				CYANOPHYTA		
							..MYXOPHYCEAE		
							..CHROOCOCCALES		
							..CHROOCOCCACEAE		
							ANACYSTIS	1,500	20
							EUGLENOPHYTA		
							..EUGLENOPHYCEAE		
							..EUGLENALES		
							..EUGLENACEAE		
							TRACHELOMONAS	79	1
							TOTAL	7,600	

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

† USED DEPTH INTEGRATED SAMPLING METHOD.

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.

LOCATION.--Lat 42°27'10", long 71°34'52", Worcester County, at culvert on Brown Road, 400 ft (122 m) upstream from Interstate Highway 495, 0.3 mi (0.5 km) upstream from gaging station, and 1.1 mi (1.8 km) west of East Bolton.

PERIOD OF RECORD.--CHEMICAL ANALYSES: June 1971 to current year.

WATER TEMPERATURES: June 1971 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station 0.3 mi (0.5 km) downstream, are available at district office. Interruptions in the record due to a malfunction of the instrument. Recording air-temperature gage located at station since October 1972.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 195 micromhos Nov. 9, 1971; minimum, 37 micromhos Aug. 30, 1975.

WATER TEMPERATURES: Maximum, 29.0°C July 17, 18, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 178 micromhos Sept. 23; minimum, 37 micromhos Aug. 30.

WATER TEMPERATURES: Maximum, 29.0°C July 17, 18; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	85	77	82	---	---	---	86	84	85	70	69	69
2	88	83	85	---	---	---	85	65	73	77	70	71
3	87	84	85	---	---	---	74	70	72	77	74	76
4	86	82	84	81	75	78	81	75	77	76	71	75
5	87	81	84	81	75	78	83	78	81	78	75	76
6	88	82	84	79	76	78	84	80	82	81	76	78
7	91	84	87	80	78	79	82	80	81	77	70	75
8	91	86	88	79	79	79	80	64	76	77	71	75
9	---	---	---	---	---	---	71	66	69	75	65	69
10	---	---	---	---	---	---	73	70	71	72	67	70
11	---	---	---	---	---	---	74	72	73	73	66	69
12	---	---	---	77	77	77	76	73	74	68	66	66
13	---	---	---	78	76	77	79	73	75	66	63	64
14	---	---	---	79	79	79	77	73	75	70	64	66
15	---	---	---	79	78	79	79	73	76	77	70	74
16	---	---	---	79	77	78	78	68	74	77	71	75
17	---	---	---	79	78	79	70	67	69	76	67	74
18	---	---	---	80	78	79	71	70	70	78	63	71
19	---	---	---	79	78	79	72	71	71	74	67	70
20	---	---	---	80	75	79	73	70	72	74	69	71
21	---	---	---	80	75	78	73	71	72	76	72	75
22	---	---	---	81	79	80	74	71	72	76	71	74
23	---	---	---	81	80	81	75	72	73	75	72	74
24	---	---	---	82	80	81	74	71	72	76	69	73
25	---	---	---	82	80	81	72	69	70	74	65	70
26	---	---	---	82	79	80	78	71	73	72	66	68
27	---	---	---	83	81	82	78	73	75	71	67	69
28	---	---	---	83	81	82	77	71	74	75	71	73
29	---	---	---	83	81	83	78	74	76	79	71	75
30	---	---	---	84	82	83	76	70	73	79	72	75
31	---	---	---	---	---	---	77	70	74	76	75	76
MONTH	---	---	---	84	75	80	86	64	74	81	63	72

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	77	75	76	83	81	82	78	73	76	---	---	---
2	78	76	77	84	82	83	78	75	77	---	---	---
3	79	76	78	84	82	83	---	---	---	---	---	---
4	80	76	79	85	83	84	---	---	---	---	---	---
5	79	76	78	85	81	83	---	---	---	---	---	---
6	76	75	76	84	80	82	---	---	---	---	---	---
7	76	72	74	83	80	82	---	---	---	---	---	---
8	78	74	76	83	80	81	---	---	---	80	78	79
9	77	60	75	83	80	82	---	---	---	80	78	79
10	79	65	75	84	82	83	---	---	---	80	78	79
11	79	71	76	83	79	81	---	---	---	81	79	80
12	78	60	73	82	77	80	---	---	---	81	79	80
13	77	74	75	80	75	78	---	---	---	80	73	77
14	77	66	74	81	79	80	---	---	---	79	77	78
15	77	71	75	81	72	77	---	---	---	79	78	79
16	76	74	75	81	74	79	---	---	---	79	76	78
17	76	74	75	81	76	79	---	---	---	81	78	79
18	77	74	75	80	77	79	---	---	---	81	79	80
19	83	68	75	80	74	78	---	---	---	83	80	82
20	83	76	78	76	67	69	---	---	---	88	82	84
21	77	76	76	77	70	73	---	---	---	87	83	85
22	77	74	75	79	77	78	---	---	---	84	83	83
23	76	73	75	80	78	79	---	---	---	89	83	86
24	75	57	65	80	74	78	---	---	---	88	85	86
25	60	58	59	78	77	78	---	---	---	85	83	84
26	65	60	63	79	77	78	---	---	---	86	84	85
27	81	65	71	81	78	79	---	---	---	87	84	86
28	84	80	82	81	76	79	---	---	---	88	85	87
29	---	---	---	80	75	78	---	---	---	90	87	88
30	---	---	---	77	70	75	---	---	---	88	86	87
31	---	---	---	77	74	76	---	---	---	91	85	87
MONTH	84	57	74	85	67	79	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	90	86	88	92	83	87	118	111	114	85	81	83
2	90	87	88	93	86	90	121	115	117	117	76	90
3	89	86	88	99	91	94	125	117	121	126	76	100
4	88	79	82	97	92	94	127	122	124	149	91	123
5	85	84	84	98	93	95	124	114	119	153	132	146
6	83	61	72	99	94	96	113	98	107	160	138	148
7	77	74	76	103	92	98	88	68	79	133	87	102
8	77	76	76	102	93	99	83	64	73	145	135	141
9	78	76	77	104	97	100	85	76	82	162	146	156
10	81	77	79	106	95	101	79	74	76	152	116	132
11	83	80	81	105	96	101	74	68	71	138	115	125
12	83	72	78	107	80	94	71	62	66	154	89	139
13	75	72	74	88	81	84	75	61	67	81	64	69
14	77	74	76	90	81	84	72	63	67	79	72	74
15	78	76	77	103	85	94	68	59	65	95	71	85
16	80	77	78	108	102	105	65	60	62	108	95	101
17	80	79	79	110	104	108	59	52	56	128	103	110
18	84	80	81	116	108	113	56	48	52	134	116	125
19	86	80	84	116	109	113	138	46	97	142	117	136
20	84	82	83	118	109	114	140	108	124	141	99	118
21	---	---	---	111	68	85	138	111	122	149	124	142
22	---	---	---	91	83	84	174	129	157	154	103	129
23	---	---	---	114	80	104	126	115	120	178	74	108
24	---	---	---	120	110	116	123	112	116	79	58	68
25	88	84	86	117	76	87	136	105	123	84	65	76
26	89	81	85	101	91	95	150	134	140	92	70	86
27	90	82	85	111	101	105	149	130	139	84	63	74
28	88	83	86	112	103	109	131	109	118	94	87	90
29	90	83	85	112	105	109	120	105	111	97	95	96
30	90	83	85	113	100	107	124	37	76	98	94	97
31	---	---	---	116	108	113	96	84	89	---	---	---
MONTH	90	61	81	120	68	99	174	37	98	178	58	109
YEAR	178	37	85									

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	10.0	11.0	---	---	---	0.5	0.0	0.0	1.5	0.0	1.0
2	12.0	10.0	10.5	---	---	---	1.0	0.0	1.0	1.0	0.0	0.5
3	10.0	8.0	9.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
4	9.0	7.0	8.0	11.0	10.5	11.0	1.0	0.0	0.0	1.0	0.0	0.5
5	10.5	7.0	9.0	10.5	9.0	10.0	0.5	0.0	0.0	0.5	0.0	0.0
6	12.5	9.0	11.0	10.0	8.5	9.5	1.0	0.0	0.0	0.0	0.0	0.0
7	14.5	11.0	12.0	9.0	7.5	8.0	1.0	0.0	0.0	0.0	0.0	0.0
8	11.0	9.0	9.5	7.5	7.0	7.0	4.0	1.0	2.0	0.5	0.0	0.0
9	---	---	---	---	---	---	4.0	1.5	3.5	0.5	0.0	0.0
10	---	---	---	---	---	---	1.5	0.5	1.0	1.0	0.0	0.5
11	---	---	---	---	---	---	1.5	0.0	0.5	1.5	1.0	1.0
12	---	---	---	7.5	7.5	7.5	1.5	0.5	1.0	2.5	0.5	1.5
13	---	---	---	8.5	6.0	7.5	2.0	0.5	1.5	1.5	0.0	0.5
14	---	---	---	7.5	5.0	6.5	2.5	1.5	2.0	0.5	0.0	0.0
15	---	---	---	6.5	4.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0
16	---	---	---	5.0	3.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0
17	---	---	---	4.5	3.0	3.5	2.5	0.5	1.5	0.0	0.0	0.0
18	---	---	---	5.0	2.5	4.0	2.0	0.5	1.5	0.0	0.0	0.0
19	---	---	---	5.5	3.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0
20	---	---	---	6.0	4.0	5.0	2.0	0.5	1.0	0.0	0.0	0.0
21	---	---	---	6.0	4.0	5.5	1.5	1.0	1.5	0.0	0.0	0.0
22	---	---	---	4.0	1.5	3.0	2.0	1.0	1.5	0.0	0.0	0.0
23	---	---	---	2.5	1.0	1.5	1.5	0.5	1.0	0.0	0.0	0.0
24	---	---	---	4.5	1.5	3.0	2.0	1.0	1.5	1.0	0.0	0.0
25	---	---	---	6.0	3.5	5.0	1.0	0.0	0.5	0.5	0.0	0.0
26	---	---	---	3.0	0.0	1.5	0.0	0.0	0.0	1.0	0.0	0.5
27	---	---	---	1.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
28	---	---	---	1.5	0.0	0.5	1.0	0.0	0.0	1.0	0.0	0.0
29	---	---	---	1.5	0.0	1.0	1.0	0.0	0.5	0.5	0.0	0.0
30	---	---	---	1.0	0.0	0.0	2.0	0.5	1.0	1.0	0.0	0.0
31	---	---	---	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
MONTH	---	---	---	11.0	0.0	5.0	4.0	0.0	1.0	2.5	0.0	0.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	0.5	1.5	6.5	2.5	4.5	---	---	---
2	0.0	0.0	0.0	2.0	0.5	1.0	5.0	3.5	4.0	---	---	---
3	0.0	0.0	0.0	2.5	0.5	1.0	---	---	---	---	---	---
4	0.0	0.0	0.0	2.5	0.5	1.0	---	---	---	---	---	---
5	0.0	0.0	0.0	2.5	0.5	1.5	---	---	---	---	---	---
6	0.0	0.0	0.0	3.0	0.5	1.5	---	---	---	---	---	---
7	0.0	0.0	0.0	3.5	1.0	2.0	---	---	---	---	---	---
8	0.5	0.0	0.0	3.5	1.0	2.5	---	---	---	14.0	11.0	13.0
9	0.0	0.0	0.0	2.0	0.5	1.0	---	---	---	15.5	9.5	12.5
10	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	16.0	11.0	13.5
11	0.0	0.0	0.0	2.5	1.0	1.5	---	---	---	17.0	11.0	14.0
12	0.0	0.0	0.0	2.0	1.5	1.5	---	---	---	17.0	12.0	14.5
13	0.5	0.5	0.5	4.0	1.5	2.5	---	---	---	15.5	13.0	14.0
14	0.5	0.5	0.5	2.0	0.5	1.5	---	---	---	15.5	13.0	14.0
15	0.5	0.5	0.5	1.5	0.5	1.0	---	---	---	16.5	12.0	14.5
16	1.0	0.5	0.5	4.0	1.0	2.0	---	---	---	15.0	13.0	14.0
17	1.0	0.5	1.0	5.5	1.0	3.0	---	---	---	16.0	12.0	14.0
18	1.5	0.5	1.0	5.5	1.0	3.5	---	---	---	16.0	12.0	14.0
19	2.0	1.0	1.5	5.5	2.0	4.0	---	---	---	17.5	13.0	15.5
20	2.5	0.5	1.5	6.0	5.0	5.5	---	---	---	20.0	14.5	17.0
21	2.5	1.0	1.5	6.5	3.0	4.5	---	---	---	20.0	16.5	18.0
22	3.0	0.5	2.0	4.0	2.5	3.5	---	---	---	16.5	14.5	15.5
23	2.5	2.0	2.0	8.0	2.5	5.0	---	---	---	19.0	13.5	16.5
24	2.0	1.0	1.5	5.5	3.0	4.5	---	---	---	19.5	16.5	18.0
25	2.5	1.0	1.5	8.0	4.5	6.0	---	---	---	16.5	14.5	15.0
26	3.5	1.5	2.0	6.5	2.0	5.0	---	---	---	16.0	12.5	14.5
27	3.0	1.0	1.5	4.0	1.0	2.0	---	---	---	17.0	14.5	15.5
28	3.0	0.5	1.5	5.0	1.0	2.5	---	---	---	18.0	14.0	15.5
29	---	---	---	4.5	1.5	3.0	---	---	---	17.5	14.0	15.5
30	---	---	---	5.5	3.5	4.0	---	---	---	17.0	13.5	15.5
31	---	---	---	6.0	2.0	4.0	---	---	---	17.5	14.0	16.0
MONTH	3.5	0.0	0.5	8.0	0.5	2.5	---	---	---	---	---	---

01096910 BOULDER BROOK AT EAST BOLTON, MASS.

LOCATION.--Lat 42°27'04", long 71°34'39", Worcester County, on right bank 900 ft (250 m) downstream from Interstate Highway 495, 0.9 mi (1.4 km) west of East Bolton, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--1.54 mi² (3.99 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (88 m) from topographic map.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1974: Drainage area.

REMARKS.--Records fair.

EXTREMES.--Period of record: Maximum discharge, 71 ft³/s (2.01 m³/s) Mar. 22, 1972 (gage height, 2.76 ft or 0.841 m), from rating curve extended above 19 ft³/s (0.54 m³/s); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 25-27, 1971, and about Aug. 13-17, 19-23, 1974.

Current year: Peak discharges above base of 28 ft³/s (0.79 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1645	*28 0.79	*2.47 0.753				

Minimum discharge, 0.03 ft³/s (0.001 m³/s) Aug. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.5	1.5	3.4	4.4	7.2	4.8	2.1	.65	.13	.05	.38
2	1.7	1.3	1.2	3.4	4.0	6.9	4.4	2.2	.60	.15	.03	.31
3	1.5	1.2	7.5	3.1	3.8	6.0	12	2.5	.46	.13	.03	.31
4	1.2	1.7	4.6	3.1	3.4	5.0	12	2.2	1.3	.12	.04	.28
5	1.1	2.2	3.8	2.9	3.6	4.4	7.8	2.2	.90	.09	.05	.22
6	.96	3.1	3.4	2.5	3.4	4.4	7.5	2.2	4.0	.08	.08	.22
7	.90	2.2	3.4	2.5	3.4	4.4	6.9	1.9	2.3	.17	1.1	.28
8	.83	1.9	5.3	2.5	3.4	4.4	6.0	1.9	1.4	.08	2.1	.25
9	.77	1.8	11	3.4	3.4	3.8	5.8	1.9	1.2	.08	1.7	.25
10	.71	1.6	5.8	4.6	3.4	3.8	5.5	1.8	.97	.08	.60	.20
11	.71	1.6	5.0	4.8	3.4	3.8	5.5	1.7	.77	.06	.38	.17
12	.71	1.6	5.0	6.0	3.4	3.8	5.0	1.6	1.1	.22	.28	.42
13	.71	1.9	4.8	7.8	3.2	4.8	4.6	2.9	2.1	.22	.25	.65
14	.60	2.0	4.6	7.2	2.9	4.6	4.4	2.6	1.8	.17	.20	.34
15	.60	1.8	4.6	5.5	2.8	4.0	4.0	2.1	1.3	.12	.17	.28
16	3.6	1.6	4.2	5.0	2.8	3.6	4.0	2.0	1.0	.09	.20	.25
17	5.5	1.6	8.8	4.6	2.8	4.2	3.8	1.8	.90	.07	.20	.25
18	2.5	1.6	6.0	4.2	2.8	4.6	3.6	1.5	.77	.05	.20	.25
19	1.9	1.5	5.3	7.5	3.1	4.6	3.6	1.4	.65	.04	.15	.22
20	1.7	1.6	5.0	6.0	3.6	12	3.4	1.3	.50	.06	.13	.22
21	1.5	2.8	4.8	4.4	3.2	7.5	3.1	1.0	.42	.90	.13	.22
22	1.4	2.3	4.8	4.4	2.9	6.0	2.8	.90	.34	.25	.12	.25
23	1.4	1.9	4.6	4.2	3.4	5.8	2.6	.90	.31	.15	.09	.71
24	1.3	1.8	4.2	4.0	8.8	5.3	2.9	.90	.28	.09	.12	3.1
25	1.3	1.8	4.2	5.0	12	6.9	3.1	.83	.25	.46	.15	6.3
26	1.3	1.8	4.0	9.2	9.9	5.8	3.1	.77	.25	.25	.15	4.2
27	1.3	1.8	3.8	6.3	8.8	4.8	2.8	.71	.20	.10	.13	7.2
28	1.1	1.7	3.8	5.0	7.5	4.4	2.6	.71	.17	.09	.10	3.8
29	1.1	1.7	3.6	5.5	---	4.4	2.3	.65	.17	.08	.09	2.3
30	1.1	1.6	3.4	6.9	---	6.0	2.1	.55	.15	.07	2.6	2.0
31	1.4	---	3.4	5.0	---	5.8	---	.65	---	.05	.77	---
TOTAL	44.60	54.5	156.2	149.9	123.5	163.0	142.0	48.37	27.21	4.70	12.39	35.83
MEAN	1.44	1.82	5.04	4.84	4.41	5.26	4.73	1.56	.91	.15	.40	1.19
MAX	5.5	3.1	12	9.2	12	12	12	2.9	4.0	.90	2.6	7.2
MIN	.60	1.2	1.5	2.5	2.8	3.6	2.1	.55	.15	.04	.03	.17
CFSM	.94	1.18	3.27	3.14	2.86	3.42	3.07	1.01	.59	.10	.26	.77
IN.	1.08	1.32	3.77	3.62	2.98	3.93	3.43	1.17	.66	.11	.30	.86

CAL YR 1974 TOTAL 946.39 MEAN 2.59 MAX 12 MIN .02 CFSM 1.68 IN 22.85
WTR YR 1975 TOTAL 962.20 MEAN 2.64 MAX 12 MIN .03 CFSM 1.71 IN 23.23

MERRIMACK RIVER BASIN

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: June 1971 to current year.

WATER TEMPERATURES: June 1971 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 754 micromhos Feb. 13, 1972; minimum, 68 micromhos June 27, 1973, Mar. 21, Sept. 29, 1974.

WATER TEMPERATURES: Maximum, 28.0°C June 30, 1971, June 23, 24, Aug. 2, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 545 micromhos Aug. 23; minimum, 71 micromhos Dec. 8.

WATER TEMPERATURES: Maximum, 28.0°C June 23, 24, Aug. 2; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	181	157	168	169	165	166	156	149	153	141	121	127
2	206	182	188	172	169	170	253	78	132	130	122	126
3	206	194	199	176	172	174	119	92	109	136	128	132
4	218	206	211	176	141	153	128	119	124	132	127	130
5	229	218	221	150	123	138	132	127	129	139	128	132
6	242	228	232	147	123	138	133	128	131	138	129	134
7	315	240	247	150	146	148	133	124	130	142	129	133
8	256	251	253	155	148	152	126	71	114	132	129	130
9	258	253	256	158	155	156	112	73	96	201	112	134
10	258	253	256	160	157	158	116	111	114	117	110	114
11	258	255	257	161	158	160	118	115	117	116	115	116
12	261	257	259	162	156	160	119	115	117	---	---	---
13	262	254	257	155	134	143	120	116	118	98	87	95
14	263	256	259	150	141	145	122	116	118	118	100	111
15	262	254	258	152	149	151	122	118	120	124	118	120
16	248	105	143	156	151	154	167	116	124	138	122	130
17	152	120	140	159	155	157	133	91	101	151	135	141
18	162	149	157	159	156	158	115	106	112	302	134	161
19	170	162	167	159	157	158	119	115	117	130	122	125
20	174	170	173	161	136	158	130	117	120	151	126	133
21	178	173	176	134	121	126	122	119	121	149	140	145
22	181	175	179	137	130	134	131	117	121	147	138	143
23	182	181	182	143	138	141	123	118	121	156	140	146
24	185	182	184	146	143	145	128	121	122	150	142	146
25	189	185	186	156	145	147	123	117	121	198	119	149
26	185	181	182	150	136	140	131	121	125	133	121	127
27	185	182	184	147	139	145	131	124	128	145	133	141
28	186	184	185	151	143	148	131	124	127	151	145	147
29	185	183	184	150	148	149	129	126	128	226	143	159
30	186	184	185	154	146	150	128	118	125	146	140	143
31	186	158	168	---	---	---	128	120	124	156	142	149
MONTH	315	105	203	176	121	151	253	71	121	302	87	134

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	158	146	151	131	117	121	137	132	135	158	153	155
2	159	144	154	125	120	123	141	135	139	159	130	151
3	165	148	155	128	122	125	156	90	126	151	136	144
4	164	152	154	136	122	128	115	99	109	151	114	146
5	158	151	155	139	120	130	138	111	123	146	139	144
6	152	146	149	132	124	129	126	119	122	149	145	146
7	147	145	147	131	123	127	125	120	123	156	149	152
8	148	144	146	127	122	125	131	122	125	157	155	157
9	150	142	146	146	124	134	132	126	129	162	156	158
10	162	146	150	144	130	136	137	129	132	165	159	161
11	151	142	147	142	130	135	140	135	137	169	162	164
12	149	142	146	174	132	139	144	136	140	172	156	166
13	161	144	148	132	120	125	140	138	139	161	113	142
14	150	142	146	133	124	130	143	139	140	146	136	141
15	150	142	145	140	130	136	144	141	143	154	147	150
16	145	141	142	159	124	137	147	142	144	160	145	152
17	145	139	143	138	118	128	151	145	147	162	149	152
18	176	139	152	137	121	129	151	145	148	168	160	162
19	177	140	153	136	124	130	151	147	149	175	168	170
20	149	143	145	145	105	117	150	148	149	188	174	178
21	148	142	145	129	114	122	155	149	150	195	184	188
22	151	137	143	131	127	129	154	150	152	197	186	192
23	141	127	136	132	128	129	155	151	152	201	185	190
24	140	79	108	134	118	129	164	140	150	207	201	204
25	98	82	91	127	118	123	144	136	141	215	208	211
26	113	99	107	133	129	131	150	144	147	221	213	218
27	116	109	111	143	130	136	152	148	150	230	222	227
28	119	115	117	148	131	137	153	149	152	224	214	217
29	---	---	---	139	132	135	155	153	154	248	220	236
30	---	---	---	138	117	127	154	151	153	267	249	259
31	---	---	---	140	116	129	---	---	---	258	206	222
MONTH	177	79	141	174	105	129	164	90	140	267	113	176
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	222	212	219	388	378	383	420	404	410	381	325	352
2	236	215	222	410	356	390	425	415	421	405	379	394
3	253	238	247	409	393	403	425	422	424	417	402	407
4	241	162	189	414	398	404	425	418	422	433	413	423
5	196	173	183	422	396	406	423	374	414	438	427	433
6	196	90	127	428	404	415	412	282	390	437	407	429
7	144	115	128	428	323	389	282	153	185	416	403	409
8	153	144	147	441	360	417	215	101	168	433	412	422
9	165	148	153	453	329	412	466	127	168	438	424	429
10	184	164	169	445	333	406	271	203	234	436	429	432
11	208	184	190	460	410	424	325	286	306	436	425	429
12	211	120	181	459	261	350	369	339	357	446	229	403
13	130	119	124	317	263	292	404	382	396	307	235	262
14	150	128	137	309	263	284	438	414	426	369	313	347
15	167	150	154	362	313	338	464	447	453	397	370	385
16	181	165	169	403	364	382	474	471	472	414	398	408
17	186	179	182	400	386	391	488	483	486	421	415	417
18	200	187	190	415	395	404	503	498	500	423	415	420
19	217	201	209	426	408	416	522	506	512	425	413	420
20	246	216	223	427	395	410	542	523	528	415	402	409
21	273	248	261	387	117	190	539	522	529	408	397	405
22	294	274	284	279	194	242	543	526	533	407	398	402
23	313	294	306	352	282	313	545	536	539	409	240	311
24	329	313	321	447	352	370	541	499	521	226	130	169
25	350	331	345	371	180	203	513	503	510	145	124	136
26	368	352	363	291	199	228	510	505	508	171	143	158
27	365	356	360	349	297	329	515	501	507	157	127	141
28	365	356	361	374	349	360	516	503	507	184	158	171
29	370	360	364	392	372	379	511	505	508	203	185	192
30	388	360	376	401	388	394	493	175	245	218	203	209
31	---	---	---	411	390	398	324	228	276	---	---	---
MONTH	388	90	229	460	117	359	545	101	415	446	124	344
YEAR	545	71	213									

MERRIMACK RIVER BASIN

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	9.0	10.5	14.5	7.0	12.0	1.0	0.5	0.5	1.5	0.5	1.0
2	12.0	9.0	10.5	11.5	6.0	9.5	2.0	0.5	1.0	1.0	0.5	0.5
3	10.5	7.0	9.0	10.0	6.0	8.0	2.5	1.5	2.0	0.5	0.5	0.5
4	10.5	6.0	7.5	12.0	8.0	10.5	1.5	0.5	0.5	1.0	0.5	0.5
5	12.0	6.5	9.0	10.5	9.0	9.5	0.5	0.5	0.5	0.5	0.5	0.5
6	14.5	8.5	11.0	10.0	8.5	9.5	1.0	0.5	0.5	0.5	0.5	0.5
7	15.0	10.0	12.0	8.0	6.5	8.0	1.0	0.5	0.5	0.5	0.5	0.5
8	11.5	7.0	8.5	8.5	6.0	7.0	5.0	1.5	3.0	0.5	0.5	0.5
9	11.5	6.0	8.0	8.5	5.0	6.5	5.0	2.5	4.0	0.5	0.5	0.5
10	11.5	6.0	8.5	7.5	4.5	5.5	2.0	0.5	1.5	1.0	0.0	0.5
11	11.0	5.5	8.0	7.0	3.0	5.0	2.0	0.5	1.0	1.0	0.5	1.0
12	11.5	6.0	8.5	8.0	6.5	7.0	2.5	0.5	1.5	---	---	---
13	11.5	5.5	9.0	9.0	5.5	8.0	3.0	0.5	2.0	0.5	0.5	0.5
14	10.5	5.0	8.5	8.0	4.0	6.0	3.5	2.0	3.0	0.5	0.5	0.5
15	14.0	7.5	11.5	7.0	4.0	6.0	2.0	0.5	1.0	0.5	0.5	0.5
16	10.0	8.5	9.0	5.5	2.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5
17	10.0	8.0	9.0	5.0	2.0	3.5	3.0	0.5	2.0	0.5	0.5	0.5
18	9.0	4.0	7.0	6.0	2.0	3.5	2.0	0.5	1.5	0.5	0.5	0.5
19	7.0	3.5	5.0	6.5	2.5	4.0	1.5	0.5	1.0	0.5	0.5	0.5
20	6.5	3.0	4.5	6.0	4.0	5.5	2.5	0.5	1.5	0.5	0.5	0.5
21	6.0	2.5	4.0	6.5	4.0	6.0	2.0	1.0	1.5	0.5	0.5	0.5
22	8.0	2.5	5.0	4.0	1.0	2.5	2.5	0.5	2.0	0.5	0.5	0.5
23	9.5	4.5	7.0	2.5	0.5	1.0	2.0	0.5	1.0	0.5	0.5	0.5
24	8.0	4.0	6.0	5.5	1.0	3.5	2.5	1.0	1.5	1.0	0.5	0.5
25	7.5	3.5	6.0	8.0	3.5	5.5	1.0	0.5	0.5	0.5	0.5	0.5
26	8.5	5.5	6.5	3.0	0.5	1.5	0.5	0.5	0.5	1.5	0.5	0.5
27	8.0	2.5	5.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
28	7.0	1.5	4.0	2.0	0.5	0.5	1.0	0.5	0.5	1.0	0.5	0.5
29	10.0	3.5	6.5	2.5	0.5	1.0	1.0	0.5	0.5	1.5	0.5	1.0
30	11.0	6.5	9.0	1.5	0.5	0.5	2.5	0.5	1.0	1.0	1.0	1.0
31	12.5	9.5	11.0	---	---	---	1.0	0.5	0.5	1.0	1.0	1.0
MONTH	15.0	1.5	8.0	14.5	0.5	5.5	5.0	0.5	1.5	1.5	0.0	0.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	1.0	1.0	3.5	2.0	2.5	7.5	2.0	4.0	16.0	7.5	11.5
2	1.5	1.5	1.5	3.0	2.0	2.0	7.5	2.5	5.0	10.5	9.0	10.0
3	1.5	1.5	1.5	3.0	2.0	2.0	6.0	4.5	5.0	16.5	8.0	12.0
4	1.5	1.5	1.5	3.0	2.0	2.0	4.5	2.0	3.0	10.5	9.0	10.0
5	1.5	1.5	1.5	3.5	2.0	2.0	4.5	1.5	3.0	10.0	7.5	8.5
6	1.5	1.5	1.5	4.0	2.0	2.5	6.0	2.5	4.0	16.5	7.5	11.0
7	1.5	1.5	1.5	5.0	2.0	3.0	7.0	2.5	4.5	16.0	10.0	12.5
8	1.5	1.5	1.5	4.5	2.0	3.0	8.5	2.5	5.0	16.5	10.0	12.5
9	1.5	1.5	1.5	2.5	2.0	2.0	7.5	3.0	4.5	18.5	7.0	12.0
10	1.5	1.5	1.5	2.0	2.0	2.0	10.0	2.0	5.5	19.0	9.0	13.5
11	2.0	2.0	2.0	3.5	2.0	2.5	11.0	3.5	7.0	20.0	9.0	13.5
12	2.0	2.0	2.0	3.0	2.0	2.0	10.0	3.5	6.5	20.0	10.5	14.0
13	2.0	2.0	2.0	5.5	2.0	3.0	8.0	3.5	6.0	16.0	12.0	14.0
14	2.0	2.0	2.0	2.0	2.0	2.0	11.5	3.0	6.5	18.5	12.0	14.0
15	2.0	2.0	2.0	2.0	2.0	2.0	9.5	4.5	7.0	19.0	10.5	14.5
16	2.0	2.0	2.0	5.5	2.0	3.0	11.5	5.5	8.0	17.0	12.5	14.0
17	2.0	2.0	2.0	7.0	1.5	3.5	14.0	6.0	9.0	20.0	10.5	14.5
18	3.0	2.0	2.5	7.5	1.5	4.0	12.0	6.0	9.0	20.5	10.5	14.5
19	4.0	2.5	2.5	6.5	2.0	4.5	12.0	9.5	10.5	21.5	12.0	16.0
20	4.5	2.5	3.0	6.5	5.5	6.5	11.5	8.0	9.5	24.0	13.0	17.5
21	4.5	2.5	3.0	8.0	2.5	5.0	12.5	6.0	8.5	22.5	15.5	18.5
22	5.5	2.5	3.5	4.0	2.0	3.5	13.5	4.0	8.0	18.0	13.5	15.0
23	4.0	3.0	3.0	9.0	2.5	5.5	15.5	5.5	9.5	24.0	12.5	17.5
24	3.0	2.5	2.5	5.5	3.0	4.5	11.0	8.5	9.5	24.0	15.5	19.0
25	4.0	2.5	3.0	8.5	4.5	6.0	12.0	9.0	10.5	19.0	12.0	15.0
26	5.0	2.5	3.5	7.0	1.5	5.5	14.0	8.5	10.5	21.0	9.5	14.5
27	4.5	2.0	3.0	4.5	1.5	2.0	10.0	6.5	8.0	20.5	13.0	16.0
28	4.5	2.0	3.0	6.0	1.5	3.0	11.0	6.0	8.0	23.0	12.0	16.5
29	---	---	---	4.5	1.5	3.0	13.5	4.5	8.5	24.0	11.5	16.5
30	---	---	---	5.5	3.5	4.0	16.5	5.0	10.5	20.5	11.0	15.5
31	---	---	---	7.0	1.5	3.5	---	---	---	20.5	14.0	17.0
MONTH	5.5	1.0	2.0	9.0	1.5	3.5	16.5	1.5	7.0	24.0	7.0	14.0

MERRIMACK RIVER BASIN

01097000 ASSABET RIVER AT MAYNARD, MASS.

LOCATION.--Lat 42°25'55", long 71°27'01", Middlesex County, on right bank at Maynard, 150 ft (46 m) upstream from bridge on State Highway 27, 1.7 mi (2.7 km) downstream from Assabet Brook, and 7.1 mi (11.4 km) upstream from confluence with Sudbury River.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--Discharge: July 1941 to current year.

Chemical analyses: Water years 1954, 1967-74 (partial-record station).

Water temperatures: Water years 1967-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 142.12 ft (43.318 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1231: 1945-46.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1969. High flow affected by retarding reservoirs since 1962.

AVERAGE DISCHARGE.--34 years, 182 ft³/s (5.154 m³/s), 21.31 in/yr (541 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,250 cfs (120 m³/s) Aug. 20, 1955 (gage height, 8.94 ft or 2.725 m); maximum gage height, 8.96 ft (2.731 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 0.20 cfs (0.006 m³/s) Feb. 7, 1965.

Maximum discharge since at least 1886, that of Aug. 20, 1955.

Current year: Maximum discharge, 1,030 ft³/s (29.2 m³/s) Feb. 26 (gage height, 5.02 ft or 1.530 m); minimum daily, 18 ft³/s (0.51 m³/s) July 4-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	124	117	196	336	548	323	145	67	27	28	122
2	405	122	194	198	285	476	293	145	69	30	25	94
3	276	115	361	190	249	421	320	155	63	25	22	67
4	203	117	425	180	218	364	519	164	76	18	20	57
5	167	124	346	171	203	322	651	169	93	18	21	51
6	141	150	265	156	213	296	578	171	153	18	25	44
7	122	182	226	158	211	286	487	156	209	20	75	43
8	105	176	231	156	210	305	415	146	220	22	113	44
9	96	158	331	183	204	284	367	130	177	21	150	39
10	89	145	432	228	195	261	331	124	135	23	149	35
11	84	134	404	272	199	242	304	117	108	22	136	36
12	83	130	334	338	190	237	281	110	103	40	99	42
13	80	138	283	453	190	263	259	136	132	60	71	64
14	78	145	265	545	180	284	241	206	162	60	58	59
15	78	147	249	500	175	289	227	240	166	59	46	53
16	127	140	238	428	170	265	222	240	143	50	43	50
17	267	132	302	359	169	268	214	210	119	43	40	47
18	336	128	369	297	172	286	192	180	103	40	40	44
19	289	123	365	359	179	288	186	152	90	36	34	44
20	220	123	315	433	197	382	191	135	84	34	30	48
21	176	158	274	385	204	529	180	121	77	67	26	48
22	150	185	256	345	202	552	173	110	66	57	26	47
23	137	180	248	302	217	471	165	102	56	76	25	64
24	127	160	237	273	346	405	166	93	50	60	26	129
25	121	149	232	283	737	401	187	85	44	54	27	231
26	119	154	223	405	996	409	191	77	40	49	29	295
27	113	147	210	474	863	379	178	70	32	43	34	330
28	107	136	201	423	666	325	166	68	30	42	34	306
29	103	128	191	370	---	292	155	62	28	37	29	259
30	98	123	186	374	---	301	147	58	25	31	103	191
31	109	---	187	378	---	329	---	63	---	27	139	---
TOTAL	5176	4273	8497	9812	8376	10760	8309	4140	2920	1219	1723	2983
MEAN	167	142	274	317	299	347	277	134	97.3	39.3	55.6	99.4
MAX	570	185	432	545	996	552	651	240	220	76	150	330
MIN	78	115	117	156	169	237	147	58	25	18	20	35
CFSM	1.44	1.22	2.36	2.73	2.58	2.99	2.39	1.16	.84	.34	.48	.86
IN.	1.66	1.37	2.72	3.15	2.69	3.45	2.66	1.33	.94	.39	.55	.96
CAL YR 1974	TOTAL	75377	MEAN 207	MAX 806	MIN 14	CFSM 1.78	IN 24.17					
WTR YR 1975	TOTAL	68188	MEAN 187	MAX 996	MIN 18	CFSM 1.61	IN 21.87					

MERRIMACK RIVER BASIN

45

01097300 NASHOBA BROOK NEAR ACTON, MASS.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, on right bank 1,500 ft (450 m) downstream from dam at North Acton, 2.2 mi (3.5 km) northeast of Acton, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--12.7 mi² (32.9 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-63. July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation since 1967 by small pond above station.

AVERAGE DISCHARGE.--12 years, 18.3 ft³/s (0.518 m³/s), 19.57 in/yr (497 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 360 ft³/s (10.2 m³/s) Mar. 19, 1968 (gage height, 5.07 ft or 1.545 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 6, 1968.

Current year: Peak discharge above base of 90 ft³/s (2.55 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	1415	107 3.03	3.69 1.125	Feb. 25	1400	*184 5.21	*4.16 1.268
Jan. 14	1900	92 2.61	3.54 1.079	Apr. 4	1145	129 3.65	3.86 1.177

Minimum discharge, 0.38 ft³/s (0.011 m³/s) Aug. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	12	10	23	37	67	52	18	6.0	1.7	.76	11
2	4.6	12	30	26	32	55	50	18	6.4	1.5	.64	6.0
3	2.8	11	93	24	27	44	56	20	6.0	1.4	.54	4.7
4	19	11	91	22	24	39	112	22	6.2	1.2	.43	4.1
5	15	15	61	21	21	35	111	22	8.2	1.1	.54	3.7
6	13	26	44	18	21	33	96	20	13	.97	.59	3.4
7	11	30	34	18	22	32	88	17	32	.83	3.2	3.1
8	4.7	25	34	16	22	35	80	15	28	.83	11	2.7
9	4.5	20	61	23	22	35	67	13	17	.83	21	2.4
10	8.0	16	74	36	21	33	60	13	12	.83	17	2.1
11	7.6	14	61	50	21	32	53	12	9.2	.83	8.0	2.0
12	7.2	13	47	65	20	32	49	12	7.6	1.2	5.3	1.9
13	7.0	14	41	82	20	39	40	18	12	2.7	4.1	2.7
14	7.0	16	38	86	20	46	43	35	17	3.4	3.3	3.9
15	6.6	16	35	80	19	43	38	35	15	3.2	2.8	3.8
16	13	14	33	56	19	40	37	26	11	2.7	2.5	3.6
17	45	13	47	42	19	42	36	22	8.5	2.0	2.0	3.2
18	56	11	66	36	19	45	33	18	7.4	1.5	1.6	2.8
19	41	11	57	40	20	47	30	14	6.4	1.1	1.8	2.7
20	28	11	46	50	22	68	31	13	5.4	.97	1.6	2.7
21	21	16	39	43	24	88	28	10	4.4	2.0	1.6	2.7
22	17	23	35	36	22	83	26	8.2	4.0	3.2	1.5	2.7
23	15	20	34	32	25	74	24	8.2	3.7	3.3	1.5	2.8
24	14	16	32	30	50	68	24	8.2	3.6	2.7	1.5	7.5
25	13	15	31	32	165	67	28	7.4	3.3	2.1	1.5	33
26	12	15	29	53	152	63	30	6.6	2.8	2.2	1.5	51
27	11	15	26	60	100	57	27	6.4	2.4	2.3	1.5	48
28	11	13	24	50	81	53	25	6.4	2.2	1.9	1.5	50
29	10	12	23	41	---	52	22	6.2	2.0	1.4	1.5	40
30	9.4	11	23	42	---	53	20	5.6	1.8	1.1	1.8	25
31	10	---	23	42	---	53	---	5.8	---	.90	16	---
TOTAL	603.5	467	1327	1275	1067	1553	1416	462.0	264.5	53.89	120.10	335.2
MEAN	19.5	15.6	42.8	41.1	38.1	50.1	47.2	14.9	8.82	1.74	3.87	11.2
MAX	83	30	93	86	165	88	112	35	32	3.4	21	51
MIN	6.6	11	10	16	19	32	20	5.6	1.8	.83	.43	1.9
CFSM	1.54	1.23	3.37	3.24	3.00	3.94	3.72	1.17	.69	.14	.30	.88
IN.	1.77	1.37	3.89	3.73	3.13	4.55	4.15	1.35	.77	.16	.35	.98

CAL YR 1974	TOTAL	8053.03	MEAN 22.1	MAX 109	MIN .21	CFSM 1.74	IN 23.59
WTR YR 1975	TOTAL	8944.19	MEAN 24.5	MAX 165	MIN .43	CFSM 1.93	IN 26.20

MERRIMACK RIVER BASIN

01097500 SUDBURY RIVER AT FRAMINGHAM CENTER, MASS.

LOCATION.--Lat 42°17'29", long 71°26'35", Middlesex County, at dam of Framingham Reservoir No. 1, 0.5 mi (0.8 km) upstream from outlet of Farm Pond and 0.8 mi (1.3 km) southwest of Framingham Center.

DRAINAGE AREA.--75.2 mi² (194.8 km²) since January 1881.

PERIOD OF RECORD.--Discharge: January 1875 to current year.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

REVISIONS (WATER YEARS).--WSP 1051: 1937.

REMARKS.--Records adjusted for change in reservoir contents, diversions, and wastage. Flow diverted as needed for use of Boston metropolitan district. Part of flow from Wachusett Reservoir on South Branch Nashua River is diverted into Sudbury Reservoir en route to Boston metropolitan district.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

AVERAGE DISCHARGE.--100 years, 114 ft³/s (3.228 m³/s), 20.59 in/yr (523 mm/yr), adjusted to present drainage area.

MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, AND RAINFALL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Mean	Per square mile	Runoff in inches	Rainfall in inches
October.....	127	1.69	1.95	3.21
November.....	98.1	1.30	1.46	1.78
December.....	190	2.53	2.92	5.13
Calendar year 1974.....	141	1.88	25.39	47.14
January.....	295	3.92	4.53	5.08
February.....	234	3.11	3.24	3.88
March.....	229	3.05	3.52	2.74
April.....	182	2.42	2.71	2.14
May.....	77.5	1.03	1.19	2.47
June.....	47.4	.63	.70	2.39
July.....	-1.53	-.02	-.02	2.09
August.....	25.0	.33	.38	5.86
September.....	81.1	1.08	1.20	7.11
Water year 1975.....	132	1.76	23.77	43.88

NOTE.--Negative figures indicate that evaporation and seepage from reservoirs exceeded inflow.

01099500 CONCORD RIVER BELOW RIVER MEADOW BROOK AT LOWELL, MASS.

LOCATION.--Lat 42°38'12", long 71°18'09", Middlesex County, on right bank 300 ft (90 m) downstream from Rogers Street Bridge at Lowell, 0.3 mi (0.5 km) downstream from River Meadow Brook, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--Total above gage, 405 mi² (1,049 km²); net above gage, 312 mi² (808 km²) - diversion as needed from 92.6 mi² (239.8 km²) for use of Boston metropolitan district.

PERIOD OF RECORD.--Discharge: October 1936 to current year. October, November 1936 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1953, 1967-74 (partial-record station).

Water temperatures: Water years 1967-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 67.41 ft (20.547 m) above mean sea level, datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Daily discharge includes water released from 92.6 mi² (239.8 km²) in basins of Sudbury River and Lake Cochituate. Prior to December 1961, water diverted above station for use of city of Lowell. Low flow regulated by mills above station.

AVERAGE DISCHARGE.--39 years, 457 ft³/s (12.94 m³/s), 19.89 in/yr (505 mm/yr), adjusted to net drainage area.

EXTREMES.--Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Mar. 22, 1968 (gage height, 9.16 ft or 2.792 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 29, 1957.

Current year: Maximum discharge, 1,770 ft³/s (50.1 m³/s) Feb. 27 (gage height, 6.74 ft or 2.054 m); minimum daily, 40 ft³/s (1.13 m³/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	330	440	724	1200	1740	1120	528	215	104	52	278
2	840	340	545	715	1140	1670	1090	499	208	104	46	266
3	740	350	860	706	1080	1580	1120	479	201	95	41	229
4	630	400	919	700	1020	1470	1290	472	212	87	40	192
5	520	450	470	676	950	1370	1370	473	229	81	52	162
6	410	480	985	647	906	1280	1460	494	332	71	50	148
7	350	510	922	632	908	1200	1510	503	440	65	118	133
8	310	538	911	645	888	1130	1490	494	478	63	215	115
9	240	547	1010	693	870	1070	1440	474	494	61	349	106
10	250	543	1050	795	790	1030	1390	449	478	63	390	97
11	240	531	1080	867	800	983	1330	430	430	89	385	91
12	230	515	1080	995	790	953	1260	404	394	115	344	100
13	220	520	1050	1130	770	953	1200	460	414	148	294	125
14	210	515	1000	1250	760	942	1140	597	435	162	236	146
15	205	501	962	1320	760	935	1100	594	445	154	177	146
16	300	474	924	1350	750	946	1040	626	450	135	138	135
17	600	434	1010	1330	737	943	993	626	425	118	115	123
18	640	405	1030	1280	736	952	958	609	385	100	100	115
19	650	372	1030	1320	758	951	923	579	336	89	87	113
20	640	357	1020	1340	806	1070	884	542	290	77	75	111
21	560	402	990	1350	825	1210	834	496	259	135	70	108
22	500	449	958	1300	830	1290	804	451	232	125	63	106
23	450	498	932	1260	857	1340	765	419	205	125	55	138
24	410	512	902	1200	1020	1350	735	371	183	120	61	274
25	390	501	873	1170	1400	1360	724	323	160	118	68	502
26	390	493	842	1290	1590	1330	703	298	146	97	73	637
27	360	495	812	1300	1730	1270	678	270	133	89	75	779
28	350	486	782	1300	1770	1230	644	251	125	81	70	840
29	330	472	760	1290	---	1190	613	232	115	70	58	863
30	320	458	742	1280	---	1160	565	222	102	65	168	851
31	320	---	724	1240	---	1150	---	218	---	58	243	---
TOTAL	13535	13890	24146	33096	27441	37048	31173	13883	8951	3064	4308	8029
MEAN	437	463	908	1068	980	1195	1039	448	298	98.8	139	268
MAX	890	544	1080	1350	1770	1740	1510	626	494	162	390	863
MIN	205	330	440	632	736	935	565	218	102	58	40	91
MEAN†	339	324	686	774	656	939	828	360	236	89.2	122	213
CFSM†	1.09	1.04	2.20	2.48	2.10	3.01	2.65	1.15	.76	.29	.39	.68
IN.†	1.25	1.16	2.54	2.86	2.19	3.47	2.96	1.33	.84	.33	.45	.76
CAL YR 1974 TOTAL	247136											
WTR YR 1975 TOTAL	222564											
MEAN 677												
MAX 1620												
MIN 41												
MEAN† 506												
463												
CFSM† 1.62												
1.48												
IN† 22.03												
20.15												

† Adjusted for water released from 92.6 mi² in basins of Sudbury River and Lake Cochituate (figures represent net discharge from net drainage area). Records of released water furnished by Water Division of Metropolitan District Commission.

NOTE.--No gage-height record Oct. 1 to Nov. 7.

MERRIMACK RIVER BASIN

01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.

LOCATION.--Lat 42°38'45", long 71°17'56", Middlesex County, on right bank at Lowell, 1,100 ft (350 m) downstream from Concord River.

DRAINAGE AREA.--Total above gage, 4,635 mi² (12,005 km²); net above gage, 4,425 mi² (11,461 km²) - diversions as needed from 210 mi² (544 km²) for use of Boston metropolitan district and city of Worcester.

PERIOD OF RECORD.--Discharge: June 1923 to current year.

Chemical analyses: Water years 1954, 1966-74 (partial-record station).

Water temperatures: January 1966 to September 1967, water years 1968-74 (partial-record station).

Sediment records: April 1967 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is 5.18 ft (1.579 m) above mean sea level. Prior to Mar. 7, 1934, at Boott Mills, 1,800 ft (550 m) upstream and 700 ft (200 m) above mouth of Concord River, in same gage pool and at same datum; gage-height record (furnished by Proprietors of the Locks and Canals on Merrimack River) was indicative of flow including that of Concord River.

REMARKS.--Records excellent. Daily discharge includes water released from 210 mi² (544 km²) in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnepesaukee, Winnisquam, and other lakes and reservoirs above station.

AVERAGE DISCHARGE.--52 years, 7,203 ft³/s (204.0 m³/s) 22.11 in/yr (562 mm/yr), adjusted for water released from 210 mi² (544 km²).

EXTREMES.--Period of record: Maximum discharge, 173,000 ft³/s (4,900 m³/s) Mar. 20, 1936 (gage height, 68.4 ft or 20.85 m, from floodmarks); minimum daily, 199 ft³/s (5.64 m³/s) Sept. 23, 1923.

Maximum discharge since 1735, that of Mar. 20, 1936.

Current year: Maximum discharge, 35,000 ft³/s (991 m³/s) Mar. 22 (gage height, 49.79 ft or 15.176 m); minimum daily, 470 ft³/s (13.3 m³/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6660	2660	4840	6530	8840	15400	15900	12900	2660	1840	2250	2450
2	7430	2420	5850	6950	9110	13800	14800	12200	3650	1430	1460	3260
3	5350	2790	7030	6510	8150	12300	14200	12500	3490	1800	844	2470
4	5080	3010	8750	6110	6830	10700	24500	13100	3920	992	1750	2890
5	4500	3350	8650	5950	7020	9930	30700	13200	4210	1690	1940	2870
6	3510	4300	7190	5910	6840	8920	27000	13200	5370	1510	1700	2100
7	3140	5090	6410	5510	6970	8560	23400	11600	7620	2090	1630	2180
8	3000	5440	6290	5660	6810	8300	20400	10600	9240	1780	1950	2890
9	2810	5380	9360	6090	6940	8020	18600	9660	9200	1800	1830	2720
10	2690	4870	18700	6650	6440	7740	16600	8700	9080	1410	2970	2610
11	2650	4530	19000	7580	6290	7670	14900	8410	6430	1370	4010	2560
12	2150	3880	14900	7400	6210	7490	14100	8370	5300	1320	3490	2360
13	2300	3760	11800	9080	6130	7570	13800	8320	6260	470	3450	1780
14	2790	4060	10500	10600	6160	7860	13800	9650	9190	3620	3010	1830
15	2410	4960	9570	10700	5770	7610	13500	10600	14600	6650	2800	2670
16	2660	5000	8850	10600	5660	7510	13100	9780	12200	9120	1870	2450
17	3150	5140	9390	9440	5770	7830	13300	8800	9400	9060	1660	2260
18	4760	4660	9270	7870	5580	7510	14300	7790	7970	7710	2400	2220
19	4850	4320	9740	7980	5740	8540	16600	7720	6530	5900	1890	2410
20	5100	4440	9690	8150	5990	11000	20100	6360	5700	5280	1570	1880
21	4600	5290	9110	7680	6410	24000	24100	5700	4380	5370	1290	1620
22	4240	8020	8420	7710	6580	34200	23900	5730	3950	4410	1260	2850
23	4000	12000	7890	7880	6250	31900	20800	5800	3980	3600	795	3000
24	3890	10900	7220	7610	7110	26200	18300	5200	3160	4480	801	4120
25	3620	9100	7400	7280	11400	22900	18000	4680	3000	4220	2030	5270
26	3360	8150	7270	6480	16500	23500	19900	4310	3030	2610	1700	6330
27	3130	7390	6670	10300	18100	23100	20400	4540	3030	2480	1330	10400
28	3230	6710	6190	11200	17100	21000	19200	3720	1620	3580	1490	16200
29	3080	6070	6430	11400	---	17800	16700	3260	1080	3570	1400	18000
30	2820	6040	6740	11200	---	16400	14800	3290	2120	2630	1170	14900
31	2760	---	6440	10600	---	16400	---	2490	---	2600	2080	---
TOTAL	115720	163770	275560	254150	222740	441660	550100	252180	170370	107232	60225	131750
MEAN	3733	5459	8889	8198	7955	14250	18340	8135	5679	3459	1943	4392
MAX	7430	12000	19000	11400	18100	34200	30700	13200	14600	9120	4010	18000
MIN	2150	2420	4440	5510	5580	7490	13100	2490	1080	470	795	1620
MEAN†	3627	5313	8660	7898	7623	13980	18120	8040	5610	3442	1918	4330
CFSM†	.82	1.20	1.96	1.78	1.72	3.16	4.09	1.82	1.27	.78	.43	.98
IN.†	.95	1.34	2.26	2.06	1.79	3.64	4.57	2.10	1.41	.90	.50	1.09
CAL YR 1974 TOTAL	3022602		MEAN 8281	MAX 29400	MIN 559		MEAN† 8103	CFSM† 1.83	IN† 24.86			
WTR YR 1975 TOTAL	2745457		MEAN 7522	MAX 34200	MIN 470		MEAN† 7368	CFSM† 1.67	IN† 22.61			

† Adjusted for water released from 210 mi² in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate (figures represent net discharge from net drainage area). Records of released water furnished by Water Division of Metropolitan District Commission.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01100600 SHAWSHEEN RIVER NEAR WILMINGTON, MASS.

LOCATION.--Lat 42°34'05", long 71°12'55", Middlesex County, on right bank at downstream side of bridge on State Highway 129, 1 mi (1.6 km) upstream from Content Brook, and 2.5 mi (4.0 km) northwest of Wilmington.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

PERIOD OF RECORD.--Discharge: November 1963 to current year.

Chemical analyses: Water year 1973 (partial-record station).

Water temperatures: Water year 1973 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft (24.518 m) above mean sea level.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1974: Drainage area.

REMARKS.--Records good except those for period of doubtful gage-height record, which are fair. Diversion above station at times during period January through June each year since 1973 for municipal supply of Burlington.

AVERAGE DISCHARGE.--11 years (1964-75), 54.1 ft³/s (1.532 m³/s), 20.81 in/yr (529 mm/yr), adjusted for diversion.

EXTREMES.--Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Mar. 19, 1968 (gage height, 8.60 ft or 2.621 m); minimum, 1.2 ft³/s (0.034 m³/s) Aug. 30, 31, Sept. 1, 2-4, 1966.

Current year: Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	2000	*400 11.3	*6.17 1.881				
Minimum discharge, 3.1 ft ³ /s (0.088 m ³ /s) June 25.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	64	28	44	73	107	81	36	24	9.4	12	87
2	101	31	42	49	61	100	74	37	22	9.5	10	74
3	62	28	183	45	52	96	70	42	20	9.5	8.7	46
4	34	24	225	40	47	83	182	42	25	8.7	9.3	33
5	31	34	134	35	33	73	215	42	32	8.0	15	29
6	27	50	91	31	35	65	159	42	41	7.4	17	25
7	25	56	65	32	37	61	135	39	65	6.9	44	26
8	24	50	54	46	43	59	116	37	72	7.1	72	23
9	22	41	65	56	44	58	100	35	51	7.3	97	22
10	21	35	94	102	36	53	89	34	33	7.9	118	21
11	21	32	104	155	36	50	79	34	27	36	97	20
12	20	31	81	166	35	50	72	32	26	57	70	20
13	20	32	66	175	34	56	66	42	42	61	45	41
14	20	36	56	196	34	63	61	88	48	60	35	51
15	20	34	51	164	33	66	57	86	43	45	28	41
16	35	32	47	118	32	62	54	67	33	32	25	29
17	99	30	56	92	33	61	52	50	27	26	23	25
18	140	24	43	76	34	67	50	40	25	22	22	21
19	111	24	111	92	35	69	48	32	21	20	20	20
20	40	27	89	131	43	85	49	28	18	19	17	20
21	53	37	71	105	45	191	48	24	16	30	15	20
22	40	48	59	90	45	163	45	20	14	47	15	20
23	36	48	54	73	48	115	43	19	14	34	15	25
24	34	41	53	62	40	94	44	18	9.3	25	14	53
25	32	36	52	60	324	91	54	16	5.1	23	20	92
26	30	36	49	97	322	97	55	16	9.4	24	20	146
27	27	37	46	136	196	90	51	21	7.7	19	19	154
28	26	35	44	105	132	77	47	21	8.8	16	17	168
29	26	32	43	84	---	67	44	19	9.8	15	16	149
30	26	30	42	80	---	65	41	11	9.9	14	36	109
31	24	---	42	82	---	73	---	16	---	13	76	---
TOTAL	1450	1083	2245	2420	2007	2507	2281	1088	799.0	719.7	1050.0	1615
MEAN	46.8	35.1	74.0	91.0	71.7	80.9	76.0	35.1	26.6	23.2	33.9	53.8
MAX	175	56	225	196	324	191	215	88	72	61	118	168
MIN	20	27	28	31	32	50	41	11	5.1	6.9	8.7	20
MEAN†	46.8	36.1	74.0	101	73.5	80.9	76.0	38.7	27.1	23.2	33.9	53.8
CFSM†	1.33	1.02	2.10	2.86	2.08	2.29	2.15	1.10	.77	.66	.96	1.52
IN†	1.53	1.14	2.42	3.30	2.17	2.64	2.40	1.27	.86	.76	1.11	1.70
CAL YR 1974 TOTAL	14745.4											
WTR YR 1975 TOTAL	14714.7											
MEAN 54.2												
MEAN 54.0												
MAX 298												
MAX 324												
MIN 5.0												
MIN 5.1												
MEAN† 55.5												
MEAN† 54.0												
CFSM† 1.57												
CFSM† 1.53												
IN† 21.36												
IN† 21.30												

† Adjusted for diversion for municipal supply of Burlington; records furnished by town of Burlington.

NOTE.--Doubtful gage-height record Feb. 10 to Mar. 12.

MERRIMACK RIVER BASIN

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.

LOCATION.--Lat 42°48'38", long 71°00'02", Essex County, multiple-parameter monitor at Bridge Street Bridge, 0.9 mi (1.4 km) northwest of West Newbury.

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1968 to current year (no winter records in water year 1973).
WATER TEMPERATURES: October 1968 to current year (no winter records in water year 1973).

INSTRUMENTATION.--Four-parameter water-quality monitor.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, greater than 1,000 micromhos Aug. 17, 18, 20, 1970, Sept. 7, Oct. 4, 6, 7, 1971, Aug. 19, 1973; minimum, 40 micromhos July 2, 1973.

pH: Maximum, 8.6 Oct. 10, 1970; minimum, 4.9 Oct. 30, 1973.

DISSOLVED OXYGEN: Maximum, 18.2 mg/l Apr. 9, 1971; minimum, 0 mg/l Aug. 30, 31, 1974.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 441 micromhos July 12; minimum recorded, 57 micromhos Apr. 23, but may have been lower during period of missing record in April, May.

pH: Maximum recorded, 8.0 Apr. 28, 30; minimum, 5.4 Nov. 13.

DISSOLVED OXYGEN: Maximum recorded, 14.9 mg/l Jan. 5, 6, Mar. 3, 4; minimum recorded, 1.2 mg/l Aug. 26-29.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2; minimum, freezing point on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV. 06...	1000	148	6.4	--	10.0	7.1	--	54100	--
DEC. 30...	1330	130	6.7	.0	.5	13.6	36000	3600	--
JAN. 10...	0930	168	6.8	--	1.0	13.0	39000	12000	--
FEB. 13...	1300	154	6.5	-2.0	1.5	12.9	18000	85700	--
MAR. 20...	1100	130	6.7	10.5	5.5	11.5	12000	5300	--
APR. 21...	1600	73	6.7	16.0	9.0	11.4	4900	6900	--
JUNE 11...	1145	99	6.8	23.5	17.0	7.2	67000	15000	--
JULY 09...	1230	140	6.8	29.5	25.5	5.5	26000	--	1100
AUG. 04...	1000	120	6.5	25.0	27.5	5.6	130000	44000	8130
SEP. 09...	1245	149	6.7	18.0	21.0	6.1	815000	87000	890

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
NOV. 06...	5.20	.000	.48	.05	.53	1.1	.50	2.1	1.6
DEC. 30...	.400	.000	.33	.00	.33	.41	.30	1.0	.71
JAN. 10...	--	--	.35	.01	.36	.60	.50	1.5	1.1
FEB. 13...	.000	.000	--	--	--	--	--	--	--
MAR. 20...	.000	.000	.27	.00	.27	.32	.45	1.0	.77
APR. 21...	.000	.000	.22	.01	.23	.12	.23	.58	.35
JUNE 11...	4.00	1.40	.33	.03	.36	.21	.47	1.0	.68
JULY 09...	36.0	.000	.52	.04	.56	.38	.60	1.5	.98
AUG. 04...	37.0	.000	.33	.01	.34	.16	.94	1.4	1.1
SEP. 09...	26.0	.000	.84	.04	.88	.25	1.1	2.2	1.3

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
NOV. 06...	.28	113	7	26	--	0	--	--
DEC. 30...	.13	78	2	16	--	0	--	--
JAN. 10...	.15	109	6	16	4.1	1	0	13
FEB. 13...	.16	78	4	13	--	2	--	--
MAR. 20...	.11	75	5	15	3.8	1	0	10
APR. 21...	.18	67	4	13	--	0	--	--
JUNE 11...	.15	73	3	18	--	--	--	--
JULY 09...	.24	97	5	30	4.5	0	--	7
AUG. 04...	.11	110	6	--	--	0	--	--
SEP. 09...	.13	103	7	36	--	0	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
JAN. 10...	330	400	57	16	0	13	13	32	19	0	<2	19
MAR. 20...	250	280	40	12	0	10	12	22	15	0	0	14
JULY 09...	370	400	60	20	0	16	12	20	18	0	0	20

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
JAN. 10...	0	<2	12	30	<1	3	0	50	1.0	20	<2	<1
MAR. 20...	<8	0	5	7	0	2	0	50	<.5	7	0	0
JULY 09...	<2	<1	7	6	1	5	0	0	1.0	15	0	0

DATE	TOTAL GERMANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TITANIUM (TI) (UG/L)	TOTAL ZIRCONIUM (ZR) (UG/L)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	COD IN BOTTOM MATERIAL (MG/KG)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BERYLLIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BORON IN BOTTOM MATERIAL (UG/G)
JAN. 10...	<2	2	15	<2	--	--	--	--	--	--	--	--
MAR. 20...	0	1	10	0	11000	26000	4000	5000	85	25	0	5
JULY 09...	0	2	20	2	--	--	--	--	--	--	--	--

MERRIMACK RIVER BASIN

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOLYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANADIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITANIUM IN BOTTOM MA- TERIAL (UG/G)
JAN. 10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	2	44	2	35	40	0	10	0	5	7.0	70	220
JULY 09...	--	--	--	--	--	--	--	--	--	--	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
JAN. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.1
MAR. 20...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
APR. 21...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
JULY 09...	.00	.0	.00	.00	.00	<.01	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
NOV. 06...	<1.1	3.4	4.2	97	1.3	1.5	1.7	13
DEC. 30...	5.3	5.4	6.3	95	1.9	1.3	1.5	32
JAN. 10...	<1.0	2.6	3.3	96	.6	.8	.8	10
FEB. 13...	1.6	2.4	3.0	76	3.9	2.5	2.7	4
MAR. 20...	1.6	2.5	3.1	77	1.5	1.1	1.2	9
APR. 21...	1.4	1.8	2.3	41	5.6	3.0	4.0	25
JUNE 11...	<.7	1.8	2.3	59	1.1	.7	.8	13
JULY 09...	<.8	2.5	3.2	80	.6	.7	.8	18
AUG. 04...	<1.7	2.5	3.1	100	1.4	.6	.7	20
SEP. 09...	<1.2	2.8	3.5	92	1.3	1.0	1.1	20

MERRIMACK RIVER BASIN

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01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	136	128	133	145	139	142	---	---	---	138	121	126
2	142	133	138	158	141	144	---	---	---	148	125	136
3	137	130	134	171	142	147	---	---	---	144	121	130
4	138	123	132	155	146	149	125	117	121	137	119	125
5	129	114	123	154	148	150	120	113	117	137	119	128
6	126	117	120	153	147	151	117	112	115	129	116	123
7	126	117	121	151	140	148	119	115	117	130	119	124
8	132	120	126	145	138	142	118	109	114	137	123	132
9	133	129	131	142	137	140	119	110	114	157	130	142
10	144	132	136	141	130	138	120	94	106	187	137	163
11	146	141	144	135	126	131	94	85	90	161	147	156
12	162	144	150	138	127	132	93	87	90	160	146	151
13	203	147	154	138	130	133	94	89	91	151	141	144
14	201	148	156	137	130	132	91	90	91	147	139	143
15	198	148	155	135	125	131	95	91	93	146	133	137
16	218	144	154	136	123	129	98	94	96	135	127	130
17	171	140	147	128	118	124	---	---	---	130	121	125
18	151	142	144	123	113	119	---	---	---	130	123	125
19	158	144	152	123	114	119	---	---	---	168	128	139
20	158	146	153	124	114	120	---	---	---	---	---	---
21	150	141	147	124	118	121	---	---	---	---	---	---
22	146	140	143	121	110	116	---	---	---	---	---	---
23	144	139	141	111	101	106	---	---	---	---	---	---
24	143	134	139	102	93	98	---	---	---	---	---	---
25	137	134	136	152	89	105	---	---	---	---	---	---
26	139	133	135	206	158	177	---	---	---	---	---	---
27	143	137	140	206	128	177	---	---	---	---	---	---
28	142	137	139	128	115	122	---	---	---	---	---	---
29	142	135	137	---	---	---	---	---	---	---	---	---
30	138	136	137	---	---	---	130	118	123	---	---	---
31	141	136	139	---	---	---	130	119	124	---	---	---
MONTH	218	114	140	206	89	134	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	119	107	113	93	91	92	---	---	---
2	---	---	---	117	114	116	96	93	94	---	---	---
3	---	---	---	124	116	120	101	97	99	---	---	---
4	---	---	---	124	120	121	101	92	98	---	---	---
5	---	---	---	129	123	125	92	84	86	---	---	---
6	---	---	---	130	127	128	84	81	83	---	---	---
7	---	---	---	132	129	131	85	81	83	---	---	---
8	---	---	---	134	130	132	87	84	86	---	---	---
9	---	---	---	134	130	131	90	87	88	---	---	---
10	---	---	---	137	131	134	93	89	91	---	---	---
11	174	148	157	138	134	136	97	93	95	---	---	---
12	161	146	154	142	133	136	100	96	98	---	---	---
13	157	146	153	146	134	142	100	98	99	---	---	---
14	172	145	159	146	141	143	102	99	99	---	---	---
15	159	145	153	152	137	144	101	99	100	---	---	---
16	172	147	160	174	146	152	102	99	101	---	---	---
17	186	153	166	154	144	148	102	95	99	---	---	---
18	179	156	164	---	---	---	98	94	96	---	---	---
19	205	171	183	---	---	---	---	---	---	---	---	---
20	217	173	188	131	127	129	---	---	---	---	---	---
21	197	178	185	125	100	116	75	72	73	---	---	---
22	190	182	187	100	89	92	71	67	68	---	---	---
23	198	171	183	92	73	90	69	57	66	---	---	---
24	186	169	178	74	72	73	---	---	---	---	---	---
25	181	155	165	81	75	78	---	---	---	---	---	---
26	159	138	148	82	80	81	---	---	---	---	---	---
27	139	118	127	81	79	80	---	---	---	---	---	---
28	121	110	114	84	80	82	---	---	---	---	---	---
29	---	---	---	86	83	84	---	---	---	110	103	106
30	---	---	---	88	85	86	---	---	---	118	100	109
31	---	---	---	92	88	90	---	---	---	121	100	116
MONTH	---	---	---	174	72	115	---	---	---	---	---	---

MERRIMACK RIVER BASIN

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	126	119	123	136	126	130	107	100	104	170	155	159
2	133	125	128	132	124	127	109	100	103	167	151	158
3	137	132	135	133	126	128	145	100	108	172	158	168
4	139	131	137	168	127	133	264	104	122	184	151	165
5	134	129	132	161	128	136	241	109	128	189	144	155
6	130	124	128	212	132	142	178	118	132	199	141	151
7	129	117	124	177	130	138	241	124	137	219	136	150
8	125	109	118	181	128	137	255	127	146	217	134	147
9	115	102	107	210	132	147	200	131	147	187	134	148
10	106	97	102	240	137	155	252	136	155	171	143	150
11	102	97	99	322	137	172	210	110	141	162	136	143
12	103	99	101	441	138	174	156	141	149	149	135	139
13	108	102	104	380	140	178	158	133	143	143	133	136
14	110	104	106	403	140	185	141	129	133	141	135	136
15	105	88	97	171	145	160	145	129	135	143	136	138
16	89	79	84	172	130	154	150	136	139	148	139	145
17	90	79	85	137	101	120	172	137	141	151	143	147
18	95	85	90	101	93	97	152	138	140	151	139	144
19	88	85	87	113	89	100	148	137	140	149	138	142
20	92	87	90	102	62	81	151	137	140	148	136	140
21	96	92	94	68	63	65	154	137	141	151	136	141
22	100	94	97	75	67	72	170	137	144	157	138	147
23	102	95	99	84	76	80	181	139	148	164	145	155
24	107	98	101	92	85	88	254	142	159	164	132	147
25	110	100	105	97	89	92	336	145	181	142	132	136
26	112	106	109	101	92	96	197	148	159	---	---	---
27	115	108	110	105	98	100	166	154	159	---	---	---
28	125	110	114	103	97	100	175	158	164	---	---	---
29	125	115	121	102	98	100	180	166	170	---	---	---
30	132	121	125	103	99	101	181	166	170	100	92	95
31	---	---	---	108	101	104	179	161	166	---	---	---
MONTH	139	79	108	441	62	122	336	100	143	219	92	145
YEAR	441	57	128									

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.2	6.2	6.6	6.2	6.4	6.2	6.0	6.1	6.7	6.6	6.6
2	6.4	6.1	6.3	6.5	6.2	6.3	6.5	5.9	6.2	6.6	6.6	6.6
3	6.4	6.3	6.3	6.5	6.3	6.4	6.6	6.1	6.4	6.6	6.5	6.6
4	6.4	6.2	6.3	6.6	6.1	6.4	6.8	6.4	6.6	6.6	6.5	6.6
5	6.3	6.0	6.2	6.5	6.3	6.3	6.5	6.3	6.5	6.6	6.5	6.5
6	6.3	5.9	6.1	6.5	6.3	6.3	6.8	6.3	6.5	6.6	6.5	6.5
7	6.5	5.8	6.2	6.4	6.2	6.3	7.1	6.4	6.7	6.5	6.4	6.5
8	6.3	6.1	6.2	6.4	6.2	6.3	6.8	6.5	6.7	6.5	6.4	6.5
9	6.3	6.2	6.2	6.4	6.3	6.3	6.6	6.5	6.5	6.8	6.4	6.6
10	6.4	5.7	6.1	6.4	6.2	6.3	6.7	6.5	6.6	6.7	6.6	6.7
11	6.4	6.2	6.3	6.4	6.1	6.2	7.0	6.5	6.7	6.6	6.4	6.6
12	6.5	5.8	6.2	6.1	5.9	6.0	6.6	6.4	6.5	6.6	6.3	6.5
13	6.4	5.8	6.3	6.3	5.4	6.0	6.6	6.3	6.4	7.0	6.5	6.7
14	6.4	5.9	6.2	6.3	6.1	6.2	6.5	6.3	6.4	6.8	6.7	6.8
15	6.6	5.7	6.2	6.3	6.1	6.2	6.8	6.4	6.6	6.8	6.8	6.8
16	6.5	6.3	6.3	6.3	6.1	6.2	6.9	6.7	6.8	6.8	6.7	6.8
17	6.4	5.9	6.2	6.3	6.2	6.2	---	---	---	6.8	6.7	6.7
18	6.5	6.0	6.2	6.3	6.1	6.2	---	---	---	6.7	6.7	6.7
19	6.9	6.4	6.6	6.3	6.1	6.2	---	---	---	6.7	6.3	6.5
20	6.6	6.2	6.4	6.2	5.8	6.0	---	---	---	---	---	---
21	6.6	6.1	6.5	6.2	5.7	5.9	---	---	---	---	---	---
22	---	---	---	6.2	6.1	6.2	---	---	---	---	---	---
23	6.6	6.4	6.5	6.3	6.1	6.2	---	---	---	---	---	---
24	6.5	6.3	6.5	6.7	5.9	6.2	---	---	---	---	---	---
25	6.5	6.2	6.4	6.5	6.2	6.3	---	---	---	---	---	---
26	6.4	6.2	6.3	6.3	6.1	6.2	---	---	---	---	---	---
27	6.4	6.1	6.3	6.3	6.2	6.3	---	---	---	---	---	---
28	6.6	6.1	6.4	6.3	6.1	6.2	---	---	---	---	---	---
29	6.7	6.1	6.4	6.2	6.1	6.2	---	---	---	---	---	---
30	6.5	6.2	6.4	6.2	6.1	6.2	6.8	6.7	6.7	---	---	---
31	6.5	6.3	6.4	---	---	---	6.7	6.7	6.7	---	---	---
MONTH	6.9	5.7	6.3	6.7	5.4	6.2	---	---	---	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

APRIL							MAY									
DAY				MAX	MIN	MEAN	MAX	MIN	MEAN							
1				---	---	---	7.8	7.5	7.6							
2				---	---	---	7.5	7.3	7.3							
3				---	---	---	7.6	7.2	7.3							
4				6.7	6.5	6.6	7.3	7.2	7.2							
5				6.7	6.4	6.5	7.4	7.1	7.2							
6				6.8	6.6	6.7	7.3	7.1	7.2							
7				6.8	6.6	6.7	7.3	7.1	7.2							
8				6.6	6.4	6.6	7.1	7.0	7.0							
9				6.6	6.5	6.5	---	---	---							
10				6.7	6.5	6.7	---	---	---							
11				6.8	6.6	6.7	---	---	---							
12				6.9	6.6	6.8	---	---	---							
13				6.9	6.6	6.8	---	---	---							
14				7.0	6.5	6.8	---	---	---							
15				6.6	6.5	6.5	---	---	---							
16				6.6	6.4	6.5	---	---	---							
17				6.4	6.3	6.4	---	---	---							
18				6.3	6.2	6.3	---	---	---							
19				---	---	---	---	---	---							
20				---	---	---	---	---	---							
21				7.6	6.7	7.5	---	---	---							
22				7.9	7.6	7.7	---	---	---							
23				7.8	7.4	7.6	---	---	---							
24				7.9	7.6	7.7	---	---	---							
25				7.8	7.7	7.7	---	---	---							
26				7.8	7.6	7.7	---	---	---							
27				7.9	7.6	7.7	---	---	---							
28				8.0	7.5	7.8	---	---	---							
29				7.9	7.6	7.8	6.5	6.2	6.3							
30				8.0	7.6	7.8	6.4	5.9	6.1							
31				---	---	---	6.5	6.0	6.2							
MONTH				8.0	6.2	7.0	---	---	---							
JUNE				JULY			AUGUST			SEPTEMBER						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
1	6.5	6.2	6.4	7.1	6.3	6.6	7.3	6.3	6.7	7.1	6.4	6.6				
2	6.3	6.1	6.2	7.4	6.4	6.8	7.1	6.2	6.5	7.2	6.4	6.7				
3	6.5	6.1	6.3	7.4	6.5	6.8	6.8	6.3	6.6	7.0	6.4	6.5				
4	6.6	6.4	6.5	7.3	6.2	6.7	6.8	6.3	6.4	7.3	6.2	6.5				
5	6.6	6.3	6.5	7.4	6.4	6.8	6.8	6.5	6.6	7.4	6.2	6.6				
6	6.7	6.3	6.4	7.1	6.3	6.8	6.7	6.3	6.5	7.1	6.3	6.6				
7	7.2	6.4	6.8	6.8	6.2	6.6	6.6	6.4	6.4	7.5	6.2	6.6				
8	7.3	6.5	6.9	7.0	6.4	6.7	6.5	6.4	6.4	7.4	6.3	6.8				
9	7.2	6.3	6.9	7.0	6.3	6.7	6.8	6.4	6.6	7.1	6.5	6.8				
10	7.1	5.9	6.7	7.3	6.6	7.0	7.0	6.5	6.7	7.4	6.4	6.7				
11	7.5	5.8	6.6	7.4	6.6	7.0	6.8	6.3	6.6	7.3	6.5	6.7				
12	7.3	6.0	6.9	7.2	6.7	6.9	7.0	6.5	6.7	6.9	6.4	6.7				
13	7.5	7.0	7.2	7.2	6.6	6.9	7.0	6.5	6.7	6.7	6.3	6.5				
14	7.9	6.4	7.3	---	---	---	6.8	6.5	6.6	6.7	6.4	6.5				
15	---	---	---	---	---	---	7.2	6.4	6.5	6.8	6.2	6.5				
16	---	---	---	---	---	---	7.0	6.2	6.5	6.8	6.3	6.5				
17	---	---	---	---	---	---	6.8	6.2	6.5	6.6	6.2	6.4				
18	---	---	---	---	---	---	7.0	5.9	6.4	6.7	6.2	6.4				
19	---	---	---	---	---	---	6.7	5.9	6.3	6.5	6.3	6.4				
20	7.1	6.0	6.7	---	---	---	6.9	5.9	6.3	6.5	6.2	6.4				
21	---	---	---	6.5	6.2	6.3	6.9	5.9	6.3	---	---	---				
22	7.0	6.1	6.5	6.4	6.1	6.3	6.8	6.1	6.5	---	---	---				
23	7.0	6.1	6.6	6.4	6.1	6.3	7.1	6.1	6.4	---	---	---				
24	7.3	6.3	6.7	6.6	6.2	6.3	6.6	6.2	6.4	---	---	---				
25	7.6	6.4	6.8	6.4	6.3	6.4	6.8	6.3	6.5	---	---	---				
26	7.3	6.3	6.7	6.7	6.3	6.4	6.9	6.3	6.6	---	---	---				
27	7.5	6.1	6.6	7.0	6.3	6.6	7.0	6.5	6.7	---	---	---				
28	7.1	6.3	6.6	7.0	6.4	6.6	6.8	6.4	6.5	---	---	---				
29	6.6	6.3	6.4	7.1	6.5	6.7	6.7	6.4	6.5	---	---	---				
30	7.0	6.2	6.5	7.2	6.4	6.7	6.6	6.4	6.6	6.4	6.2	6.3				
31	---	---	---	7.0	6.2	6.6	7.1	6.4	6.6	---	---	---				
MONTH																
YEAR																

MERRIMACK RIVER BASIN

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	6.2	7.3	8.1	6.7	7.2	14.5	13.5	14.1	14.6	13.8	14.3
2	8.7	6.5	7.6	7.6	6.6	6.9	14.3	13.3	13.6	14.8	14.1	14.5
3	8.6	7.4	7.9	7.6	6.0	6.8	13.6	13.1	13.4	14.7	13.9	14.4
4	8.7	7.0	7.6	8.5	5.9	7.0	14.0	11.6	13.3	14.6	13.8	14.2
5	8.7	6.8	7.7	8.1	6.6	7.3	---	---	---	14.9	14.0	14.4
6	8.5	7.0	7.5	8.1	6.2	6.9	---	---	---	14.9	14.5	14.7
7	8.2	6.5	7.5	9.1	6.5	7.4	---	---	---	14.7	13.9	14.3
8	8.2	6.5	7.2	9.6	7.9	8.5	---	---	---	14.4	13.3	13.9
9	7.6	5.7	6.4	10.2	8.6	9.3	---	---	---	14.3	13.6	13.9
10	6.7	5.3	5.8	10.5	9.1	9.8	---	---	---	---	---	---
11	6.4	5.0	5.5	11.0	9.8	10.5	---	---	---	---	---	---
12	6.2	4.8	5.3	10.8	9.3	9.9	---	---	---	---	---	---
13	5.6	4.7	5.1	9.9	8.9	9.3	---	---	---	---	---	---
14	6.8	4.5	5.3	10.0	8.4	9.1	---	---	---	---	---	---
15	7.0	4.3	5.9	10.9	8.6	9.5	---	---	---	---	---	---
16	6.5	5.3	5.8	11.0	9.0	10.0	---	---	---	---	---	---
17	5.8	5.0	5.4	11.7	9.8	10.5	---	---	---	---	---	---
18	6.9	4.8	5.6	12.0	10.7	11.3	---	---	---	---	---	---
19	8.8	5.6	7.1	11.8	10.1	11.0	---	---	---	---	---	---
20	10.1	7.6	8.5	11.6	9.9	10.6	---	---	---	---	---	---
21	10.7	9.4	10.0	11.1	9.7	10.3	---	---	---	---	---	---
22	10.7	9.4	10.0	12.1	10.6	11.3	---	---	---	---	---	---
23	10.9	9.0	9.8	13.3	11.9	12.7	---	---	---	---	---	---
24	10.3	9.2	9.6	13.3	12.9	13.2	---	---	---	---	---	---
25	10.4	8.7	9.4	13.4	12.9	13.1	---	---	---	---	---	---
26	9.7	8.8	9.2	13.8	13.2	13.5	---	---	---	---	---	---
27	9.8	8.4	9.2	14.0	13.5	13.7	---	---	---	---	---	---
28	10.8	8.9	9.9	14.1	13.2	13.7	---	---	---	---	---	---
29	10.6	8.7	9.5	14.3	13.7	14.0	---	---	---	---	---	---
30	9.8	8.2	8.8	14.6	13.4	14.0	14.4	13.6	14.1	---	---	---
31	8.7	7.4	7.9	---	---	---	14.7	13.7	14.3	---	---	---
MONTH	10.9	4.3	7.6	14.6	5.9	10.3	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.6	14.0	14.4	---	---	---	12.4	11.0	11.8
2	---	---	---	14.8	14.3	14.6	---	---	---	11.2	11.0	11.1
3	---	---	---	14.9	14.4	14.7	---	---	---	11.1	10.7	11.0
4	---	---	---	14.9	14.4	14.8	13.5	12.0	12.9	11.2	11.0	11.1
5	---	---	---	---	---	---	14.3	13.6	14.1	11.2	10.9	11.1
6	---	---	---	---	---	---	14.1	13.6	13.8	11.1	10.9	11.0
7	---	---	---	12.8	11.6	12.4	13.8	12.5	13.4	11.0	10.7	10.9
8	---	---	---	13.5	12.7	13.0	12.6	11.8	12.2	10.9	10.6	10.7
9	---	---	---	14.1	13.6	13.8	12.8	11.6	12.4	---	---	---
10	---	---	---	14.3	11.5	13.5	13.1	12.8	12.9	---	---	---
11	13.4	13.0	13.2	13.8	13.4	13.6	13.2	12.5	12.9	---	---	---
12	13.5	12.7	13.1	13.7	13.2	13.5	12.7	12.2	12.4	---	---	---
13	13.7	12.7	13.3	13.4	12.4	12.9	12.3	12.0	12.2	---	---	---
14	13.7	12.8	13.2	13.3	13.0	13.2	12.2	11.7	12.0	---	---	---
15	13.4	12.6	13.0	13.5	13.0	13.3	12.0	11.6	11.9	---	---	---
16	13.3	12.6	12.9	13.5	12.8	13.2	11.9	11.6	11.8	---	---	---
17	13.3	12.8	13.0	13.2	12.9	13.1	11.8	11.3	11.6	---	---	---
18	13.0	12.3	12.7	---	---	---	11.7	11.4	11.6	---	---	---
19	12.6	11.8	12.2	---	---	---	---	---	---	---	---	---
20	12.2	11.6	12.0	11.7	11.4	11.5	---	---	---	---	---	---
21	12.1	11.5	11.9	12.6	11.6	12.1	---	---	---	---	---	---
22	11.9	11.4	11.7	13.3	12.6	13.1	12.2	11.7	12.1	---	---	---
23	11.7	10.2	11.4	---	---	---	12.4	11.8	12.2	---	---	---
24	11.7	11.4	11.5	---	---	---	12.2	11.8	12.0	---	---	---
25	11.8	11.4	11.6	---	---	---	12.0	11.6	11.8	---	---	---
26	12.8	11.6	12.0	---	---	---	12.1	11.3	11.9	---	---	---
27	14.2	13.4	13.8	---	---	---	12.2	12.0	12.1	---	---	---
28	14.6	14.0	14.4	---	---	---	12.4	11.7	12.3	---	---	---
29	---	---	---	---	---	---	12.6	12.1	12.4	7.4	6.6	7.0
30	---	---	---	---	---	---	12.6	11.9	12.4	7.0	6.2	6.7
31	---	---	---	---	---	---	---	---	---	6.6	5.8	6.2
MONTH	---	---	---	---	---	---	14.3	11.3	12.4	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.1	5.7	5.9	7.3	6.1	6.6	7.0	5.5	6.1	4.4	3.1	3.7
2	6.7	5.6	6.2	7.8	6.3	7.0	7.0	5.5	6.4	5.1	4.0	4.9
3	7.0	6.0	6.5	8.2	6.6	7.3	6.6	5.6	6.2	5.2	2.9	3.9
4	6.4	5.9	6.1	8.5	6.6	7.7	6.2	5.1	5.8	5.4	3.4	4.8
5	6.8	5.8	6.4	8.8	7.3	8.2	6.0	4.8	5.5	6.1	4.1	5.2
6	7.0	6.2	6.6	8.7	6.4	7.4	6.0	4.4	5.0	6.9	3.2	5.5
7	7.5	6.5	7.0	8.1	5.7	6.9	5.5	4.5	4.8	6.1	5.0	5.3
8	7.6	7.2	7.5	8.2	6.4	7.2	5.1	4.2	4.6	8.3	5.5	6.4
9	7.9	7.7	7.8	---	---	---	4.9	4.2	4.6	8.7	3.7	6.3
10	8.2	7.8	8.0	---	---	---	5.2	4.4	4.8	6.6	4.0	5.1
11	8.2	7.1	7.5	---	---	---	6.3	4.8	5.4	5.4	3.4	4.6
12	7.2	6.8	7.0	---	---	---	6.3	5.3	5.8	6.4	3.7	5.0
13	7.0	6.5	6.7	---	---	---	6.3	5.3	5.8	5.3	3.5	4.5
14	7.3	6.6	6.9	---	---	---	6.1	5.1	5.6	5.6	4.0	4.9
15	7.6	4.3	6.7	---	---	---	6.0	5.1	5.5	6.4	3.7	5.0
16	7.6	4.1	6.5	---	---	---	5.6	4.8	5.2	7.0	5.7	6.3
17	7.4	4.2	6.0	---	---	---	5.0	4.2	4.6	---	---	---
18	7.4	7.2	7.3	---	---	---	4.5	3.6	4.1	---	---	---
19	7.4	6.9	7.1	---	---	---	4.4	3.6	4.0	---	---	---
20	7.4	6.6	7.0	---	---	---	4.2	3.3	3.8	---	---	---
21	7.3	6.5	6.9	6.5	5.2	6.1	4.3	3.3	3.8	---	---	---
22	7.4	6.5	7.0	6.2	4.7	5.7	5.2	3.2	4.2	---	---	---
23	7.9	6.5	7.3	6.8	3.9	6.0	6.0	3.7	4.8	---	---	---
24	7.9	6.7	7.3	6.5	5.3	6.0	5.4	1.8	4.0	---	---	---
25	8.1	6.7	7.3	6.0	3.9	5.1	4.3	1.4	2.6	---	---	---
26	7.5	6.3	6.9	6.4	3.7	5.4	2.4	1.2	1.6	---	---	---
27	7.9	6.3	7.0	7.2	4.9	6.1	1.4	1.2	1.3	---	---	---
28	7.8	6.4	7.0	7.7	5.9	7.1	1.6	1.2	1.2	---	---	---
29	6.8	5.2	6.3	7.3	5.9	6.6	3.7	1.2	1.9	---	---	---
30	7.1	5.8	6.3	7.1	5.9	6.5	3.8	2.4	3.0	9.0	7.6	8.2
31	---	---	---	7.0	5.7	6.2	3.9	2.5	3.2	---	---	---
MONTH	8.2	4.1	6.9	---	---	---	7.0	1.2	4.4	---	---	---
YEAR	14.9	1.2	9.0									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	16.5	10.5	9.5	10.0	1.0	0.5	0.5	0.5	0.0	0.0
2	16.5	15.5	16.0	10.5	10.0	10.0	1.5	0.5	1.0	0.5	0.0	0.0
3	16.0	15.0	15.5	10.0	9.0	9.5	2.0	1.5	1.5	0.0	0.0	0.0
4	14.5	14.0	14.5	11.0	9.5	10.0	1.5	0.5	1.0	0.5	0.0	0.5
5	14.5	13.0	14.0	10.5	10.0	10.5	1.0	0.0	0.5	0.5	0.0	0.0
6	15.0	14.0	14.5	10.5	10.0	10.0	0.5	0.0	0.5	0.0	0.0	0.0
7	15.0	14.0	14.5	10.5	9.5	10.0	0.5	0.0	0.0	0.0	0.0	0.0
8	14.5	13.5	14.0	9.5	9.0	9.5	1.5	0.5	1.0	0.0	0.0	0.0
9	14.0	13.0	13.5	9.5	9.0	9.0	2.0	1.5	1.5	0.5	0.0	0.0
10	13.5	13.0	13.0	9.0	8.0	8.5	2.0	1.0	1.5	1.0	0.0	0.5
11	13.0	12.5	12.5	8.5	8.0	8.0	2.0	1.0	1.5	1.5	0.0	0.5
12	13.0	12.5	13.0	8.5	8.0	8.0	1.0	0.5	1.0	1.5	1.0	1.5
13	13.0	12.5	13.0	8.5	8.0	8.5	1.0	0.5	1.0	2.0	1.0	1.0
14	13.0	12.0	12.5	8.5	7.5	8.0	1.5	1.0	1.0	1.0	0.5	0.5
15	13.5	12.5	13.0	8.0	7.5	8.0	1.5	1.0	1.0	0.5	0.0	0.0
16	13.5	12.0	13.0	7.5	6.5	7.0	1.5	1.0	1.0	0.0	0.0	0.0
17	12.5	11.5	12.0	7.0	6.0	6.5	---	---	---	0.0	0.0	0.0
18	12.0	11.0	11.5	6.5	6.0	6.0	---	---	---	0.0	0.0	0.0
19	11.0	10.0	10.5	6.5	6.0	6.0	---	---	---	0.0	0.0	0.0
20	10.5	9.0	9.5	6.0	6.0	6.0	---	---	---	0.0	0.0	0.0
21	9.0	8.0	8.5	6.0	5.5	6.0	---	---	---	---	---	---
22	9.0	8.0	8.5	5.5	4.5	5.0	---	---	---	---	---	---
23	9.5	8.5	9.0	4.5	4.0	4.0	---	---	---	---	---	---
24	9.0	8.0	8.5	4.5	4.0	4.0	---	---	---	---	---	---
25	8.5	8.0	8.0	4.0	3.5	4.0	---	---	---	---	---	---
26	8.5	7.5	8.0	3.5	2.0	3.0	---	---	---	---	---	---
27	8.0	7.5	8.0	2.0	1.5	2.0	---	---	---	---	---	---
28	7.5	7.0	7.5	2.5	1.5	1.5	---	---	---	---	---	---
29	8.5	7.0	7.5	1.5	1.0	1.5	---	---	---	---	---	---
30	9.0	8.0	8.5	1.5	0.5	1.0	0.5	0.0	0.0	---	---	---
31	9.5	8.5	9.0	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	17.0	7.0	11.5	11.0	0.5	6.5	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1.0	0.5	1.0	4.0	2.5	3.5	10.5	9.0	9.5
2	---	---	---	1.0	0.5	0.5	5.0	3.0	4.0	10.0	9.5	10.0
3	---	---	---	1.0	0.0	0.5	4.5	4.0	4.0	11.5	9.5	10.5
4	---	---	---	1.0	0.0	0.5	4.5	3.5	4.0	10.5	10.0	10.0
5	---	---	---	1.5	0.0	1.0	3.5	2.5	3.0	11.0	9.5	10.0
6	---	---	---	1.5	0.5	1.0	3.0	2.5	2.5	12.5	10.0	11.0
7	---	---	---	2.0	1.0	1.5	4.0	2.5	3.0	12.0	10.5	11.5
8	---	---	---	2.0	1.5	2.0	5.0	3.5	4.0	13.5	11.0	12.0
9	---	---	---	1.5	0.0	1.0	5.0	4.5	4.5	---	---	---
10	---	---	---	1.5	0.5	1.0	6.0	4.5	5.0	---	---	---
11	1.0	0.5	0.5	1.5	0.5	1.0	7.0	5.5	6.0	---	---	---
12	0.5	0.5	0.5	1.5	1.0	1.0	7.5	6.0	7.0	---	---	---
13	1.0	0.0	0.5	2.0	1.5	1.5	8.0	6.5	7.5	---	---	---
14	0.5	0.0	0.5	2.0	1.5	1.5	8.5	7.0	8.0	---	---	---
15	0.5	0.5	0.5	2.0	1.0	1.5	9.0	7.5	8.5	---	---	---
16	0.5	0.5	0.5	2.5	1.0	2.0	10.0	8.0	9.0	---	---	---
17	0.5	0.5	0.5	2.5	1.5	2.0	11.0	8.5	9.5	---	---	---
18	0.5	0.5	0.5	---	---	---	11.0	9.0	10.0	---	---	---
19	0.5	0.5	0.5	---	---	---	---	---	---	---	---	---
20	1.0	0.5	0.5	5.5	5.0	5.0	---	---	---	---	---	---
21	1.5	0.5	1.0	5.0	4.5	4.5	---	---	---	---	---	---
22	2.5	1.0	2.0	4.0	3.0	3.0	8.0	7.0	7.5	---	---	---
23	2.5	2.0	2.0	4.0	2.5	3.0	8.0	6.5	7.5	---	---	---
24	2.5	2.0	2.0	4.0	2.0	3.0	8.0	7.5	7.5	---	---	---
25	2.5	2.0	2.0	5.5	3.5	4.5	8.5	7.5	8.0	---	---	---
26	2.0	1.5	2.0	4.5	2.0	4.0	9.0	8.0	8.5	---	---	---
27	1.5	1.0	1.5	3.0	1.5	2.0	9.0	8.5	8.5	---	---	---
28	1.5	1.0	1.0	3.5	1.5	2.0	8.5	8.0	8.5	---	---	---
29	---	---	---	3.0	2.0	2.5	9.0	7.5	8.5	22.5	21.5	22.0
30	---	---	---	3.5	2.5	3.0	10.0	8.0	9.0	22.5	21.0	21.5
31	---	---	---	3.5	2.5	3.0	---	---	---	22.5	21.0	21.5
MONTH	---	---	---	5.5	0.0	2.0	11.0	2.5	6.5	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	22.0	22.0	24.5	23.0	24.0	29.5	27.5	28.5	21.5	19.5	20.5
2	23.0	22.0	22.5	25.5	22.5	23.5	31.5	29.0	30.0	22.0	20.5	21.0
3	22.5	21.0	22.0	25.5	24.0	24.5	30.5	28.5	30.0	21.5	21.0	21.0
4	21.0	20.0	20.5	26.0	24.5	25.5	29.5	27.5	28.0	21.5	20.0	20.5
5	20.5	19.5	20.0	27.0	25.5	26.0	27.5	26.5	27.5	22.0	20.5	21.0
6	20.0	18.5	19.0	27.0	25.5	26.0	27.5	26.0	27.0	21.5	21.0	21.0
7	18.5	18.0	18.0	27.0	25.5	26.0	26.0	23.5	25.0	21.5	20.0	21.0
8	18.0	17.0	17.5	26.5	24.5	25.5	24.5	22.5	23.0	21.5	20.5	21.0
9	17.0	16.0	16.5	26.5	25.0	25.5	24.5	22.5	23.5	21.5	21.0	21.0
10	18.0	16.0	17.0	27.0	26.0	26.5	25.5	23.5	24.5	21.0	20.0	20.5
11	19.0	16.5	17.5	27.0	26.0	26.5	26.0	24.5	25.0	21.0	20.0	20.5
12	18.5	17.5	18.0	26.5	25.5	25.5	26.0	24.5	25.0	21.5	20.5	21.0
13	17.5	17.5	17.5	26.0	25.0	25.5	26.0	24.5	25.0	21.0	20.0	20.5
14	18.5	17.5	18.0	26.0	25.0	25.5	26.5	25.0	26.0	20.0	19.0	19.5
15	19.0	17.5	18.0	26.5	25.5	26.0	27.5	25.0	26.5	19.0	18.5	19.0
16	19.5	18.0	18.5	27.0	25.0	26.0	27.0	26.0	26.5	18.5	17.5	18.0
17	20.5	18.5	19.5	27.5	25.5	26.5	26.5	26.0	26.0	18.0	17.0	17.5
18	22.0	19.0	20.5	27.0	25.0	26.0	26.5	25.0	26.0	18.0	17.0	17.5
19	22.5	20.0	21.0	27.0	25.5	26.0	26.0	25.0	25.5	18.0	17.5	18.0
20	22.5	21.0	21.5	26.5	25.5	26.0	25.5	24.5	25.0	18.0	17.5	18.0
21	23.0	21.0	22.0	26.5	25.0	25.5	25.0	24.0	24.5	18.5	17.5	18.0
22	24.5	22.0	23.0	26.5	24.5	25.5	24.5	24.0	24.5	19.0	18.0	18.5
23	25.0	23.0	24.0	27.5	25.5	26.5	24.5	23.5	24.0	19.0	17.5	18.5
24	26.0	24.5	25.0	27.5	26.0	27.0	24.0	22.5	23.0	18.0	16.0	17.0
25	26.5	25.0	25.5	27.0	26.0	26.5	23.0	22.0	22.5	16.5	16.0	16.0
26	26.0	25.0	25.5	26.5	24.5	25.5	23.0	22.0	22.5	16.0	16.0	16.0
27	26.0	24.5	25.5	26.5	25.0	25.5	24.0	22.5	23.0	16.5	16.5	16.5
28	26.5	25.0	25.5	26.0	25.0	25.5	24.5	23.0	23.5	16.5	15.5	16.0
29	26.0	25.0	25.5	26.5	25.0	25.5	24.0	23.5	23.5	16.5	15.0	15.5
30	25.0	24.0	24.5	27.0	25.5	26.0	23.0	21.0	22.5	16.5	15.0	15.5
31	---	---	---	28.0	26.0	27.0	21.5	20.0	20.5	---	---	---
MONTH	26.5	16.0	21.0	28.0	22.5	26.0	31.5	20.0	25.0	22.0	15.0	19.0
YEAR	31.5	0.0	12.5									

01101000 PARKER RIVER AT BYFIELD, MASS.

LOCATION.--Lat 42°45'10", long 70°56'46", Essex County, on left bank 1,400 ft (450 m) downstream from dam, 0.5 mi (0.8 km) south of Byfield, 0.7 mi (1.1 km) upstream from Wheeler Brook, and 5.5 mi (8.8 km) southwest of Newburyport.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

PERIOD OF RECORD.--Discharge: October 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 23.46 ft (7.151 m) above mean sea level (levels by Massachusetts Department of Public Works).

REMARKS.--Records excellent except those for June to September, which are poor. Some regulation at low flow by mill and ponds above station.

AVERAGE DISCHARGE.--30 years, 35.7 ft³/s (1.011 m³/s), 22.44 in/yr (570 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 489 ft³/s (13.8 m³/s) Mar. 19, 1968 (gage height, 5.61 ft or 1.710 m); minimum daily, 0.09 ft³/s (0.003 m³/s) Sept. 25-30, Oct. 3-6, 1957.
Current year: Maximum discharge, 155 ft³/s (4.39 m³/s) Feb. 26 (gage height, 3.32 ft or 1.012 m); maximum gage height, 4.90 ft (1.494 m) June 16; minimum daily discharge, 0.73 ft³/s (0.021 m³/s) July 10, 11, Aug. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	16	21	36	64	115	72	32	11	1.9	.90	5.0
2	39	16	35	36	56	106	69	31	10	1.6	.81	4.5
3	34	15	63	35	51	97	75	30	9.5	1.3	.73	4.0
4	33	15	89	34	44	89	99	30	10	1.2	.73	3.6
5	29	18	87	32	40	78	122	29	10	1.1	.81	3.3
6	26	21	77	30	37	71	125	28	16	.95	.81	3.0
7	24	24	69	29	36	67	118	27	23	.87	1.5	3.5
8	22	25	67	30	35	66	111	26	27	.82	2.2	4.0
9	19	25	69	36	33	62	102	25	27	.76	3.5	3.6
10	17	24	68	41	31	57	93	24	25	.73	5.0	3.3
11	15	23	66	50	31	53	85	23	23	.73	4.5	3.0
12	13	22	61	72	30	51	78	22	22	.81	4.0	2.8
13	11	22	56	96	30	53	72	25	28	1.2	3.5	6.0
14	9.5	22	52	102	30	55	66	30	31	2.0	3.1	5.2
15	8.8	21	48	99	29	55	62	32	30	1.8	2.8	4.6
16	13	20	45	94	29	54	57	34	28	1.6	2.5	4.1
17	18	19	58	84	28	54	54	34	25	1.4	2.2	3.8
18	21	18	68	75	28	55	51	33	23	1.3	2.0	3.6
19	23	17	74	79	30	56	50	31	20	1.1	1.8	3.5
20	23	17	71	81	32	75	48	29	17	1.0	1.7	3.5
21	22	22	65	75	34	105	46	27	14	1.3	1.6	3.5
22	22	25	61	70	34	115	43	24	12	2.0	1.5	3.5
23	21	28	56	64	36	109	40	22	10	1.8	1.4	4.0
24	18	29	53	60	53	101	39	20	8.5	1.6	1.4	6.0
25	16	29	50	61	111	99	38	18	7.0	1.4	1.4	10
26	15	29	46	78	150	96	38	17	5.7	1.3	1.3	16
27	14	27	44	88	140	90	38	15	4.5	1.2	1.3	30
28	14	26	41	81	125	81	37	14	3.6	1.1	1.2	40
29	16	24	39	77	---	74	36	13	3.0	.99	1.2	38
30	16	22	37	76	---	72	34	12	2.4	.99	2.0	35
31	17	---	36	70	---	72	---	11	---	.90	5.0	---
TOTAL	626.3	661	1772	1971	1407	2383	1998	768	486.2	38.75	64.39	263.9
MEAN	20.2	22.0	57.2	63.6	50.3	76.9	66.6	24.8	16.2	1.25	2.08	8.80
MAX	39	29	89	102	150	115	125	34	31	2.0	5.0	40
MIN	8.8	15	21	29	28	51	34	11	2.4	.73	.73	2.8
CFSM	.94	1.02	2.65	2.94	2.33	3.56	3.08	1.15	.75	.06	.10	.41
IN.	1.08	1.14	3.05	3.39	2.42	4.10	3.44	1.32	.84	.07	.11	.45
CAL YR 1974 TOTAL	12771.13											
WTR YR 1975 TOTAL	12439.54											
MEAN 35.0												
MAX 112												
MIN .58												
CFSM 1.62												
IN 21.99												
MEAN 34.1												
MAX 150												
MIN .73												
CFSM 1.58												
IN 21.42												

NOTE.--Stage-discharge relation indefinite June 4 to Sept. 30.

IPSWICH RIVER BASIN

01101500 IPSWICH RIVER AT SOUTH MIDDLETON, MASS.

LOCATION.--Lat 42°34'10", long 71°01'39", Essex County, on right bank in Peabody, 700 ft (200 m) downstream from Boston Street Bridge at South Middleton, 1.3 mi (2.1 km) downstream from Wills Brook, and 2 mi (3 km) south of Middleton.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--Discharge: June 1938 to current year.

Chemical analyses: Water years 1957, 1959 (partial-record station).

Water temperatures: Water years 1957, 1959 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 44.97 ft (13.707 m) above mean sea level (Massachusetts Geodetic Survey bench mark).

REVISIONS (WATER YEARS).--WSP 1301: 1942(M). WSP 1621: 1936-58 (monthly runoff).

REMARKS.--Records good. Diversions above station for municipal supply of Reading, Lynn, and Peabody. Occasional regulation by mill above station.

AVERAGE DISCHARGE.--37 years, 61.0 ft³/s (1.728 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 833 ft³/s (23.6 m³/s) Mar. 19, 1968 (gage height, 7.09 ft or 2.161 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 24, Oct. 1, 1957.
Current year: Maximum discharge, 298 ft³/s (8.44 m³/s) Feb. 26 (gage height, 4.41 ft or 1.344 m); minimum, 0.67 ft³/s (0.019 m³/s) Aug. 4, 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	4.3	7.7	40	109	211	97	35	3.7	3.1	1.4	10
2	45	4.0	45	43	98	186	88	33	2.9	3.7	1.0	4.0
3	43	3.1	112	45	89	160	104	35	6.0	4.2	.91	15
4	40	2.9	103	39	77	143	190	33	14	4.1	.78	14
5	36	9.1	99	39	70	127	206	34	3.8	3.9	1.2	11
6	32	20	101	39	63	116	222	33	21	3.6	.91	10
7	26	20	93	36	60	110	212	31	42	3.1	5.3	9.1
8	20	19	87	42	58	108	192	29	39	2.8	12	7.7
9	14	18	101	58	58	99	173	27	38	2.6	13	7.3
10	8.6	16	100	102	60	91	156	24	37	2.4	9.6	4.1
11	5.0	14	92	114	56	86	141	22	32	2.4	19	3.7
12	2.9	12	84	155	54	84	130	20	26	3.1	18	6.8
13	2.1	17	77	191	53	94	120	34	36	5.3	11	7.6
14	4.0	14	71	196	52	97	111	57	41	4.3	1.4	1.5
15	9.6	13	64	183	50	93	105	59	36	1.7	5.0	7.2
16	18	12	59	173	49	93	98	70	32	2.4	5.3	9.1
17	57	10	106	158	48	96	88	72	28	3.1	6.4	8.1
18	43	8.6	110	142	49	100	86	65	23	3.4	5.3	7.2
19	39	12	100	154	52	100	83	58	17	2.9	4.0	6.5
20	37	10	96	154	59	139	81	49	11	2.6	3.1	6.0
21	36	12	89	136	64	179	76	41	6.3	2.9	2.6	5.8
22	32	19	84	123	66	168	70	33	3.2	3.1	2.1	5.5
23	28	18	77	115	76	164	67	27	4.1	3.1	2.1	5.6
24	24	17	70	108	116	157	68	22	14	3.1	1.9	5.5
25	19	17	65	111	254	163	64	17	7.9	2.9	1.9	33
26	15	18	62	147	292	155	48	13	1.5	2.9	2.1	52
27	12	16	61	142	255	134	46	9.9	3.2	2.1	2.1	65
28	9.6	14	45	133	233	112	44	7.3	4.5	1.9	1.9	72
29	7.3	12	53	130	---	109	41	9.6	1.6	1.7	1.7	68
30	5.6	10	52	132	---	103	38	21	2.1	1.5	20	63
31	4.6	---	42	119	---	106	---	13	---	1.5	23	---
TOTAL	724.3	392.0	2407.7	3499	2620	3883	3245	1033.8	537.8	91.4	186.00	531.3
MEAN	23.4	13.1	77.7	113	93.6	125	108	33.3	17.9	2.95	6.00	17.7
MAX	57	20	112	196	292	211	222	72	42	5.3	23	72
MIN	2.1	2.9	7.7	36	48	84	38	7.3	1.5	1.5	.78	1.5
CAL YR 1974	TOTAL	20851.03	MEAN 57.1	MAX 225	MIN .37							
WTR YR 1975	TOTAL	19151.30	MEAN 52.5	MAX 292	MIN .78							

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LOCATION.--Lat 42°59'35", long 70°53'39", Essex County, on left bank 200 ft (60 m) downstream from Willowdale Dam, 1.5 mi (2.4 km) downstream from Howlett Brook, and 4 mi (6 km) upstream from Ipswich.

PERIOD OF RECORD.--Discharge: June 1930 to current year. Prior to October 1930, published as "at Willowdale."
Chemical analyses: Water year 1954 (partial-record station).
Water temperatures: Water year 1954 (partial-record station).

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1621: 1930-58 (monthly runoff).

AVERAGE DISCHARGE.--45 years, 187 ft³/s (5.296 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 2,680 ft³/s (75.9 m³/s) Mar. 20, 21, 1968 (gage height, 8.41 ft or 2.563 m); minimum, 0.8 ft³/s (0.023 m³/s) Aug. 20, 1965.
Maximum discharge since 1886, that of Mar. 20, 21, 1968.
Current year: Maximum discharge, 727 ft³/s (20.6 m³/s) Feb. 27 (gage height, 4.86 ft or 1.481 m); minimum, 1.4 ft³/s (0.040 m³/s) Nov. 19.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	39	58	125	306	645	335	137	46	18	5.7	56
2	106	37	81	121	274	592	323	127	45	16	4.8	58
3	113	34	119	112	245	549	328	114	38	14	4.4	53
4	112	34	145	116	211	496	389	104	36	14	4.4	40
5	105	43	175	114	199	434	489	105	41	13	6.2	33
6	96	58	203	102	191	381	596	109	65	14	8.5	31
7	85	69	208	109	174	340	618	111	96	13	21	30
8	75	74	202	117	150	314	595	109	111	13	46	28
9	65	75	203	143	135	288	553	105	123	12	59	25
10	53	72	146	190	119	269	507	105	126	11	61	22
11	42	67	191	257	118	255	459	102	120	10	58	20
12	34	62	190	308	114	244	414	99	113	13	49	19
13	29	61	185	372	116	244	379	104	117	18	42	27
14	26	60	178	437	118	240	349	113	123	18	37	33
15	24	60	166	488	118	237	326	123	126	15	31	34
16	40	59	154	509	118	250	304	140	129	14	23	27
17	76	59	209	521	116	251	284	153	127	12	18	24
18	95	55	249	489	116	254	265	158	120	10	36	23
19	101	36	289	492	120	256	249	153	109	9.5	28	22
20	105	46	306	483	128	297	230	143	98	8.8	15	22
21	107	58	296	452	137	370	213	132	86	10	11	21
22	105	76	276	426	146	478	201	120	74	11	2.4	19
23	100	83	254	414	164	535	190	109	58	11	3.9	23
24	93	86	237	355	212	523	184	98	43	9.7	2.9	39
25	87	88	211	339	372	511	178	88	34	9.2	5.1	67
26	78	84	188	374	555	488	173	77	32	8.7	9.1	91
27	69	80	169	401	653	459	170	65	28	8.0	9.5	118
28	61	73	158	411	690	430	164	55	20	7.2	8.8	144
29	53	70	149	383	---	398	155	46	11	6.6	8.1	165
30	46	64	139	368	---	372	146	40	19	6.3	26	175
31	42	---	129	337	---	350	---	39	---	5.8	45	---
TOTAL	2323	1862	5908	4865	6115	11750	9766	3283	2314	359.8	689.8	1489
MEAN	74.9	62.1	191	318	218	379	326	106	77.1	11.6	22.3	49.6
MAX	113	88	306	521	690	645	618	158	129	18	61	175
MIN	24	34	58	102	114	237	146	39	11	5.8	2.4	19
CAL YR 1974	TOTAL	61156.7	MEAN	168	MAX	577	MIN	2.0				
WTR YR 1975	TOTAL	55724.6	MEAN	153	MAX	690	MIN	2.4				

MYSTIC RIVER BASIN

01102500 ABERJONA RIVER AT WINCHESTER, MASS.

LOCATION.--Lat 42°26'50", long 71°08'22", Middlesex County, on left bank at Winchester, 0.5 mi (0.8 km) upstream from head of Mystic Lakes.

DRAINAGE AREA.--24.2 mi² (62.7 km²), excludes 0.6 mi² (1.6 km²) drained by Winchester North Reservoir.

PERIOD OF RECORD.--Discharge: April 1939 to current year.

Chemical analyses: Water year 1958-59, 1973 (partial-record station).

Water temperatures: Water year 1958-59, 1973 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1974: Drainage area.

REMARKS.--Records good. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester North Reservoir. Some regulation by Winchester at dam 1,800 ft (550 m) upstream.

AVERAGE DISCHARGE.--36 years, 27.3 ft³/s (0.773 m³/s).

EXTREMES.--Period of record: Maximum discharge, 835 ft³/s (23.6 m³/s) Aug. 19, 1955 (gage height, 13.64 ft or 4.157 m), from rating curve extended above 330 ft³/s (9.35 m³/s); maximum gage height, 14.43 ft (4.398 m) Oct. 7, 1962 (backwater from Upper Mystic Lake); no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 ft³/s (0.007 m³/s) Oct. 10, 1950.
Maximum discharge since 1886, that of Aug. 19, 1955;
Current year: Maximum discharge, 218 ft³/s (6.17 m³/s) Apr. 3 (gage height, 12.15 ft or 3.703 m); minimum, 0.77 ft³/s (0.022 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	5.2	5.1	29	34	59	29	14	6.2	1.6	1.1	12
2	13	4.3	91	27	30	53	26	16	5.4	1.6	1.1	6.5
3	9.5	4.6	86	21	28	44	90	19	4.5	1.7	1.0	4.9
4	7.3	8.9	37	20	23	35	153	18	16	1.3	1.0	3.6
5	5.7	18	23	18	25	30	116	18	7.4	1.3	3.0	2.9
6	4.9	18	19	19	26	33	84	16	56	1.4	1.6	2.9
7	4.5	12	20	45	27	41	67	15	34	1.2	28	2.4
8	4.1	11	37	42	25	41	57	17	15	1.1	47	2.2
9	3.7	8.6	60	98	23	21	52	15	11	.94	36	2.7
10	3.4	8.0	32	103	21	24	46	17	8.0	1.6	17	2.4
11	3.1	6.6	29	78	22	23	41	17	6.2	2.9	9.0	2.0
12	2.9	6.6	35	77	21	27	37	18	11	18	6.0	18
13	2.4	8.3	28	114	20	40	34	31	23	11	4.5	28
14	2.4	6.8	25	115	19	29	31	46	14	5.2	3.8	11
15	2.9	5.3	18	84	18	35	30	23	9.4	3.2	3.0	5.7
16	61	4.8	24	62	20	39	28	25	7.7	2.5	2.5	4.0
17	61	4.3	106	51	21	38	29	19	7.1	1.9	2.3	3.2
18	28	4.4	56	55	23	35	30	14	6.0	1.6	2.4	3.1
19	16	4.2	50	91	32	31	27	12	5.2	1.4	2.0	2.9
20	12	7.3	37	85	35	82	24	11	4.3	1.4	1.6	2.7
21	8.8	16	29	62	32	79	18	9.4	3.4	9.7	1.3	2.6
22	7.4	13	25	53	28	66	18	8.4	3.4	3.8	1.6	2.3
23	6.8	8.7	20	44	34	52	18	8.0	3.4	2.3	1.1	25
24	6.3	7.3	21	38	112	39	25	7.7	3.2	1.8	2.7	57
25	5.5	7.1	22	58	196	55	25	6.5	2.5	2.4	3.2	67
26	5.6	10	21	79	126	50	24	6.2	2.5	2.0	1.9	55
27	5.1	6.9	20	49	77	32	18	6.5	2.3	1.4	1.8	100
28	4.4	6.8	20	41	59	29	16	6.8	2.2	1.2	1.3	52
29	4.6	6.2	19	47	---	27	15	5.4	2.1	1.2	1.1	28
30	5.0	5.5	19	51	---	50	16	4.7	2.0	1.2	55	19
31	8.3	---	20	40	---	48	---	7.7	---	1.2	25	---
TOTAL	336.6	244.7	1054.1	1796	1157	1287	1224	458.3	284.4	91.04	269.9	531.0
MEAN	10.9	8.16	34.0	57.9	41.3	41.5	40.8	14.8	9.48	2.94	8.71	17.7
MAX	61	18	106	115	196	82	153	46	56	18	55	100
MIN	2.4	4.2	5.1	18	18	21	15	4.7	2.0	.94	1.0	2.0
CAL YR 1974	TOTAL	9371.32	MEAN	25.7	MAX	187	MIN	.85				
WTR YR 1975	TOTAL	8734.04	MEAN	23.9	MAX	196	MIN	.94				

01103505 CHARLES RIVER NEAR MILLIS, MASS.

LOCATION.--Lat 42°07'59", long 71°21'46", Norfolk County, on left bank 150 ft (46 m) upstream from Myrtle St. Bridge, 500 ft (150 m) downstream from Mill River, and 2.5 mi (4.0 km) south of Millis.

DRAINAGE AREA.--85.9 mi² (222.5 km²).

PERIOD OF RECORD.--Discharge: August 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (38 m) from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow affected by diversions to and from the basin for municipal supplies.

EXTREMES.--August to September 1974: Maximum discharge, about 180 ft³/s (5.10 m³/s) about Sept. 30; minimum, 12 ft³/s (0.34 m³/s) Aug. 19, 20, 25-27.

Water year 1975: Maximum discharge, 670 ft³/s (19.0 m³/s) Feb. 26 (gage height, 4.97 ft or 1.515 m); minimum daily, 15 ft³/s (0.42 m³/s) Aug. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST 19 TO SEPTEMBER 30, 1974

DAY	AUG	SEP	DAY	AUG	SEP
1	---	53	16	14	34
2	---	42	17	13	31
3	---	37	18	13	29
4	---	50	19	12	28
5	---	59	20	13	28
6	---	49	21	15	34
7	---	65	22	15	82
8	---	44	23	15	89
9	---	87	24	14	82
10	---	63	25	13	67
11	---	53	26	12	64
12	16	45	27	13	79
13	16	38	28	13	111
14	16	35	29	36	292
15	15	35	30	58	188
			31	63	---
			TOTAL	---	2049
			MEAN	---	68.3
			MAX	---	292
			MIN	---	28

NOTE.--No gage-height record Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	46	70	130	201	342	207	118	50	25	17	55
2	140	78	120	140	181	290	194	109	49	25	15	45
3	120	70	230	135	172	253	224	115	46	28	15	36
4	105	95	300	125	152	229	441	118	48	24	24	31
5	90	110	270	120	142	202	483	119	50	21	20	28
6	76	100	220	110	138	188	435	122	66	20	17	27
7	65	90	190	140	145	180	363	119	87	19	31	26
8	56	82	170	180	141	181	300	110	91	20	55	26
9	48	76	220	220	137	178	260	103	85	22	85	26
10	43	74	260	260	127	168	233	97	75	28	85	28
11	39	70	240	320	133	158	210	93	66	45	72	24
12	37	74	230	370	124	155	193	87	59	58	51	25
13	36	78	210	430	123	169	181	95	76	62	41	38
14	35	80	200	500	126	174	171	127	93	64	33	50
15	35	75	190	470	126	173	165	132	96	60	27	59
16	80	70	180	390	126	169	157	135	94	47	24	47
17	170	66	220	300	126	181	149	138	90	40	23	40
18	250	64	240	320	126	185	143	128	96	36	23	35
19	210	62	240	420	130	183	140	115	86	34	20	33
20	180	75	225	420	144	264	136	102	75	33	19	33
21	155	90	210	370	151	385	134	90	63	40	18	31
22	140	110	200	300	153	389	130	82	55	37	18	31
23	120	110	185	250	166	338	122	76	50	39	18	46
24	100	100	175	220	261	285	123	72	46	37	18	97
25	88	95	160	320	548	269	134	65	41	35	18	154
26	80	95	155	400	651	251	143	62	38	34	18	177
27	74	88	150	320	558	225	143	59	35	32	19	198
28	68	84	140	270	430	204	134	58	32	29	20	216
29	66	78	130	250	---	189	120	57	30	25	20	198
30	65	73	120	220	---	190	121	53	28	21	32	167
31	80	---	120	219	---	209	---	51	---	19	54	---
TOTAL	3011	2498	5970	8639	5738	6956	6089	3007	1896	1059	950	2027
MEAN	97.1	83.3	193	279	205	224	203	97.0	63.2	34.2	30.6	67.6
MAX	250	110	300	500	651	389	483	138	96	64	85	216
MIN	35	62	70	110	123	155	120	51	28	19	15	24
WTR YR 1975 TOTAL	47840		MEAN 131		MAX 651	MIN 15						

NOTE.--No gage-height record Oct. 1 to Nov. 6, Nov. 11 to Jan. 30, July 9 to Aug. 4, Aug. 7.

CHARLES RIVER BASIN

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.

LOCATION.--Lat 42°15'22", long 71°15'38", Norfolk County, on right bank 0.3 mi (0.5 km) downstream from highway bridge at Charles River Village, 0.8 mi (1.3 km) downstream from Noanet Brook, and 1.3 mi (2.1 km) northeast of Dover.

DRAINAGE AREA.--184 mi² (477 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft (27.359 m) above mean sea level.

REMARKS.--Records good. Flow affected by diversions to and from basin for municipal supplies.

AVERAGE DISCHARGE.--38 years, 296 ft³/s (8.383 m³/s).

EXTREMES.--Period of record: Maximum discharge, 3,220 ft³/s (91.2 m³/s) Aug. 23, 1955 (gage height, 9.24 ft or 2.816 m) and Mar. 22, 1968 (gage height, 8.72 ft or 2.658 m); minimum, 0.5 ft³/s (0.014 m³/s) Oct. 24, 1952 (caused by unusual regulation); minimum daily, 0.9 ft³/s (0.025 m³/s) Oct. 24, 1952.

Maximum discharge since flood of 1886, that of August 1955 and March 1968. Flood of March 1936 reached a discharge of 3,170 ft³/s (89.8 m³/s), by computation of flow over dam at site 0.2 mi (0.3 km) above station.

Current year: Maximum discharge, 987 ft³/s (28.0 m³/s) Mar. 1 (gage height, 3.79 ft or 1.155 m); minimum daily, 29 ft³/s (0.82 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	166	155	289	574	983	494	253	103	51	37	105
2	374	171	267	291	531	937	477	246	98	48	34	100
3	340	170	388	296	483	865	533	245	92	47	29	81
4	275	168	438	293	410	787	640	249	101	48	30	68
5	220	172	462	279	358	716	691	254	104	44	34	57
6	178	183	447	254	280	654	766	259	154	39	36	51
7	153	193	404	300	386	599	804	254	184	36	73	46
8	131	192	380	363	358	555	801	241	196	34	131	43
9	112	182	473	468	327	504	766	221	194	34	187	42
10	102	171	501	573	280	473	716	211	173	55	149	38
11	94	161	534	633	300	442	663	198	154	40	187	39
12	87	153	545	693	289	418	606	191	146	113	159	58
13	79	157	527	774	275	416	557	213	166	133	126	86
14	77	161	496	848	274	406	512	265	191	139	94	74
15	75	163	454	855	268	414	472	271	205	130	72	87
16	167	161	418	857	270	412	433	287	200	110	59	88
17	308	151	486	838	269	412	403	290	193	90	51	75
18	374	144	487	808	271	418	375	283	200	74	47	66
19	404	139	506	820	286	416	353	258	194	65	41	59
20	397	144	513	789	311	501	328	232	172	63	37	56
21	360	182	500	756	332	540	306	203	150	78	35	55
22	309	206	476	740	343	596	294	186	130	71	33	54
23	254	224	442	702	366	646	280	181	110	75	30	99
24	215	225	414	663	497	664	277	173	96	72	31	186
25	195	215	393	644	727	675	283	157	83	69	32	314
26	177	215	361	664	837	655	298	144	75	66	33	379
27	163	202	327	653	925	610	301	127	68	65	32	467
28	153	189	310	657	978	576	296	121	64	61	30	473
29	145	176	297	654	---	547	280	116	60	53	30	463
30	140	165	288	641	---	534	262	108	54	45	109	440
31	161	---	282	611	---	511	---	107	---	40	94	---
TOTAL	6580	5301	12971	18706	11805	17882	14267	6544	4110	2138	2152	4254
MEAN	212	177	418	603	422	577	476	211	137	69.0	69.4	142
MAX	404	225	545	857	978	983	804	290	205	139	199	473
MIN	75	139	155	254	268	406	262	107	54	34	29	38
CAL YR 1974	TOTAL	120544	MEAN 330	MAX 1060	MIN 22							
WTR YR 1975	TOTAL	106710	MEAN 292	MAX 983	MIN 29							

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued
(National Stream-Quality Accounting Network Station)

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1974 to current year.

BIOLOGICAL DETERMINATIONS: October 1974 to current year.

WATER TEMPERATURES: November 1974 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor since November 1974.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES.--Period November 1974 to September 1975:

SPECIFIC CONDUCTANCE: Maximum recorded, 250 micromhos Aug. 22, 1975; minimum recorded, 139 micromhos April 7, May 7, 1975.

WATER TEMPERATURES: Maximum, 30.5°C Aug. 2, 1975; minimum, freezing point on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.									
21...	1600	354	195	6.7	--	7.0	10.8	1400	2200
NOV.									
12...	1300	152	197	6.8	10.0	8.0	9.7	2400	1100
DEC.									
10...	0730	493	148	6.6	-2.0	3.0	11.5	8500	1300
JAN.									
20...	1400	786	155	6.6	-6.0	.5	12.0	790	842
FEB.									
18...	1200	270	212	7.3	5.5	.0	13.3	400	108
MAR.									
24...	1300	660	153	6.6	9.0	6.0	12.3	1700	--
APR.									
22...	1300	293	175	7.1	9.0	10.5	11.5	13000	850
JUNE									
10...	1130	175	198	6.8	22.0	16.5	8.6	3300	9700
JULY									
07...	1030	37	196	6.8	23.5	24.5	6.1	11000	150
AUG.									
06...	0800	36	210	6.6	23.0	25.0	7.1	100000	4400
SEP.									
08...	1245	43	238	7.1	20.0	20.0	9.1	18000	200

DATE	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOC- CI (COL- ONIES PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.								
21...	110	817	.37	1.1	.73	.27	--	--
NOV.								
12...	33	812	.67	1.3	.67	.33	65	27
DEC.								
10...	120	320	.45	1.0	.57	.13	38	51
JAN.								
20...	816	44	.48	.82	.34	.06	31	66
FEB.								
18...	22	43	.72	1.3	.61	.15	22	16
MAR.								
24...	--	--	.30	.69	.39	.10	--	--
APR.								
22...	22	--	.33	.69	.36	.15	--	--
JUNE								
10...	81	824	.65	1.5	.87	.33	--	--
JULY								
07...	180	180	.07	.85	.78	.38	--	--
AUG.								
06...	81500	90	.00	1.5	1.5	.42	--	--
SEP.								
08...	8100	82	.00	.84	.84	.23	--	--

CHARLES RIVER BASIN

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)
NOV. 12...	8.9	510	340	50	0	50	12	2.9	19	2.3
FEB. 18...	1.9	300	180	50	0	50	10	2.8	19	1.9
APR. 22...	2.3	400	250	60	0	60	15	1.9	17	1.1
JULY 07...	1.5	630	300	130	60	70	11	2.9	20	1.8
SEP. 08...	5.0	540	240	100	70	30	18	3.1	22	2.5

DATE	BICARBONATE (HC03) (MG/L)	CARBONATE (C03) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (S04) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
NOV. 12...	22	0	18	17	32	.3	131	106	42	24
FEB. 18...	20	0	16	14	35	.1	108	95	37	20
APR. 22...	17	0	14	13	31	.3	107	90	45	31
JULY 07...	29	0	24	12	33	.3	95	97	39	16
SEP. 08...	28	0	23	19	37	.2	140	121	58	35

DATE	CARBON DIOXIDE (C02) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)
NOV. 12...	5.6	--	0	0	0	0	0	0	<10	<10
FEB. 18...	1.6	7.3	0	0	1	0	0	1	0	0
APR. 22...	2.2	28	2	2	0	0	0	0	10	10
JULY 07...	6.6	6.1	1	0	1	1	0	1	<10	<10
SEP. 08...	3.6	7.6	0	0	0	0	0	0	<10	<10

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
NOV. 12...	0	0	0	0	0	0	0	2	0	2
FEB. 18...	0	0	0	2	10	10	0	2	0	7
APR. 22...	0	0	0	1	0	0	0	5	0	5
JULY 07...	0	0	0	0	10	0	10	14	12	2
SEP. 08...	0	0	0	0	10	10	0	8	4	4

CHARLES RIVER BASIN

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01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV.									
12...	<.5	.0	<.5	0	0	0	10	0	10
FEB.									
18...	<.5	.0	<.5	0	0	0	30	10	20
APR.									
22...	<.5	.0	<.5	0	0	0	10	0	10
JULY									
07...	.7	.2	<.5	1	0	1	20	10	10
SEP.									
08...	<.5	.0	<.5	0	0	0	10	0	40

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), NOVEMBER 1974 TO OCTOBER 1975

DAY	NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	179	173	177	171	160	161
2	---	---	---	173	163	169	186	169	177
3	---	---	---	---	---	---	170	168	169
4	---	---	---	---	---	---	171	169	170
5	---	---	---	---	---	---	175	172	174
6	---	---	---	---	---	---	179	175	178
7	---	---	---	---	---	---	183	173	177
8	---	---	---	---	---	---	190	175	181
9	---	---	---	---	---	---	---	---	---
10	---	---	---	153	151	152	179	174	176
11	---	---	---	151	144	148	180	163	175
12	184	180	182	145	142	143	166	161	163
13	185	182	184	153	140	142	165	157	162
14	187	182	185	143	140	141	164	157	161
15	185	184	184	144	143	143	163	149	156
16	188	183	186	147	144	146	154	153	154
17	187	181	184	144	142	143	159	155	157
18	184	180	182	148	145	147	165	148	159
19	183	181	182	152	148	149	171	142	150
20	184	179	182	149	147	148	155	142	148
21	184	178	181	150	149	150	159	156	158
22	---	---	---	150	149	149	165	161	162
23	---	---	---	150	150	150	169	166	168
24	---	---	---	154	150	152	171	169	170
25	---	---	---	154	153	154	175	167	170
26	191	188	189	156	152	154	173	166	168
27	201	188	194	157	154	156	167	165	167
28	194	186	189	158	155	157	---	---	---
29	186	181	184	160	157	159	166	164	165
30	181	178	180	160	158	159	167	164	166
31	---	---	---	162	159	161	166	165	165
MONTH	---	---	---	---	---	---	190	142	166

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), NOVEMBER 1974 TO OCTOBER 1974.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	167	166	166	---	---	---	---	---	---	163	157	160
2	---	---	---	---	---	---	---	---	---	161	150	156
3	---	---	---	---	---	---	---	---	---	159	151	156
4	---	---	---	---	---	---	158	153	156	156	144	153
5	185	184	184	---	---	---	153	141	150	156	140	147
6	---	---	---	---	---	---	152	141	147	154	140	147
7	193	186	189	---	---	---	147	140	142	153	140	148
8	201	191	196	---	---	---	142	139	141	153	139	144
9	196	193	194	---	---	---	144	140	143	153	146	149
10	195	194	195	---	---	---	148	144	146	---	---	---
11	202	190	197	---	---	---	150	148	149	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	210	204	207	170	169	169	153	149	151	---	---	---
14	208	194	206	170	168	169	154	151	153	---	---	---
15	208	194	206	174	168	170	157	153	155	---	---	---
16	217	209	213	168	167	168	161	159	160	---	---	---
17	217	213	215	174	146	167	165	161	163	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	218	213	215	203	170	185	173	162	166	---	---	---
20	218	207	215	176	168	172	173	167	169	---	---	---
21	215	184	199	172	167	170	176	166	169	---	---	---
22	214	181	203	175	147	173	175	166	170	---	---	---
23	217	208	214	172	168	170	181	168	176	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	150	148	149	172	166	168	---	---	---
26	---	---	---	150	142	146	171	163	166	---	---	---
27	---	---	---	151	146	149	165	159	163	---	---	---
28	---	---	---	153	142	151	166	158	161	---	---	---
29	---	---	---	---	---	---	163	157	161	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	181	139	161	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	185	183	184	215	211	213	210	176	190
2	---	---	---	188	185	187	215	211	213	212	200	206
3	---	---	---	191	189	190	217	213	215	218	210	213
4	---	---	---	193	192	192	216	213	215	218	214	216
5	---	---	---	195	193	194	215	211	213	218	213	215
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	196	195	195	213	211	212	221	216	218
8	---	---	---	199	196	197	216	210	214	223	217	220
9	---	---	---	197	195	196	217	213	216	227	221	224
10	---	---	---	197	195	196	215	202	206	236	224	229
11	---	---	---	200	179	196	220	205	214	238	233	235
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	205	200	202	227	220	223	241	236	238
14	---	---	---	211	205	208	242	227	235	243	235	239
15	---	---	---	209	203	206	246	240	243	238	233	235
16	---	---	---	209	201	205	247	245	246	237	218	231
17	---	---	---	209	203	205	247	239	245	217	200	207
18	189	187	188	206	204	204	248	244	246	220	211	215
19	186	182	184	206	204	205	247	244	246	221	217	220
20	183	182	182	207	204	206	246	242	244	223	217	220
21	181	179	180	210	206	207	246	244	245	221	215	219
22	179	177	178	215	210	212	248	243	245	223	218	220
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	219	213	216	248	244	246	232	227	229
25	---	---	---	215	212	213	246	241	243	230	207	221
26	---	---	---	218	215	217	241	236	238	210	204	207
27	184	180	182	216	213	214	238	233	235	205	199	203
28	183	178	180	213	211	212	237	232	234	204	188	197
29	180	179	180	213	211	212	236	232	234	198	188	194
30	181	180	181	216	214	215	235	230	232	198	194	197
31	183	181	182	216	212	214	232	219	224	192	186	189
MONTH	---	---	---	215	212	214	222	215	219	---	---	---
YEAR	250	139	187	220	179	205	250	202	230	243	176	217

TEMPERATURE (°C) OF WATER, NOVEMBER 1974 TO OCTOBER 1975

NOVEMBER				DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1.5	1.0	1.5	1.0	0.5	0.5
2	---	---	---	2.5	1.5	2.0	1.0	0.5	0.5
3	---	---	---	---	---	---	0.5	0.5	0.5
4	---	---	---	---	---	---	0.5	0.5	0.5
5	---	---	---	---	---	---	0.5	0.5	0.5
6	---	---	---	---	---	---	0.5	0.5	0.5
7	---	---	---	---	---	---	0.5	0.5	0.5
8	---	---	---	---	---	---	0.5	0.5	0.5
9	---	---	---	---	---	---	---	---	---
10	---	---	---	2.5	0.0	2.5	---	---	---
11	---	---	---	2.5	2.0	2.0	2.0	1.0	1.5
12	8.0	8.0	8.0	2.0	1.5	2.0	2.5	2.0	2.0
13	9.5	8.5	9.0	1.5	1.5	1.5	2.5	1.5	2.0
14	11.0	8.0	9.0	2.0	1.5	2.0	1.5	1.0	1.5
15	9.0	7.5	8.5	2.0	1.5	1.5	1.0	0.5	0.5
16	11.0	6.5	7.5	2.0	1.5	1.5	0.5	0.5	0.5
17	11.0	5.5	6.5	3.0	2.0	2.5	0.5	0.5	0.5
18	6.0	5.0	5.5	3.0	2.5	2.5	1.0	0.5	0.5
19	5.5	5.0	5.0	2.0	1.5	1.5	0.5	0.5	0.5
20	5.5	5.0	5.0	2.0	1.5	1.5	0.5	0.0	0.5
21	6.0	5.5	6.0	1.5	1.5	1.5	0.0	0.0	0.0
22	---	---	---	2.0	1.5	1.5	0.0	0.0	0.0
23	---	---	---	---	---	---	0.5	0.0	0.0
24	---	---	---	1.5	1.0	1.5	0.0	0.0	0.0
25	---	---	---	1.0	0.5	1.0	0.5	0.0	0.0
26	4.0	2.5	3.5	0.5	0.5	0.5	0.5	0.0	0.5
27	2.5	2.0	2.0	0.5	0.5	0.5	0.5	0.0	0.0
28	2.0	1.5	2.0	0.5	0.5	0.5	---	---	---
29	2.0	1.5	1.5	0.5	0.5	0.5	0.5	0.0	0.0
30	2.0	1.0	1.5	1.0	0.5	0.5	0.5	0.0	0.5
31	---	---	---	1.0	0.5	0.5	0.0	0.0	0.0
MONTH	---	---	---	---	---	---	2.5	0.0	0.5
FEBRUARY				MARCH			APRIL		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	6.5	5.5	6.0
5	0.0	0.0	0.0	---	---	---	6.0	4.5	5.0
6	---	---	---	---	---	---	5.5	3.0	4.5
7	0.0	0.0	0.0	---	---	---	5.0	3.5	4.0
8	0.0	0.0	0.0	---	---	---	5.0	3.0	4.0
9	0.5	0.0	0.0	---	---	---	5.5	4.0	4.5
10	0.0	0.0	0.0	---	---	---	6.0	4.5	5.5
11	---	---	---	---	---	---	7.0	4.5	6.0
12	---	---	---	---	---	---	8.5	6.0	7.5
13	---	---	---	6.5	3.0	3.5	8.5	7.0	8.0
14	0.5	0.0	0.0	7.0	3.0	4.5	8.5	7.0	8.0
15	0.5	0.0	0.0	6.5	3.0	4.5	8.5	6.5	8.0
16	0.5	0.0	0.0	6.5	2.0	5.5	9.0	6.5	8.5
17	0.0	0.0	0.0	6.5	5.5	6.0	9.0	8.0	8.5
18	---	---	---	6.5	4.0	5.5	10.0	8.5	9.0
19	---	---	---	7.0	4.5	5.5	10.5	9.5	10.0
20	---	---	---	6.0	5.0	5.5	11.0	10.0	10.5
21	---	---	---	7.5	6.0	7.0	11.0	10.0	10.5
22	---	---	---	---	---	---	---	---	---
23	---	---	---	7.0	6.0	7.0	10.5	10.0	10.0
24	---	---	---	6.5	6.0	6.0	---	---	---
25	---	---	---	7.0	6.0	6.5	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	7.0	6.0	6.5	---	---	---
28	---	---	---	6.0	4.0	5.5	---	---	---
29	---	---	---	6.0	2.5	5.0	---	---	---
30	---	---	---	6.0	3.5	4.5	---	---	---
31	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, NOVEMBER 1974 TO OCTOBER 1975.--Continued

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†OCT. 21	1600	CHRYSOPHYTA			†JAN. 20	1400	CHLOROPHYTA		
		..BACILLARIOPHYCEAE					..CHLOROPHYCEAE		
		..CENTRALES					..VOLVOCALES		
		..ANAUACEAE					..CHLAMYDOMONADACEAE		
		TERPSINOE	56	4			CHLAMYDOMONAS	8	1
		..COSCINODISCACEAE					..ZYGNEMALES		
		CYCLOTELLA	240	17			..DESMIDIACEAE		
		MELOSIRA	830	59			STAUSTRUM	8	1
		..PENNALES					CHRYSOPHYTA		
		..FRAGILARIACEAE					..BACILLARIOPHYCEAE		
		SYNEDRA	180	13			..PENNALES		
		..NITZSCHIA	98	7			..FRAGILARIACEAE		
		TOTAL	1,400				ASTERIONELLA	79	10
†NOV. 12	1300	CHLOROPHYTA					FRAGILARIA	79	10
		..CHLOROPHYCEAE					SYNEDRA	8	1
		..CHLOROCOCCALES					..GOMPHONEMACEAE		
		..HYDRODICTYACEAE					GOMPHONEMA	24	3
		PEDIASTRUM	290	12			..MERIDIONACEAE		
		..OCCYSTACEAE					MERIDION	8	1
		ANKISTRODESMUS	24	1			..NAVICULACEAE		
		..SCENEDESMACEAE					NAVICULA	32	4
		SCENEDESMUS	48	2			..NITZSCHIA	55	7
		TETRASTRUM	96	4			CYANOPHYTA		
		CHRYSOPHYTA					..MYXOPHYCEAE		
		..BACILLARIOPHYCEAE					..OSCILLATORIALES		
		..CENTRALES					..OSCILLATORIACEAE		
		..COSCINODISCACEAE					LYNGBYA	470	59
		CYCLOTELLA	220	9			TOTAL	790	
		MELOSIRA	1,000	42	†FEB. 18	1200	CHLOROPHYTA		
		..PENNALES					..CHLOROPHYCEAE		
		..FRAGILARIACEAE					..VOLVOCALES		
		ASTERIONELLA	170	7			..CHLAMYDOMONADACEAE		
		SYNEDRA	24	1			CHLAMYDOMONAS	24	6
		..MERIDIONACEAE					CHRYSOPHYTA		
		MERIDION	48	2			..BACILLARIOPHYCEAE		
		..NAVICULACEAE					..PENNALES		
		NAVICULA	72	3			..ACHNANTHACEAE		
		..SURIPELLACEAE					ACHNANTHES	24	6
		SURIPELLA	48	2			..FRAGILARIACEAE		
		..TABELLARIACEAE					SYNEDRA	88	22
		TABELLARIA	260	11			..MERIDIONACEAE		
		TOTAL	2,400				MERIDION	240	61
†DEC. 10	0730	CHLOROPHYTA					..TABELLARIACEAE		
		..CHLOROPHYCEAE					TABELLARIA	24	6
		..CHLOROCOCCALES					TOTAL	400	
		..SCENEDESMACEAE					CHLOROPHYTA		
		CRUCIGENIA	170	2			..CHLOROPHYCEAE		
		..SCENEDESMUS	170	2			..CHLOROCOCCALES		
		CHRYSOPHYTA					..SCENEDESMACEAE		
		..BACILLARIOPHYCEAE					SCENEDESMUS	140	8
		..CENTRALES					CHRYSOPHYTA		
		..COSCINODISCACEAE					..BACILLARIOPHYCEAE		
		CYCLOTELLA	260	3			..CENTRALES		
		MELOSIRA	430	5			..COSCINODISCACEAE		
		..PENNALES					CYCLOTELLA	34	2
		..ACHNANTHACEAE					MELOSIRA	220	13
		ACHNANTHES	170	2			..PENNALES		
		..COCCONEIS	85	1			ACHNANTHACEAE		
		..EUNOTIACEAE					ACHNANTHES	68	4
		EUNOTIA	85	1			..CYMBELLACEAE		
		..FRAGILARIACEAE					CYMBELLA	34	2
		ASTERIONELLA	85	1			..FRAGILARIACEAE		
		..FRAGILARIA	340	4			ASTERIONELLA	140	8
		..GOMPHONEMACEAE					SYNEDRA	34	2
		GOMPHONEMA	170	2			..GOMPHONEMACEAE		
		..NAVICULACEAE					GOMPHONEMA	34	2
		NAVICULA	340	4			..MERIDIONACEAE		
		..NITZSCHIA	260	3			MERIDION	100	6
		..CHRYSOPHYCEAE					..NAVICULACEAE		
		..CHRYSOMONADALES					NAVICULA	290	17
		..MALLONADACEAE					..NITZSCHIA	430	25
		MALLONAS	85	1			..TABELLARIACEAE		
		CYANOPHYTA					TABELLARIA	220	13
		..MYXOPHYCEAE					TOTAL	1,700	
		..OSCILLATORIALES							
		..NOSTOCACEAE							
		ANABAENA	680	8					
		..OSCILLATORIACEAE							
		LYNGBYA	5,100	60					
		..PHORMIDIUM	170	2					
		TOTAL	8,500						

† USED DEPTH INTEGRATED SAMPLING METHOD.

CHARLES RIVER BASIN

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
† JUNE 10	1130	CHLOROPHYTA			† AUG. 06	0800	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		...COELASTRACEAE					...HYDRODICTYACEAE		
		COELASTRUM	920	28			PEDIASTRUM	7,000	7
		...OCCYSTACEAE					...SCENEDESMACEAE		
		ANKISTRODESMUS	99	3			SCENEDESMUS		*
		DICTYOSPHAERIUM	690	21			CHRYCOPHYTA		
		CHRYCOPHYTA					..BACILLARIOPHYCEAE		
		..BACILLARIOPHYCEAE					..CENTRALES		
		..PENNIALES					...COSCONODISCACEAE		
		...FRAGILIARIACEAE					CYCLOTELLA	220	*
		ASTERIONELLA	330	10			MELOSIRA	440	*
		SYNEDRA	66	2			..PENNIALES		
		...NAVICULACEAE					...ACHNANTHACEAE		
		NAVICULA	99	3			...COCCONEIS		*
		...NITZSCHIAEAE					...EUNOTIAEAE		
		NITZSCHIA	66	2			...EUNOTIA		*
		CYANOPHYTA					...GOMPHONEMACEAE		
		..MYXOPHYCEAE					GOMPHONEMA		*
		..CHROOCOCCALES					...NAVICULACEAE		
		...CHROOCOCCACEAE					NAVICULA		*
		ANACYSTIS	1,000	31			...NITZSCHIAEAE		
		TOTAL	3,300				NITZSCHIA	880	1
† JULY 07	1030	CHLOROPHYTA					...TABELLARIAEAE		
		..CHLOROPHYCEAE					TABELLARIA		*
		..CHLOROCOCCALES					CYANOPHYTA		
		...HYDRODICTYACEAE					..MYXOPHYCEAE		
		PEDIASTRUM		*			..CHROOCOCCALES		
		...OCCYSTACEAE					...CHROOCOCCACEAE		
		ANKISTRODESMUS		*			ANACYSTIS	66,000	65
		KIRCHNERIELLA	110	1			...GOMPHOSPHAERIA	18,000	18
		...SCENEDESMACEAE					...OSCILLATORIALES		
		SCENEDESMUS	3,000	27			...NOSTOCACEAE		
		..VOLVOCALES					...ANABAENA	8,800	9
		...VOLVOCAEAE					...OSCILLATORIAEAE		
		PLEODORINA	3,100	28			LYNGBYA		*
		CHRYCOPHYTA					...OSCILLATORIA		*
		..BACILLARIOPHYCEAE					TOTAL	00,000	
		..CENTRALES							
		...COSCONODISCACEAE		*					
		COSCONODISCUS		*					
		CYCLOTELLA	110	1					
		MELOSIRA	1,400	13					
		..PENNIALES							
		...ACHNANTHACEAE		*					
		ACHNANTHES		*					
		...FRAGILIARIACEAE							
		ASTERIONELLA	1,800	16					
		...GOMPHONEMACEAE							
		GOMPHONEMA		*					
		...MERIDIONACEAE		*					
		MERIDION		*					
		...NAVICULACEAE		*					
		NAVICULA		*					
		...NITZSCHIAEAE							
		NITZSCHIA	220	2					
		...TABELLARIAEAE							
		TABELLARIA		*					
		CYANOPHYTA							
		..MYXOPHYCEAE							
		..CHROOCOCCALES							
		...CHROOCOCCACEAE							
		ANACYSTIS	990	9					
		TOTAL	11,000						

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

† USED DEPTH INTEGRATED SAMPLING METHOD.

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
SEP. 08	1245	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OCCYSTACEAE			
		OOCYSTIS	340	2	
		...SCENEDESMACEAE			
		CRUCIGENIA	340	2	
		...SCENEDESMUS	690	4	
		..ZYGNEMATALES			
		...DESMIDIACEAE			
		STAUSTRUM		*	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	340	2	
		MELOSIRA	3,800	21	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	86	*	
		...EUNOTIACEAE			
		EUNOTIA		*	
		...FRAGILARIACEAE			
		ASTERIONELLA		*	
		SYNEDRA	170	1	
		...GOMPHONEMACEAE			
		GOMPHONEMA		*	
		...MERIDIONACEAE			
		MERIDION		*	
		...NITZSCHIACEAE			
		NITZSCHIA	260	1	
		...TABELLARIACEAE			
		TABELLARIA	86	*	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		...ANACYSTIS	6,000	33	
		...OSCILLATORIALES			
		...NOSTOCACEAE			
		ANABAENA	1,400	8	
		...OSCILLATORIA	4,600	25	
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		...EUGLENALES			
		...EUGLENACEAE			
		TRACHELOMONAS		*	
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		...PERIDINIALES			
		...GLENODINIACEAE			
		GLENODINIUM		*	
		TOTAL	18,000		

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
JULY 07	27	350	170	--	--	--	POLYETHYLENE STRIP
SEP. 08	33	7.1	3.6	8.4	0.5	410	POLYETHYLENE STRIP

CHARLES RIVER BASIN

01104000 MOTHER BROOK AT DEDHAM, MASS.

LOCATION.--Lat 42°15'18", long 71°09'53", Norfolk County, on right bank 100 ft (30 m) upstream from Washington Street Bridge at Dedham and 0.4 mi (0.6 km) downstream from point of diversion from Charles River.

PERIOD OF RECORD.--Discharge: October 1931 to current year.

Chemical analyses: Water years 1959, 1969-70 (partial-record station).

Water temperatures: Water years 1959, 1969-70 (partial-record station).

GAGE.--Water-stage recorder. Concrete control since June 10, 1960. Datum of gage is 0.03 ft (0.009 m) below mean sea level. Dec. 9, 1931, to June 9, 1960, nonrecording gage at site 200 ft (60 m) upstream at same datum.

REVISIONS (WATER YEARS).--WSP 1301: 1932(M).

REMARKS.--Records good. Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park.

AVERAGE DISCHARGE.--44 years, 79.3 ft³/s (2.246 m³/s).

EXTREMES.--Period of record: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Mar. 21, 1968 (gage height, 87.18 ft or 26.572 m); maximum gage height, 92.90 ft (28.316 m) Aug. 24, 1955, from graph based on gage readings; no flow at times.

Current year: Maximum discharge, 322 ft³/s (9.12 m³/s) Mar. 1 (gage height, 83.11 ft or 25.332 m); minimum, 0.09 ft³/s (0.003 m³/s) Sept. 9-12, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	32	24	76	176	318	66	61	15	5.1	2.9	2.9
2	48	32	74	81	163	312	57	59	18	4.6	2.3	1.0
3	43	31	119	75	149	244	76	60	16	5.4	1.6	.48
4	77	34	131	74	123	269	135	58	18	4.6	1.1	.48
5	55	35	131	71	113	240	134	61	14	4.1	1.0	.48
6	37	34	127	64	88	213	143	61	32	3.3	2.2	.40
7	29	35	115	92	104	190	154	63	37	2.9	15	.26
8	24	38	107	110	106	180	153	61	38	2.5	35	.26
9	18	35	138	138	46	162	145	53	3.0	2.2	51	.16
10	16	31	142	191	76	140	130	48	3.3	12	39	.09
11	14	28	142	193	80	130	108	42	19	22	30	.09
12	12	27	135	207	78	121	86	38	20	24	26	1.5
13	11	27	131	244	73	123	71	51	23	22	21	.20
14	9.3	24	141	291	71	117	55	85	26	.73	13	.12
15	9.3	26	132	289	71	122	61	73	29	4.4	10	.12
16	52	27	118	286	71	117	114	79	29	13	5.9	.57
17	48	25	158	280	72	114	117	77	33	12	3.6	2.4
18	102	22	157	267	73	112	105	70	31	8.6	2.9	2.5
19	107	20	148	291	78	114	89	63	31	5.9	3.6	1.3
20	111	20	147	268	87	151	76	55	28	5.1	3.6	.40
21	102	34	144	253	92	177	58	46	21	8.3	2.9	.20
22	46	44	141	243	94	162	49	38	15	7.3	2.9	.12
23	71	43	129	229	100	166	66	34	11	6.2	2.7	11
24	56	40	119	214	155	165	70	32	9.0	5.6	2.2	43
25	44	41	113	210	242	164	73	27	7.6	5.9	2.0	86
26	39	50	106	221	271	156	79	24	6.2	5.6	1.9	130
27	33	41	93	210	288	140	82	20	5.6	4.3	2.3	155
28	27	35	85	202	304	117	80	19	5.6	3.8	2.0	153
29	24	31	77	204	---	94	73	17	6.2	4.1	1.7	139
30	24	27	74	209	---	89	67	15	6.2	3.3	36	123
31	31	---	71	189	---	87	---	14	---	3.1	13	---
TOTAL	1602.6	969	3669	5472	3494	5056	2772	1504	556.7	221.93	340.3	856.53
MEAN	51.7	32.3	118	193	125	163	92.4	48.5	18.6	7.16	11.0	28.6
MAX	111	50	158	291	304	318	154	85	38	24	51	155
MIN	9.3	20	24	64	71	87	49	14	3.0	.73	1.0	.09
CAL YR 1974 TOTAL	35269.40			MEAN 96.6	MAX 363	MIN 2.3						
WTR YR 1975 TOTAL	27014.05			MEAN 74.0	MAX 318	MIN .09						

01104200 CHARLES RIVER AT WELLESLEY, MASS.

LOCATION.--Lat 42°18'59", long 71°13'42", Norfolk County, on left bank at east limits of Wellesley, 30 ft (9 m) upstream from a horseshoe-shaped dam and 50 ft (15 m) upstream from bridge on State Highway 9.

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--Discharge: August 1959 to current year.
Sediment records: Water year 1968 (partial-record station).

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 67.92 ft (20.702 m) above mean sea level.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (see sta. 01104000), and by diversions to and from basin for municipal supplies. Occasional regulation at dam 0.2 mi (0.3 m) above station.

AVERAGE DISCHARGE.--16 years, 265 ft³/s (7.505 m³/s).

EXTREMES.--Period of record: Maximum discharge, 2,410 ft³/s (68.3 m³/s) Mar. 21, 1968 (gage height, 6.20 ft or 1.890 m); no flow Sept. 15, Oct. 6, 1959 (caused by closing of gates at dam at gage); minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Aug. 24, 31, Sept. 8, 1965.
Current year: Maximum discharge, 1,170 ft³/s (33.1 m³/s) July 13 (gage height, 4.93 ft or 1.503 m); minimum, 10 ft³/s (0.28 m³/s) July 14; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	165	154	274	425	790	514	244	94	56	37	145
2	305	162	248	270	454	775	446	237	86	52	35	141
3	305	185	420	274	425	740	545	236	80	43	33	115
4	274	162	341	274	354	584	706	237	86	53	33	103
5	233	164	307	270	353	637	704	237	91	55	33	91
6												
7	187	187	347	244	246	540	729	247	138	45	33	80
8	155	183	268	310	314	537	760	245	155	39	83	65
9	134	183	363	360	333	478	744	232	233	35	162	63
10	122	186	418	424	314	445	771	219	324	35	213	58
11	108	172	418	524	255	423	736	206	41	68	148	53
12												
13	47	155	444	537	274	397	693	196	130	146	191	53
14	47	144	474	567	274	377	649	183	144	140	176	67
15	41	158	431	637	266	372	597	209	174	278	169	131
16	89	162	404	714	257	357	564	246	180	180	118	103
17	83	158	401	716	253	352	396	274	191	44	91	45
18												
19	141	151	366	717	253	352	348	274	196	92	78	21
20	314	155	470	690	253	352	356	279	199	92	67	63
21	314	148	441	673	253	357	345	274	202	86	56	75
22	328	141	434	732	261	362	344	257	193	73	49	80
23	320	145	431	684	283	434	330	233	172	65	43	83
24												
25	314	187	427	636	246	445	321	209	157	80	39	83
26	296	144	417	625	310	501	261	187	142	76	33	47
27	257	209	344	605	328	544	250	176	122	71	31	89
28	221	217	376	578	456	546	261	165	103	70	31	191
29	198	264	361	568	650	618	261	148	91	67	31	274
30												
31	172	198	333	587	698	605	260	138	80	63	33	366
32	154	202	314	554	733	566	264	122	70	60	33	451
33	155	194	296	544	761	564	264	106	66	58	33	444
34	144	140	283	552	---	553	271	106	61	51	33	423
35	141	164	274	534	---	547	252	100	58	47	176	398
36	162	---	270	525	---	522	---	97	---	43	176	---
37												
38												
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TOTAL	6271	5208	11641	16215	10484	15897	14077	6369	4063	2363	2547	4401
MEAN	202	174	376	523	375	513	464	205	135	76.2	82.2	147
MAX	328	217	474	732	761	790	784	296	328	278	213	451
MIN	83	141	158	244	253	352	250	97	41	35	31	21
CAL YR 1974	TOTAL	103973	MEAN 285	MAX 820	MIN 22							
WYR 1975	TOTAL	49541	MEAN 273	MAX 790	MIN 21							

CHARLES RIVER BASIN

01104500 CHARLES RIVER AT WALTHAM, MASS.

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, on right bank 800 ft (250 m) downstream from Moody Street Bridge in Waltham and 0.3 mi (0.5 km) upstream from Beaver Brook.

DRAINAGE AREA.--227 mi² (588 km²) excludes 23.6 mi² (61.1 km²) drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--Discharge: October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.

Chemical analyses: Water years 1953, 1959, 1968-70 (partial-record station).

Water temperatures: Water years 1959, 1969-70 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft (6.102 m) above mean sea level. Prior to July 10, 1904, at dam 700 ft (200 m) upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mile (1.1 km) downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (see sta. 01104000), diversions to and from basin for municipal supplies, and at times by water released from Stony Brook Reservoir. Prior to 1960, some regulation by mills upstream. Low flow completely regulated by Boston Edison Co. powerplant above station prior to 1954.

AVERAGE DISCHARGE.--44 years (1931-75), 290 ft³/s (8.213 m³/s).

EXTREMES.--Period of record: Maximum discharge, 2,670 ft³/s (75.6 m³/s) Mar. 22, 1968 (gage height, 5.15 ft or 1.570 m); maximum gage height, 5.39 ft (1.643 m) Mar. 22, 1968 (backwater from debris); minimum discharge, 0.1 ft³/s (0.003 m³/s) Oct. 1, 12, 1943; minimum daily, 0.2 ft³/s (0.006 m³/s) Oct. 4, 1943. Minimum discharge since 1886, that of Mar. 22, 1968. Current year: Maximum discharge, 895 ft³/s (25.3 m³/s) Apr. 3, 8 (gage height, 3.00 ft or 0.914 m); minimum, 37 ft³/s (1.05 m³/s) Sept. 16; minimum daily, 40 ft³/s (1.13 m³/s) Aug. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	182	173	335	530	838	583	265	115	59	47	161
2	324	171	369	323	495	819	567	258	103	57	43	151
3	321	171	459	316	460	777	683	262	99	54	41	132
4	296	185	424	316	395	718	869	258	112	56	40	117
5	259	197	420	307	382	667	869	258	108	54	40	102
6	212	207	415	290	342	622	869	265	188	50	90	90
7	176	191	396	363	338	578	875	262	179	49	189	79
8	150	188	401	419	359	536	888	247	173	49	268	75
9	133	188	479	501	342	479	869	230	382	47	218	70
10	119	179	454	588	295	459	831	210	106	61	205	64
11	108	165	484	596	302	429	783	194	112	146	193	63
12	105	157	515	631	295	420	735	182	154	176	219	100
13	100	168	500	752	287	424	683	226	185	194	164	178
14	95	171	449	834	272	401	644	299	179	317	119	130
15	90	171	439	802	268	405	546	276	185	61	96	96
16	235	168	424	769	268	405	405	284	191	99	84	41
17	370	162	578	734	265	401	420	284	194	110	76	63
18	339	157	536	716	272	401	405	276	191	96	67	83
19	342	151	490	824	283	401	405	262	182	80	60	91
20	339	154	474	764	306	530	387	240	168	73	54	92
21	327	207	464	688	318	557	364	216	151	90	51	92
22	309	207	454	666	326	594	335	194	136	84	44	82
23	275	216	439	666	346	627	284	179	122	78	42	119
24	235	226	420	600	515	661	299	173	110	80	47	261
25	210	226	405	617	813	695	288	159	97	77	47	370
26	194	223	382	666	863	689	288	151	89	73	48	403
27	179	220	364	622	838	644	291	141	83	69	44	549
28	168	210	348	600	825	627	295	126	77	65	42	493
29	159	194	335	606	---	616	295	122	70	62	53	447
30	149	182	323	589	---	627	276	119	64	56	286	425
31	188	---	315	567	---	599	---	119	---	52	199	---
TOTAL	6817	5594	13128	18067	11600	17646	16331	6737	4305	2674	3216	5219
MEAN	220	186	423	583	414	569	544	217	144	86.3	104	174
MAX	370	226	578	834	863	838	888	299	382	317	286	549
MIN	90	151	173	290	265	401	276	119	64	47	40	41

CAL YR 1974 TOTAL 115108 MEAN 315 MAX 847 MIN 30
WTR YR 1975 TOTAL 111334 MEAN 305 MAX 888 MIN 40

NEPONSET RIVER BASIN

77

01105000 NEPONSET RIVER AT NORWOOD, MASS.

LOCATION.--Lat 42°10'39", long 71°12'05", Norfolk County, on left bank 200 ft (60 m) upstream from Pleasant Street Bridge, 200 ft (60 m) downstream from Penn Central Railroad bridge, 0.45 mi (0.72 km) downstream from Hawes Brook, and 0.5 mi (0.8 km) south of Norwood.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--Discharge: October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1958-59, 1966-68 (partial-record station).

Water temperatures: Water years 1958-59, 1966-68 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 44.04 ft (13.423 m) above mean sea level, unadjusted.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by mills and reservoirs above station. Several diversions above station for municipal and industrial use.

AVERAGE DISCHARGE.--36 years, 52.6 ft³/s (1.490 m³/s).

EXTREMES.--Period of record: Maximum discharge, 1,490 ft³/s (42.2 m³/s) Aug. 19, 1955 (gage height, 14.65 ft or 4.465 m, from floodmarks); minimum daily, 1.4 ft³/s (0.040 m³/s) Oct. 20, 1963.

Maximum discharge since 1886, that of Aug. 19, 1955. Flood of July 24, 1938, reached a stage of 11.05 ft (3.368 m), from floodmarks.

Current year: Maximum discharge, 303 ft³/s (8.58 m³/s) Feb. 25 (gage height, 7.77 ft or 2.368 m, at upstream side of railroad bridge); minimum daily, 5.0 ft³/s (0.14 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	26	26	57	79	135	73	38	20	10	7.9	21
2	46	23	97	60	72	123	67	39	18	9.3	6.7	13
3	32	20	108	53	63	102	131	47	15	8.8	6.7	10
4	27	20	84	49	54	91	216	48	17	7.9	6.7	8.8
5	22	23	63	47	54	82	194	46	16	6.3	11	8.4
6	26	27	50	43	60	76	164	45	52	6.3	8.8	6.7
7	22	27	41	86	57	73	141	40	62	5.8	45	9.3
8	16	26	57	103	54	79	128	36	40	5.0	55	13
9	15	28	96	136	54	78	115	35	33	5.4	63	5.8
10	13	27	84	171	52	68	104	34	28	18	51	6.3
11	13	23	66	159	52	64	93	35	25	13	29	5.8
12	12	20	56	154	50	66	90	29	32	31	21	17
13	12	24	48	170	50	76	86	50	50	44	17	18
14	11	23	47	200	48	72	74	60	84	37	13	20
15	10	22	48	167	50	72	71	50	72	23	11	14
16	80	22	51	132	47	70	68	52	64	17	10	17
17	120	22	123	110	47	68	64	56	59	17	12	15
18	70	17	112	111	47	68	63	45	46	15	10	9.7
19	50	16	89	155	52	67	64	39	35	13	7.1	9.0
20	40	21	74	148	59	130	64	35	28	13	6.3	9.9
21	36	43	70	117	58	142	57	32	23	20	6.3	14
22	33	47	69	97	55	121	53	30	20	16	6.3	13
23	31	36	65	90	68	107	49	29	12	11	5.4	33
24	29	37	60	85	138	92	55	27	11	8.4	11	72
25	27	34	62	103	254	91	58	25	9.3	12	9.3	113
26	25	34	59	138	230	88	59	23	8.8	12	8.8	117
27	24	32	54	120	175	77	57	22	13	12	9.3	107
28	23	29	50	99	147	67	46	21	13	11	5.8	96
29	22	29	48	95	---	68	43	20	14	9.8	6.3	79
30	21	27	47	96	---	82	39	19	12	8.8	39	52
31	24	---	47	86	---	85	---	19	---	8.4	29	---
TOTAL	998	805	2051	3437	2226	2680	2586	1126	932.1	435.2	534.7	933.7
MEAN	32.2	26.8	66.2	111	79.5	86.5	86.2	36.3	31.1	14.0	17.2	31.1
MAX	120	47	123	200	254	142	216	60	84	44	63	117
MIN	10	16	26	43	47	64	39	19	8.8	5.0	5.4	5.8

CAL YR 1974 TOTAL 20864.9 MEAN 57.2 MAX 317 MIN 6.2
WTR YR 1975 TOTAL 18744.7 MEAN 51.4 MAX 254 MIN 5.0

NOTE.--No gage-height record Oct. 11 to Nov. 4, May 12 to June 16.

LOCATION.--Lat 42°09'16", long 71°08'47", Norfolk County, on right bank 100 ft (30 m) downstream from Washington Street Bridge at Canton, 200 ft (60 m) downstream from Forge Pond Dam, and 900 ft (250 m) downstream from Massapoag Brook.

Chemical analyses: Water years 1959, 1967-68 (partial-record station).
Water temperatures: Water years 1959, 1967-68 (partial-record station).

REMARKS.--Records good. Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds above station. Diversion above station for municipal supply of Canton and Stoughton.

EXTREMES.--Period of record: Maximum discharge, 1,790 ft³/s (50.7 m³/s) Aug. 19, 1955 (gauge height, 8.18 ft or 2.493 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum daily, 0.60 ft³/s (0.017 m³/s) July 7, Sept. 1, 1957.
Current year: Maximum discharge, 273 ft³/s (7.73 m³/s) Feb. 25 (gauge height, 3.21 ft or 0.978 m); minimum daily, 0.65 ft³/s (0.018 m³/s) Aug. 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	30	26	54	73	107	66	24	14	8.9	8.2	19
2	30	25	94	56	67	106	58	23	14	8.5	7.4	13
3	26	24	109	47	61	99	116	33	13	7.9	6.8	10
4	23	26	75	44	56	92	206	28	14	7.4	6.3	8.9
5	21	27	63	42	55	85	138	23	14	6.8	9.2	7.6
6	20	30	52	39	61	81	127	26	49	6.5	8.9	6.8
7	19	27	51	80	61	78	114	26	53	6.3	31	7.4
8	17	28	56	92	57	79	109	24	31	6.3	54	8.5
9	15	26	87	104	54	73	101	23	25	5.5	50	7.9
10	15	25	70	133	53	66	95	23	22	12	32	7.4
11	15	23	58	112	50	63	88	22	20	11	19	7.4
12	14	23	62	114	49	63	85	19	20	26	15	8.9
13	14	26	68	135	50	74	79	29	52	40	14	18
14	13	23	66	172	48	68	73	38	63	28	12	16
15	12	22	63	129	46	68	67	31	41	20	31	14
16	68	22	61	113	46	67	64	34	33	16	4.8	11
17	120	21	117	103	46	68	59	36	45	14	6.5	9.9
18	70	20	94	104	47	65	55	29	49	13	7.1	11
19	48	20	75	147	53	65	54	26	36	12	4.0	13
20	39	25	66	125	58	118	55	24	29	11	5.3	8.2
21	36	43	62	106	54	117	49	22	23	16	7.1	7.6
22	33	58	62	99	52	91	45	22	20	14	7.1	16
23	31	35	60	93	62	87	43	22	18	11	6.5	29
24	29	30	57	86	118	82	49	20	16	9.2	6.0	81
25	28	29	57	100	191	85	52	17	15	8.9	6.3	133
26	26	33	56	126	150	79	51	15	16	11	6.0	98
27	25	30	51	103	113	70	47	14	13	8.5	5.5	107
28	24	28	49	89	106	65	36	16	12	7.6	5.1	84
29	23	27	47	89	---	61	31	16	11	6.8	6.3	57
30	22	25	46	92	---	77	26	14	8.0	6.3	29	47
31	28	---	46	81	---	81	---	13	---	7.9	31	---
TOTAL	945	831	2006	3009	1937	2480	2238	732	789.0	374.3	442.55	873.5
MEAN	30.5	27.7	64.7	97.1	69.2	80.0	74.6	23.6	26.3	12.1	14.3	29.1
MAX	120	58	117	172	191	118	206	38	63	40	54	133
MIN	12	20	26	39	46	61	26	13	8.0	5.5	6.5	6.8
CAL YR 1974	TOTAL	18146.90	MEAN	49.7	MAX	266	MIN	8.0				
WTR YR 1975	TOTAL	16657.35	MEAN	45.6	MAX	206	MIN	.65				

BLACKS CREEK BASIN

79

01105557 FURNACE BROOK AT QUINCY, MASS.

LOCATION.--Lat 42°15'28", long 71°00'33", Norfolk County, on left bank 20 ft (6 m) upstream from Hancock Street Bridge at Quincy, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--3.83 mi² (9.92 km²), based on storm-sewer system.

PERIOD OF RECORD.--Discharge: October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (2 m) from topographic map.

REMARKS.--Records fair. Occasional regulation at low flow.

EXTREMES.--Period of record: Maximum discharge, 291 ft³/s (8.24 m³/s) May 13, 1975 (gage height, 4.72 ft or 1.439 m); minimum, 0.11 ft³/s (0.003 m³/s) June 21, 1973; minimum daily, 0.19 ft³/s (0.005 m³/s) Aug. 20-22, 1974.

Current year: Peak discharges above base of 84 ft³/s (2.38 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 7	1015	84 2.38	3.28 1.000	Aug. 7	0815	85 2.41	3.29 1.003
Apr. 3	1600	153 4.33	3.88 1.183	Aug. 8	1700	99 2.80	3.43 1.045
May 13	2230	*291 8.24	*4.72 1.439	Aug. 30	0715	123 3.48	3.64 1.109
June 6	1000	153 4.33	3.88 1.183	Sept. 27	0530	97 2.75	3.41 1.039

Minimum discharge, 0.52 ft³/s (0.015 m³/s) July 7; minimum daily, 0.57 ft³/s (0.016 m³/s) Aug. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.5	2.9	7.0	6.1	11	5.9	3.5	3.1	1.3	.61	2.4
2	3.2	3.3	25	5.0	5.7	9.3	5.4	3.3	2.7	1.2	.57	1.7
3	2.4	2.9	12	4.1	5.4	8.4	33	3.3	3.3	1.1	.57	1.7
4	2.1	4.0	8.8	4.4	5.2	8.1	23	3.3	4.0	1.1	.57	1.3
5	2.1	5.5	6.9	4.4	5.4	7.4	16	4.5	2.6	1.1	2.1	1.1
6	1.5	4.4	6.0	3.9	6.7	7.5	13	4.0	19	.86	3.2	.97
7	1.1	4.2	5.5	18	5.1	8.1	11	3.7	5.5	.80	22	1.2
8	.89	3.8	9.9	8.4	4.6	8.2	10	3.5	4.1	.75	24	.86
9	.66	3.5	8.0	19	4.4	6.3	9.1	3.4	3.4	.95	13	.86
10	.66	3.3	6.3	15	4.2	5.6	7.8	3.3	2.8	4.7	8.0	.86
11	.77	3.0	5.5	13	4.0	5.3	7.1	3.3	2.4	1.2	5.8	.86
12	.77	3.2	5.1	12	3.9	6.2	6.5	3.2	4.1	11	4.4	7.9
13	.77	3.7	4.8	24	3.8	5.9	6.1	26	7.8	3.8	3.9	2.9
14	.77	2.9	4.9	20	3.6	5.1	6.1	27	4.4	2.6	3.2	1.7
15	.89	2.7	4.4	14	3.6	6.6	5.7	10	3.6	2.1	2.2	1.1
16	26	2.6	8.3	11	3.5	5.1	5.7	12	3.1	1.8	1.7	1.0
17	8.9	2.6	11	9.3	3.5	5.3	5.2	7.7	8.1	1.6	1.3	.89
18	6.1	2.5	7.3	16	4.0	5.2	5.1	6.4	3.8	1.3	1.0	.77
19	4.7	2.5	6.1	14	6.3	4.9	5.1	5.8	3.0	1.2	.89	.77
20	4.2	5.9	5.5	11	5.2	18	4.6	5.3	2.7	1.1	.73	.89
21	3.7	6.1	5.3	8.5	4.8	9.7	4.6	4.9	2.2	3.5	.66	1.6
22	3.5	4.7	5.8	7.8	5.0	7.9	4.7	4.5	2.1	1.0	.69	1.1
23	3.3	3.7	5.1	6.9	6.7	7.5	4.9	4.4	1.9	.89	.75	11
24	3.2	3.5	5.4	6.5	24	7.8	7.9	4.0	1.9	.69	1.8	17
25	3.2	3.7	5.3	12	27	7.6	7.1	3.6	1.6	1.5	1.1	20
26	3.2	4.4	4.9	11	20	6.7	9.2	3.3	1.4	1.0	1.1	17
27	3.2	3.3	4.0	8.5	15	6.2	7.4	3.3	1.5	.77	1.2	23
28	3.0	3.0	4.0	7.2	11	6.1	5.7	3.3	1.5	.66	.97	11
29	3.3	3.0	3.8	9.1	---	6.0	4.7	3.1	1.5	.61	1.0	8.2
30	3.5	2.9	4.1	7.9	---	9.4	4.0	2.9	1.4	.61	25	7.3
31	5.7	---	4.1	6.7	---	6.5	---	3.5	---	.61	3.7	---
TOTAL	111.98	108.3	206.0	325.6	207.7	228.9	251.6	183.3	110.5	53.40	137.71	148.93
MEAN	3.61	3.61	6.65	10.5	7.42	7.38	8.39	5.91	3.68	1.72	4.44	4.96
MAX	26	6.1	25	24	27	18	33	27	19	11	25	23
MIN	.66	2.5	2.9	3.9	3.5	4.9	4.0	2.9	1.4	.61	.57	.77
CFSM	.94	.94	1.74	2.74	1.94	1.93	2.19	1.54	.96	.45	1.16	1.30
IN.	1.09	1.05	2.00	3.16	2.02	2.22	2.44	1.78	1.07	.52	1.34	1.45
CAL YR 1974	TOTAL	1851.48	MEAN	5.07	MAX	41	MIN	.19	CFSM	1.32	IN	17.98
WTR YR 1975	TOTAL	2073.92	MEAN	5.68	MAX	33	MIN	.57	CFSM	1.48	IN	20.14

01105585 TOWN BROOK AT QUINCY, MASS.

LOCATION.--Lat 42°14'52", long 70°59'52", Norfolk County, on left bank 200 ft (61 m) downstream from Miller Stile Road at Quincy and 0.8 mi (1.3 km) upstream from Town River Bay.

DRAINAGE AREA.--4.25 mi² (11.01 km²).

PERIOD OF RECORD.--Discharge: September 1972 to current year. Prior to October 1974 published as Town River at Quincy.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (1.5 m) from topographic map.

REMARKS.--Records good. Diurnal fluctuation caused by plant above station. Flow regulated by Old Quincy Reservoir 2.2 mi (3.5 km) upstream.

EXTREMES.--Period of record: Maximum discharge, 481 ft³/s (13.6 m³/s) May 13, 1975 (gage height, 7.40 ft or 2.256 m), from rating curve extended above 160 ft³/s (4.53 m³/s); minimum, 0.19 ft³/s (0.005 m³/s) Aug. 2, 1975.

Current year: Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1600	283 8.01	5.48 1.670	Aug. 8	1645	212 6.00	4.81 1.466
May 13	2315	*481 13.6	7.40 2.256	Aug. 30	0700	240 6.80	5.13 1.564
June 6	-	309 8.75	†5.75 1.753	Sept. 27	0530	274 7.76	5.49 1.673
July 10	0530	250 7.08	5.23 1.594				

† From peak-stage indicator.

Minimum discharge, 0.19 ft³/s (0.005 m³/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	2.6	5.7	12	14	15	10	3.6	7.1	4.5	.80	8.4
2	4.7	2.4	5.5	5.7	15	12	6.8	4.5	7.1	4.0	.68	8.0
3	4.0	2.3	8.7	4.2	8.7	12	58	4.2	6.5	3.8	.80	8.7
4	3.2	3.6	7.7	4.2	4.0	11	17	3.6	8.7	.91	.80	8.0
5	2.6	4.7	6.8	3.8	4.5	9.4	16	4.5	6.0	.91	2.0	3.0
6	2.1	2.6	7.7	3.6	8.0	8.0	13	3.8	4.0	.91	2.4	2.8
7	1.7	2.6	7.7	3.4	5.2	7.7	11	3.8	5.7	1.0	37	2.6
8	1.4	2.3	16	6.8	4.5	9.4	11	4.0	4.5	1.0	44	2.4
9	1.3	2.4	11	33	4.2	7.7	10	3.8	3.8	.80	7.4	2.4
10	1.3	2.4	8.0	15	2.6	8.4	10	4.0	3.4	16	3.2	2.4
11	1.2	2.4	8.0	20	4.2	8.7	10	3.8	3.2	1.5	3.0	2.4
12	1.3	3.0	8.0	16	4.2	9.4	10	4.0	3.0	18	3.2	10
13	1.2	3.8	8.0	47	4.0	7.1	10	41	7.4	3.4	4.0	4.2
14	1.2	2.3	8.7	22	4.0	6.2	10	43	4.2	1.7	4.0	2.6
15	1.3	2.3	6.5	18	4.0	9.7	8.4	11	3.6	1.5	3.8	2.4
16	59	2.3	12	17	4.5	7.1	4.9	16	3.0	1.4	3.8	2.6
17	11	2.4	15	16	4.5	6.5	4.9	10	3.0	1.1	3.8	2.6
18	6.8	2.4	4.7	30	5.4	6.0	4.9	9.4	6.2	1.1	3.8	2.6
19	7.4	2.4	4.2	20	7.7	6.0	5.2	9.0	9.7	1.1	3.6	2.8
20	6.8	8.4	4.0	17	7.7	32	4.7	9.4	9.7	1.3	3.6	2.8
21	6.8	8.0	4.0	11	11	8.7	4.5	9.0	9.7	4.0	3.6	4.2
22	7.1	4.5	5.2	7.1	12	7.7	4.2	8.7	9.4	1.1	3.6	3.0
23	6.8	2.8	3.6	6.2	14	8.0	4.2	8.7	6.2	1.0	3.6	21
24	6.8	2.6	4.5	6.2	49	8.7	6.0	7.7	3.8	1.0	4.5	34
25	4.9	3.4	4.2	17	37	8.0	4.2	7.1	3.6	1.5	3.6	28
26	2.4	5.7	4.0	9.0	17	6.5	5.7	6.8	3.4	.80	3.6	16
27	2.3	5.7	4.7	7.1	14	6.8	4.7	7.4	3.4	.80	5.7	30
28	2.3	5.4	6.2	6.2	13	12	4.0	7.4	3.6	.91	8.7	7.4
29	2.4	5.7	6.0	10	---	12	3.6	7.1	3.6	.91	9.4	6.2
30	2.4	5.7	6.8	6.5	---	17	3.8	7.7	3.8	1.4	53	5.7
31	7.4	---	6.2	10	---	10	---	7.7	---	1.7	9.0	---
TOTAL	177.6	109.1	268.8	441.6	287.9	304.7	280.7	281.7	196.3	81.05	243.98	239.2
MEAN	5.73	3.64	8.67	14.2	10.3	9.83	9.36	9.09	6.54	2.61	7.87	7.97
MAX	59	8.4	55	47	49	32	58	43	40	18	53	34
MIN	1.2	2.3	3.6	3.6	2.6	6.0	3.6	3.6	3.0	.80	.68	2.4
CAL YR 1974	TOTAL	2970.94	MEAN 8.14	MAX 77	MIN .79							
WTR YR 1975	TOTAL	2912.63	MEAN 7.98	MAX 59	MIN .68							

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MASS.

LOCATION.--Lat 42°11'25", long 70°56'43", Norfolk County, on left bank between divided lanes of State Highway 3 and 128, 100 ft (30 m) downstream from unnamed tributary entering from left, 0.4 mi (0.6 km) upstream from Whitmans Pond, and 1.2 mi (1.9 km) north of South Weymouth.

DRAINAGE AREA.--4.29 mi² (11.11 km²).

PERIOD OF RECORD.--Discharge: May 1966 to current year.

Chemical analyses: Water years 1967-68 (partial-record station).

Water temperatures: Water years 1967-68 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 70 ft (21 m) from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--9 years, 9.61 ft³/s (0.272 m³/s), 30.42 in/yr (773 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 566 ft³/s (16.0 m³/s) Mar. 18, 1968 (gage height, 5.22 ft or 1.591 m); maximum gage height, 5.35 ft (1.631 m) Feb. 15, 1971 (ice jam); minimum discharge, 0.11 ft³/s (0.003 m³/s) Sept. 5, 6, 9, 10, 1971.

Current year: Peak discharges above base of 90 ft³/s (2.55 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1715	*81 2.29	*3.62 1.103				

Minimum discharge, 0.35 ft³/s (0.010 m³/s) Aug. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	5.5	5.0	8.9	8.3	15	8.9	5.5	2.6	.68	.39	3.6
2	4.5	5.3	3.2	10	7.2	14	8.0	5.5	2.6	.68	.39	2.4
3	7.4	4.8	3.3	8.0	6.4	11	29	6.6	2.4	.68	.35	1.7
4	6.0	5.5	1.7	7.4	5.8	10	52	6.1	3.4	.64	.35	1.5
5	5.0	6.1	1.2	6.6	6.1	8.9	28	6.6	2.9	.64	1.6	1.1
6	4.4	7.2	8.9	6.1	7.7	8.9	20	7.2	12	.60	.94	1.0
7	4.0	6.6	4.0	2.1	6.6	8.6	16	6.4	8.6	.60	9.9	.94
8	3.7	6.1	8.6	28	6.6	9.3	13	6.1	5.5	.60	18	.77
9	3.5	5.5	1.2	28	6.6	9.6	12	5.5	4.2	.60	18	.77
10	3.3	5.0	1.0	34	6.4	8.0	10	5.3	3.4	3.6	9.3	.68
11	3.1	4.8	8.3	2.3	6.2	7.4	9.3	5.3	2.9	1.6	4.8	.64
12	2.9	4.8	7.2	2.2	6.1	7.7	8.6	5.3	4.2	7.7	3.0	1.2
13	2.9	5.0	7.2	3.0	6.0	1.2	8.0	11	11	6.6	2.3	3.0
14	2.8	5.0	6.6	4.7	5.9	10	7.4	16	9.0	3.8	1.8	1.5
15	3.0	4.8	6.6	2.2	5.8	8.9	7.2	9.3	7.5	2.4	1.7	1.2
16	3.1	4.4	6.9	1.5	5.8	9.3	7.2	11	5.6	1.8	1.6	1.0
17	4.2	4.0	1.5	1.2	5.8	11	6.6	9.9	4.9	1.5	1.5	.85
18	2.1	4.0	1.2	1.3	6.1	11	6.4	7.7	4.2	1.3	1.4	.77
19	1.2	4.0	9.6	2.1	8.3	9.9	6.1	6.6	3.2	1.1	1.2	.77
20	8.6	6.4	8.0	1.7	9.3	29	6.1	5.5	2.4	1.0	1.0	.77
21	7.4	1.2	7.4	1.3	9.3	28	5.8	5.0	1.7	1.0	.94	2.3
22	6.6	1.2	7.4	1.2	9.6	16	5.3	4.6	1.5	.94	.77	1.8
23	6.1	8.6	8.0	1.0	1.2	1.3	5.0	4.4	1.4	.77	.68	5.5
24	5.8	7.4	7.4	9.3	3.1	1.2	6.4	4.2	1.2	.64	.77	2.2
25	5.0	6.6	7.4	1.4	7.1	1.2	7.2	3.6	1.1	.77	1.1	3.6
26	5.0	6.9	7.4	2.2	3.5	1.1	1.0	3.4	.94	.85	.94	2.5
27	5.0	6.6	6.6	1.5	2.1	8.9	8.6	3.4	.85	.64	.77	3.4
28	4.6	5.8	5.8	1.2	1.6	8.0	7.2	3.2	.85	.60	.64	2.3
29	4.4	5.5	5.8	1.2	---	7.7	6.4	2.9	.77	.60	.60	1.1
30	4.4	5.3	5.8	1.2	---	1.0	5.8	2.7	.77	.47	9.3	6.9
31	5.8	---	6.1	9.9	---	1.2	---	2.7	---	.43	5.5	---
TOTAL	251.2	181.5	309.0	521.2	337.9	358.1	337.5	188.5	113.58	45.83	101.53	193.66
MEAN	8.10	6.05	9.97	16.8	12.1	11.6	11.3	6.08	3.79	1.48	3.28	6.46
MAX	4.2	1.2	3.3	4.7	7.1	2.9	5.2	1.6	1.2	7.7	1.8	3.6
MIN	2.8	4.0	5.0	6.1	5.8	7.4	5.0	2.7	.77	.43	.35	.64
CFSM	1.89	1.41	2.32	3.92	2.82	2.70	2.63	1.42	.88	.35	.76	1.51
IN.	2.18	1.57	2.68	4.52	2.93	3.11	2.93	1.63	.98	.40	.88	1.68
CAL YR 1974	TOTAL	3108.33	MEAN	8.52	MAX	74	MIN	.31	CFSM	1.99	IN	26.95
WTR YR 1975	TOTAL	2939.50	MEAN	8.05	MAX	71	MIN	.35	CFSM	1.88	IN	25.49

NOTE.--No gage-height record Oct. 1-15.

NORTH RIVER BASIN

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.

LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, on right bank at downstream side of Elm Street Bridge, 0.3 mi (0.5 km) upstream from Iron Mine Brook, and 1 mi (2 km) southwest of Hanover.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

PERIOD OF RECORD.--Discharge: July 1966 to current year.

Chemical analyses: November 1969 to September 1971, water years 1970-71 (partial-record station).

Water temperatures: November 1969 to September 1971.

GAGE.--Water-stage recorder. Datum of gage is 3.16 ft (0.963 m) above mean sea level.

REMARKS.--Records excellent. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds above station.

AVERAGE DISCHARGE.--9 years, 62.7 ft³/s (1.776 m³/s) 28.10 in/yr (714 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Mar. 18, 1968 (gage height, 7.13 ft or 2.173 m); minimum, 0.18 ft³/s (0.005 m³/s) July 13, 14, 1971; minimum daily, 0.23 ft³/s (0.007 m³/s) July 14, 1971.

Current year: Peak discharges above base of 280 ft³/s (7.93 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 14	0630	304 861	4.12 1.256	Feb. 25	1700	*358 10.1	*4.39 1.338

Minimum discharge, 0.66 ft³/s (0.019 m³/s) Sept. 18; minimum daily, 5.8 ft³/s (0.16 m³/s) July 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	35	29	55	63	126	67	35	12	8.3	6.5	14
2	63	31	127	67	56	123	60	35	12	7.6	6.5	13
3	48	27	212	51	50	100	108	44	11	7.0	6.5	11
4	40	29	125	47	41	85	253	39	16	6.5	6.5	4.9
5	33	32	84	44	42	75	185	43	15	6.0	6.0	4.0
6	29	37	66	37	52	70	153	52	50	6.0	7.6	4.3
7	27	36	58	109	56	68	125	42	60	6.0	34	4.3
8	24	32	59	184	54	75	103	37	35	6.0	92	4.6
9	22	29	78	158	56	70	90	33	25	5.8	114	4.3
10	21	27	66	221	51	58	79	31	18	5.8	68	4.0
11	20	26	55	166	49	57	73	29	15	6.0	36	4.9
12	19	27	51	170	48	58	66	27	14	37	24	4.6
13	18	36	48	178	46	88	60	45	55	64	19	14
14	18	33	47	281	44	77	56	71	87	33	15	4.4
15	17	30	47	192	42	70	53	49	56	20	13	4.6
16	77	27	44	136	42	66	51	52	39	15	11	4.2
17	224	25	95	105	43	78	48	61	31	13	10	4.9
18	146	24	82	90	44	82	45	43	29	13	10	7.3
19	89	24	62	165	53	75	45	35	24	20	9.9	4.6
20	65	29	54	145	69	169	45	31	20	13	9.6	4.6
21	54	81	50	110	67	190	39	27	17	11	9.6	17
22	47	73	54	93	65	127	36	25	14	9.9	9.2	24
23	43	56	57	84	87	110	35	24	12	9.2	8.9	34
24	41	46	52	75	183	92	40	22	12	7.6	8.6	151
25	37	43	53	94	339	94	48	19	11	6.8	8.0	215
26	34	46	50	163	277	82	59	18	9.9	8.0	4.6	188
27	31	41	42	126	186	65	56	18	9.2	8.0	4.3	225
28	28	37	39	94	141	57	47	17	8.4	7.3	8.0	227
29	27	34	38	89	---	57	42	16	8.3	6.8	7.0	139
30	27	32	38	101	---	78	38	14	8.3	6.5	15	91
31	31	---	42	77	---	88	---	13	---	6.5	30	---
TOTAL	1502	1085	2004	3707	2346	2710	2205	1047	738.6	386.6	632.3	1513.0
MEAN	48.5	36.2	64.6	120	83.8	87.4	73.5	33.8	24.6	12.5	20.4	50.4
MAX	224	81	212	281	339	190	253	71	87	64	118	227
MIN	17	24	29	37	41	57	35	13	8.3	5.8	6.5	7.3
CFSM	1.60	1.19	2.13	3.96	2.77	2.88	2.43	1.12	.81	.41	.67	1.66
IN.	1.84	1.33	2.46	4.55	2.88	3.33	2.71	1.29	.91	.47	.78	1.86
CAL YR 1974	TOTAL	20975.0	MEAN	57.5	MAX	289	MIN	5.2	CFSM	1.90	IN	25.75
WTR YR 1975	TOTAL	19876.5	MEAN	54.5	MAX	339	MIN	5.8	CFSM	1.80	IN	24.40

01105870 JONES RIVER AT KINGSTON, MASS.

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, on left bank 100 ft (30 m) downstream from Elm Street Bridge, at Kingston, 2.8 mi (4.5 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi² (40.9 km²), excludes 4.09 mi² (10.59 km²) above outlet of Silver Lake from which flow is diverted for municipal supply of Brockton, Whitman, and Hanson.

PERIOD OF RECORD.--Discharge: August 1966 to current year.

Chemical analyses: November 1969 to September 1971, water years 1970-71 (partial-record station).

Water temperatures: November 1969 to September 1971.

Sediment records: Water year 1970 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

REMARKS.--Records fair. Flow regulated by pond above station. Flow affected at times during springs of 1968-75 by wastage from 4.09 mi² (10.59 km²) above outlet of Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

AVERAGE DISCHARGE.--9 years, 31.6 ft³/s (0.895 m³/s).

EXTREMES.--Period of record: Maximum discharge, 575 ft³/s (16.3 m³/s) Mar. 19, 1968 (gage height, 4.60 ft or 1.402 m); maximum gage height, 4.65 ft (1.417 m) May 26, 1967 (backwater from tide); minimum daily discharge, 0.59 ft³/s (0.017 m³/s) Aug. 11, 1966.

Current year: Maximum discharge, 89 ft³/s (2.52 m³/s) Feb. 25 (gage height, 3.16 ft or 0.968 m); maximum gage height, 4.03 ft (1.228 m) Dec. 2 (backwater from tide); minimum daily discharge, 0.86 ft³/s (0.024 m³/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	4.2	5.1	7.0	31	47	31	21	11	4.6	7.9	21
2	12	11	13	8.9	25	45	31	19	10	5.1	7.0	17
3	10	6.5	28	8.9	24	42	37	17	10	4.6	7.0	16
4	7.9	7.0	28	8.9	21	34	69	17	10	5.1	6.5	16
5	6.1	3.2	24	8.9	21	33	75	17	11	7.0	7.0	16
6	6.1	5.1	19	8.9	27	28	69	25	20	8.0	7.9	17
7	6.1	6.1	14	20	30	27	62	28	30	7.0	23	17
8	6.1	6.1	14	28	30	22	59	28	28	7.0	52	17
9	6.5	6.1	15	33	30	24	55	25	22	7.0	47	17
10	7.0	6.1	12	52	30	24	47	24	19	6.5	39	16
11	7.0	5.1	11	47	28	24	40	22	15	6.1	30	16
12	5.1	14	8.9	45	31	34	37	21	13	16	22	17
13	5.1	7.9	7.9	50	31	33	33	21	22	50	19	27
14	5.1	2.8	7.9	62	27	34	31	24	44	39	15	22
15	10	5.1	6.5	62	25	34	30	24	42	28	12	17
16	11	.86	7.0	50	25	34	27	24	34	20	7.9	16
17	27	1.8	12	44	25	34	24	24	28	15	7.9	15
18	25	1.8	15	33	25	34	22	22	22	11	7.9	15
19	11	2.0	14	37	24	34	22	21	20	8.9	7.9	15
20	10	3.2	13	49	25	57	22	19	15	7.0	7.9	15
21	3.7	6.1	13	44	25	69	21	17	13	6.5	7.9	17
22	13	6.5	13	37	25	59	20	14	12	6.5	12	21
23	14	7.0	13	33	31	54	20	13	11	6.1	14	22
24	10	7.9	13	33	54	50	17	12	7.9	5.1	15	47
25	6.1	7.0	11	30	83	44	20	12	7.0	6.1	15	59
26	4.6	6.1	8.9	36	77	39	25	12	6.1	7.9	15	68
27	5.6	6.5	8.9	39	71	34	25	12	6.1	7.0	15	77
28	6.1	6.5	8.9	40	57	31	25	13	5.6	7.0	15	66
29	6.1	6.5	7.0	44	---	30	22	12	5.1	7.9	15	49
30	7.0	5.1	7.0	42	---	28	21	11	5.1	7.0	20	28
31	6.1	---	7.0	36	---	31	---	11	---	7.9	22	---
TOTAL	282.4	171.16	386.0	1077.5	958	1147	1039	582	504.9	337.9	507.7	799
MEAN	9.11	5.71	12.5	34.8	34.2	37.0	34.6	18.8	16.8	10.9	16.4	26.6
MAX	27	14	28	62	83	69	75	28	44	50	52	77
MIN	3.7	.86	5.1	7.0	21	22	17	11	5.1	4.6	6.5	15

CAL YR 1974 TOTAL 9429.86 MEAN 25.8 MAX 99 MIN .86
WTR YR 1975 TOTAL 7742.56 MEAN 21.3 MAX 83 MIN .86

HERRING RIVER BASIN

01105880 HERRING RIVER AT NORTH HARWICH, MASS.

LOCATION.--Lat 41°42'00", long 70°06'27", Barnstable County, on left bank 30 ft (9 m) upstream from bridge on U.S. Route 6, 0.8 mi (1.3 km) northeast of North Harwich, 1.1 mi (1.8 km) downstream from Hinckleys Pond, and 2 mi (3 km) northwest of Harwich.

DRAINAGE AREA.--About 9.4 mi² (24.3 km²).

PERIOD OF RECORD.--Discharge: June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by many ponds (some with no outlets) above station. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

AVERAGE DISCHARGE.--9 years, 10.6 ft³/s (0.300 m³/s).

EXTREMES.--Period of record: Maximum discharge, 59 ft³/s (1.67 m³/s) Sept. 3, 1972 (gage height, 4.43 ft or 1.350 m); maximum gage height, 4.88 ft (1.487 m) June 6, 1967; minimum discharge, 0.85 ft³/s (0.024 m³/s) Oct. 4-9, 1966.

Current year: Maximum discharge, 24 ft³/s (0.68 m³/s) June 6 (gage height, 3.05 ft or 0.930 m); maximum gage height, 3.09 ft (0.942 m) Oct. 5; minimum discharge, 2.01 ft³/s (0.057 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.0	3.6	4.3	6.0	4.0	10	16	14	10	4.3	4.6
2	4.6	3.5	3.9	4.4	6.7	4.3	10	16	15	9.9	6.3	4.6
3	4.1	3.4	4.5	4.4	8.0	4.8	10	14	13	9.4	5.1	4.4
4	4.0	3.7	5.2	4.3	7.8	4.9	11	13	12	8.9	4.9	5.8
5	4.7	4.0	5.7	4.2	8.0	5.1	11	16	12	7.4	4.9	7.6
6	3.8	4.0	5.4	4.1	8.5	5.3	10	16	16	4.1	4.9	6.7
7	3.7	3.8	5.0	4.2	8.5	5.6	11	18	16	4.0	7.8	7.4
8	3.2	3.7	4.5	4.4	8.5	6.0	11	23	15	4.0	5.8	12
9	2.6	3.7	4.6	4.6	8.0	6.2	11	22	14	3.8	4.9	7.4
10	2.2	3.7	4.8	5.0	8.5	6.2	11	20	14	4.1	5.1	5.3
11	3.2	3.8	5.0	5.5	8.7	6.5	11	19	14	4.1	5.1	4.9
12	3.4	4.3	5.2	6.2	9.2	7.6	11	19	13	4.1	5.1	4.9
13	3.0	4.3	4.9	7.0	10	8.9	9.6	17	14	4.4	5.3	5.4
14	2.9	3.9	4.6	8.0	10	8.7	10	17	14	5.4	5.3	4.8
15	2.6	3.7	4.4	9.0	9.6	8.2	9.9	17	15	8.2	5.3	4.6
16	4.0	3.6	4.3	8.4	9.2	8.2	9.6	16	15	8.0	5.3	4.3
17	4.6	3.5	4.3	7.0	8.9	8.0	10	16	14	7.6	5.3	4.1
18	4.1	3.5	4.9	6.0	9.9	8.5	9.6	16	14	7.6	5.3	4.0
19	4.1	3.5	6.0	5.5	10	10	9.4	15	14	7.4	5.1	4.0
20	4.0	3.5	6.0	6.4	9.2	11	10	15	14	7.2	4.9	3.8
21	2.9	3.6	5.8	7.4	8.7	9.6	11	15	14	6.7	4.9	3.8
22	2.9	4.0	5.4	7.0	7.4	10	11	15	13	6.3	4.9	3.8
23	3.1	4.5	5.0	6.4	7.4	10	12	14	12	6.3	4.9	4.3
24	4.3	4.6	4.8	6.0	8.5	10	12	14	12	6.2	4.4	9.4
25	3.4	4.4	4.5	5.8	10	10	14	14	12	5.8	4.6	8.5
26	4.0	4.2	4.4	6.6	10	10	15	13	11	6.3	4.6	7.8
27	3.7	4.0	4.3	5.0	8.0	10	16	12	11	6.2	4.6	8.0
28	3.5	3.9	4.3	4.0	4.8	9.9	16	12	11	6.0	4.6	7.6
29	3.4	3.7	4.2	4.3	---	9.6	16	13	11	5.8	4.4	7.6
30	3.5	3.5	4.2	4.6	---	9.9	16	12	11	5.4	4.9	7.4
31	3.8	---	4.2	5.3	---	10	---	13	---	4.0	4.9	---
TOTAL	111.9	115.5	147.9	175.3	238.0	247.0	345.1	488	400	194.6	157.7	178.8
MEAN	3.61	3.85	4.77	5.65	8.50	7.97	11.5	15.7	13.3	6.28	5.09	5.96
MAX	4.7	4.6	6.0	9.0	10	11	16	23	16	10	7.8	12
MIN	2.2	3.4	3.6	4.0	4.8	4.0	9.4	12	11	3.8	4.3	3.8

CAL YR 1974 TOTAL 3808.4 MEAN 10.4 MAX 19 MIN 2.2
WTR YR 1975 TOTAL 2799.6 MEAN 7.67 MAX 23 MIN 2.2

NOTE.--No gage-height record Nov. 8 to Jan. 29.

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	2.8	3.8	9.0	16	27	16	12	7.7	3.8	1.7	.38
2	3.3	2.8	10	11	14	26	15	11	8.5	3.6	1.3	.38
3	3.3	2.6	17	9.5	11	23	23	11	7.4	3.3	.89	.38
4	2.4	2.6	16	8.6	9.5	19	61	10	6.8	3.1	.77	.25
5	1.5	2.6	13	8.0	9.0	17	53	10	6.0	2.8	.55	.20
6	1.2	2.8	9.4	7.6	10	15	39	10	18	2.6	.46	.20
7	1.0	2.7	7.4	17	12	14	29	9.7	30	2.4	2.4	.20
8	.89	2.6	7.1	28	11	15	23	9.3	23	2.1	3.3	.20
9	.89	2.4	8.2	30	11	14	18	8.7	17	1.9	3.8	.20
10	.77	2.2	7.8	33	10	13	15	8.1	11	1.7	3.6	.16
11	.65	2.1	7.1	37	9.6	13	13	7.7	8.0	1.7	3.1	.16
12	.55	1.9	6.5	33	9.2	13	12	7.4	7.0	6.8	2.1	.15
13	.55	2.3	6.2	35	9.8	17	11	8.7	89	13	1.5	.27
14	.55	2.3	6.2	55	9.0	17	11	10	167	16	1.0	.24
15	.55	2.3	6.2	43	8.6	18	10	10	90	12	.65	.21
16	3.3	2.1	6.2	32	8.6	18	9.6	15	48	7.5	.55	.19
17	8.2	2.0	11	24	9.0	18	9.2	22	33	5.5	.46	.17
18	6.9	1.9	13	21	10	17	8.8	20	25	4.3	.38	.16
19	7.2	1.9	12	33	14	16	8.7	16	19	3.8	.31	.19
20	6.6	2.5	10	39	20	22	8.7	12	14	3.6	.25	.16
21	5.7	7.9	8.6	33	24	29	8.4	10	9.8	3.3	.20	.19
22	4.6	8.5	8.6	27	24	25	7.9	8.8	7.8	2.8	.20	.16
23	3.8	8.2	8.6	22	26	21	7.5	7.9	6.8	2.4	.16	.53
24	3.1	7.4	8.4	19	47	18	9.4	7.3	6.1	2.1	.13	12
25	2.8	6.8	8.2	23	94	22	18	7.5	5.8	2.1	.16	20
26	2.8	6.5	8.6	37	73	21	31	7.2	5.5	6.8	.16	24
27	2.6	5.5	8.0	35	46	17	31	6.9	4.9	5.5	.16	20
28	2.4	4.9	7.5	28	32	14	24	6.4	4.6	4.9	.16	15
29	2.1	4.6	7.2	23	---	13	18	5.9	4.3	4.1	.16	11
30	2.1	4.1	7.0	21	---	14	14	5.4	4.1	3.1	.25	7.6
31	2.6	---	7.2	18	---	17	---	6.9	---	2.4	.25	---
TOTAL	88.70	111.8	272.0	799.7	587.3	563	563.2	308.8	695.1	141.0	31.06	114.93
MEAN	2.86	3.73	8.77	25.8	21.0	18.2	18.8	9.96	23.2	4.55	1.00	3.83
MAX	8.2	8.5	17	55	94	29	61	22	167	16	3.8	24
MIN	.55	1.9	3.8	7.6	8.6	13	7.5	5.4	4.1	1.7	.13	.15
CFSM	.36	.47	1.11	3.26	2.65	2.30	2.38	1.26	2.93	.58	.13	.48
IN.	.42	.53	1.28	3.76	2.76	2.65	2.65	1.45	3.27	.66	.15	.54
CAL YR 1974	TOTAL	3770.29	MEAN	10.3	MAX	68	MIN	.04	CFSM	1.30	IN	17.73
WTR YR 1975	TOTAL	4276.59	MEAN	11.7	MAX	167	MIN	.13	CFSM	1		

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER AT STATE FARM, NEAR BRIDGEWATER, MASS.

LOCATION.--Lat 41°56'05", long 70°57'18", Plymouth County, on right bank at State Farm, 1 mi (2 km) upstream from Sawmill Brook, 3.5 mi (5.6 km) northwest of Middleboro, and 4 mi (6 km) southeast of Bridgewater.

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--Discharge: October 1929 to current year. Prior to October 1969, published as "at State Farm." Chemical analyses: Water years 1953, 1967-74 (partial-record station).

Water temperatures: Water years 1967-69, 1971-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 9.61 ft (2.929 m) above mean sea level. Prior to Oct. 1, 1931, inverted nonrecording gage at site 40 ft (12 m) downstream with zero of gage at 10.02 ft (3.054 m) on present gage. Oct. 1, 1931, to June 8, 1934, nonrecording gage and June 9, 1934, to Oct. 12, 1939, water-stage recorder, at site 40 ft (12 m) downstream at present datum.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), 1935(M).

REMARKS.--Records good. Flow affected by diversions to and from basin above station for municipal supplies. Flow regulated by reservoirs and small powerplants above station.

AVERAGE DISCHARGE.--46 years, 464 ft³/s (13.14 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 20, 1968 (gage height, 14.48 ft or 4.414 m); minimum, 8 ft³/s (0.23 m³/s) Sept. 10, 1944; minimum daily, 9 ft³/s (0.25 m³/s) Sept. 9-12, 1944. Current year: Maximum discharge, 1,850 ft³/s (52.4 m³/s) Feb. 26 (gage height, 7.33 ft or 2.234 m); minimum, 59 ft³/s (1.67 m³/s) Aug. 4; minimum daily, 61 ft³/s (1.73 m³/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	631	226	205	331	575	1220	656	338	162	131	72	169
2	505	229	383	416	492	1130	606	308	161	114	69	137
3	415	215	471	378	430	992	672	319	152	104	65	123
4	327	212	424	349	373	875	1360	334	161	98	61	113
5	255	233	705	321	329	774	1550	329	158	95	65	98
6	208	240	612	284	337	703	1450	401	271	94	85	86
7	182	233	508	402	411	651	1310	384	494	97	167	83
8	164	259	444	776	428	633	1160	350	412	101	301	84
9	143	212	473	829	418	625	1020	332	341	99	448	84
10	132	208	475	1120	374	583	894	313	282	101	414	80
11	124	192	427	1120	366	558	796	307	235	109	305	73
12	119	182	387	1110	348	548	715	312	206	188	231	71
13	117	189	358	1120	351	641	653	336	373	402	184	152
14	114	198	332	1460	358	669	601	383	707	390	150	153
15	119	185	320	1500	344	663	559	336	697	329	126	122
16	192	173	301	1260	341	662	524	364	592	221	110	111
17	661	158	457	1010	347	684	486	428	481	175	98	102
18	765	149	542	829	361	690	465	378	422	149	91	93
19	631	146	493	973	428	671	456	332	365	141	86	90
20	529	149	443	1050	543	956	443	294	314	126	78	109
21	455	327	397	932	582	1270	425	267	274	118	74	126
22	374	428	388	808	594	1160	400	262	241	113	78	237
23	302	396	386	741	654	1030	377	244	210	102	82	260
24	267	352	363	683	885	927	379	232	203	91	73	584
25	237	318	355	718	1520	881	464	210	202	91	80	966
26	240	298	340	952	1820	816	449	190	195	106	82	1140
27	222	282	308	960	1690	746	477	180	214	97	81	1160
28	226	255	289	834	1420	671	448	182	185	89	76	1240
29	201	233	277	739	---	616	413	168	164	89	71	1100
30	182	219	272	727	---	611	374	160	149	83	116	871
31	195	---	285	663	---	686	---	157	---	77	230	---
TOTAL	9234	7096	13224	25395	17119	24347	20582	9130	9023	4320	4249	9817
MEAN	298	237	427	819	611	785	686	295	301	139	137	327
MAX	765	428	871	1500	1820	1270	1550	428	707	402	448	1240
MIN	114	146	205	284	329	548	374	157	149	77	61	71
CAL YR 1974	TOTAL	166772	MEAN 457	MAX 1530	MIN 45							
WTR YR 1975	TOTAL	153536	MEAN 421	MAX 1820	MIN 61							

01108500 WADING RIVER AT WEST MANSFIELD, MASS.

LOCATION.--Lat 42°00'00", long 71°15'38", Bristol County, on right bank 200 ft (60 m) downstream from Balcolm Street Bridge at West Mansfield, 2 mi (3 km) upstream from Hodges Brook, and 3 mi (5 km) southwest of Mansfield.

DRAINAGE AREA.--19.2 mi² (49.7 km²).

PERIOD OF RECORD.--Discharge: October 1953 to current year.

Chemical analyses: Water years 1967-68 (partial-record station).

Water temperatures: Water years 1967-68 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 120.85 ft (36.835 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1621: 1953-58 (monthly runoff). WRD Mass., N.H., R.I., Vt. 1971: 1970.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro and small diversions to and from basin for other municipal supplies.

AVERAGE DISCHARGE.--22 years, 32.0 ft³/s (0.906 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 541 ft³/s (15.3 m³/s) Mar. 19, 1968 (gage height, 6.60 ft or 2.012 m); no flow Oct. 22-24, 1957 (caused by temporary storage upstream).

Current year: Maximum discharge, 113 ft³/s 3.20 m³/s Jan. 14 (gage height, 4.75 ft or 1.448 m); minimum daily, 0.38 ft³/s (0.011 m³/s) July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	19	40	57	83	50	26	11	6.0	1.1	6.7
2	8.1	11	35	42	49	79	47	25	9.0	5.0	2.2	5.8
3	6.7	9.8	50	38	45	71	68	25	7.7	7.3	2.6	5.0
4	6.0	9.3	59	37	43	63	109	23	8.8	9.9	3.0	4.5
5	5.4	11	56	35	45	53	106	22	7.5	6.5	3.0	4.2
6	4.8	12	49	32	50	49	95	21	16	4.7	3.2	4.1
7	4.3	13	44	41	48	48	90	19	32	6.0	4.2	4.2
8	3.7	12	45	51	43	50	90	18	27	5.6	9.0	4.1
9	3.3	11	62	61	41	50	85	17	19	4.5	9.7	3.9
10	3.1	10	56	79	40	44	79	16	16	4.7	8.2	3.5
11	3.0	9.5	50	86	38	44	72	16	17	5.0	6.9	3.3
12	2.9	9.1	50	94	37	45	65	15	13	7.1	6.0	3.5
13	2.9	10	51	100	37	48	60	16	24	11	5.6	5.5
14	2.7	12	47	111	36	46	55	17	39	12	5.5	4.2
15	2.7	13	45	99	33	47	51	16	39	12	5.0	3.8
16	16	12	43	97	31	45	49	18	30	9.9	4.8	3.6
17	23	12	67	90	30	44	45	21	25	5.5	5.1	3.6
18	21	11	72	85	31	42	43	19	27	.38	5.5	3.5
19	18	10	67	100	35	41	41	18	24	.62	4.5	3.5
20	16	10	65	98	39	60	41	17	19	.83	4.4	3.8
21	15	20	61	89	37	77	38	14	16	1.5	4.2	5.5
22	13	30	59	82	35	71	35	17	13	3.1	4.4	5.6
23	12	27	55	75	37	71	33	15	12	3.1	4.4	4.7
24	11	24	52	71	51	68	34	13	11	2.3	4.4	12
25	11	22	50	72	85	68	37	11	12	1.6	5.0	23
26	10	25	52	85	92	64	37	11	9.0	1.5	5.0	22
27	9.6	24	46	78	89	56	35	12	5.6	1.3	4.8	22
28	8.8	22	42	72	86	48	33	14	6.2	1.2	4.1	18
29	8.4	21	41	71	---	47	30	12	6.2	1.0	4.1	14
30	8.0	20	39	71	---	57	28	12	6.7	.83	8.8	11
31	10	---	37	63	---	59	---	14	---	.83	8.6	---
TOTAL	281.4	454.7	1566	2245	1320	1738	1681	530	508.7	142.79	157.3	222.1
MEAN	9.08	15.2	50.5	72.4	47.1	56.1	56.0	17.1	17.0	4.61	5.07	7.40
MAX	23	30	72	111	92	83	109	26	39	12	9.7	23
MIN	2.7	9.1	19	32	30	41	28	11	5.6	.38	1.1	3.3

CAL YR 1974 TOTAL 11570.80 MEAN 31.7 MAX 137 MIN 1.2
WTR YR 1975 TOTAL 10846.99 MEAN 29.7 MAX 111 MIN .38

NOTE.--No gage-height record Oct. 18 to Dec. 9.

TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MASS.

LOCATION.--Lat 41°56'51", long 71°10'38", Bristol County, on left bank 200 ft (60 m) downstream from bridge on State Highway 140, 0.9 mi (1.4 km) upstream from confluence with Rumford River, and 1.5 mi (2.4 km) southeast of Norton.

DRAINAGE AREA.--42.4 mi² (109.8 km²).

PERIOD OF RECORD.--Discharge: June 1925 to current year.

Chemical analyses: Water year 1967-68 (partial-record station).

Water temperatures: Water year 1967-68 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 49.63 ft (15.127 m) above mean sea level. Prior to May 5, 1933, nonrecording gage at same site (at datum 0.62 ft or 0.189 m higher prior to Oct. 1, 1930, and at present datum thereafter).

REVISIONS (WATER YEARS).--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff).

REMARKS.--Records excellent. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro and small diversions to and from basin for other municipal supplies.

EXTREMES.--Period of record: Maximum discharge, 1,460 ft³/s (41.3 m³/s) Mar. 19, 1968 (gage height, 11.47 ft or 3.496 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 10, 1926.

Current year: Peak discharges above base of 280 ft³/s (7.93 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 14	1500	299 8.47	7.74 2.359	Apr. 4	1500	*314 8.89	*7.85 2.393
Feb. 25	2400	299 8.47	7.74 2.359				

Minimum discharge, 4.2 ft³/s (0.12 m³/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	63	33	36	83	130	188	120	62	19	18	5.2	17		
2	49	31	66	92	113	181	107	59	20	16	9.9	14		
3	39	29	100	83	102	164	159	61	17	11	13	11		
4	32	29	115	80	88	148	303	60	15	9.0	11	9.9		
5	28	29	110	74	89	133	273	58	20	7.5	6.1	8.5		
6	25	32	100	66	89	120	239	56	45	9.0	5.8	7.4		
7	21	32	85	90	97	112	211	53	73	7.8	14	7.4		
8	18	31	85	131	90	111	191	50	65	7.0	18	9.2		
9	16	30	120	153	87	111	179	46	51	6.4	20	18		
10	15	31	115	224	75	101	166	45	40	6.0	19	8.8		
11	14	34	110	221	81	95	153	42	32	7.0	15	6.7		
12	13	32	100	228	73	95	141	40	31	20	12	6.7		
13	12	32	95	237	72	111	129	44	57	30	11	15		
14	12	31	88	294	72	111	118	52	115	23	9.5	12		
15	12	30	84	259	68	107	108	49	97	19	12	9.2		
16	35	28	80	215	69	106	102	56	81	16	8.5	7.1		
17	116	27	120	193	68	108	96	66	67	15	9.5	6.8		
18	115	26	140	171	71	107	89	59	58	13	11	6.4		
19	80	24	130	229	76	100	86	52	54	11	9.2	6.4		
20	64	25	125	231	89	150	82	48	46	10	8.8	6.1		
21	53	48	120	200	94	203	79	44	38	9.0	7.8	11		
22	46	64	115	181	93	179	48	45	32	8.1	9.5	20		
23	42	58	108	166	101	162	62	45	26	6.4	8.5	20		
24	38	52	102	151	146	153	67	33	25	5.5	7.8	59		
25	35	48	100	160	267	150	76	28	34	6.8	9.5	103		
26	33	49	95	204	283	144	87	27	28	7.8	9.2	116		
27	31	47	88	194	229	129	86	26	26	7.1	8.8	102		
28	29	44	85	167	200	115	77	31	24	6.8	7.8	97		
29	27	41	77	158	---	105	71	28	22	6.1	6.7	74		
30	26	39	77	163	---	111	66	24	20	5.8	17	55		
31	30	---	76	148	---	129	---	15	---	6.1	24	---		
TOTAL	1169	1086	3047	5246	3112	4039	3771	1404	1278	337.2	345.1	850.6		
MEAN	37.7	36.2	98.3	169	111	130	126	45.3	42.6	10.9	11.1	28.4		
MAX	116	64	140	294	283	203	303	66	115	30	24	116		
MIN	12	24	36	66	68	95	48	15	15	5.5	5.2	6.1		
(†)	3.40	2.76	2.36	2.30	2.06	2.30	2.39	2.48	2.96	2.21	3.91	3.93		
CAL YR 1974	TOTAL	26607.7	MEAN	72.9	MAX	296	MIN	1.6	MEAN†	76.3	CFSM†	1.80	IN†	24.44
WTR YR 1975	TOTAL	25684.9	MEAN	70.4	MAX	303	MIN	5.2	MEAN†	73.1	CFSM†	1.72	IN†	23.42

01109060 THREEMILE RIVER AT NORTH DIGHTON, MASS.

LOCATION.--Lat 41°51'58", long 71°01'24", Bristol County, on right bank 800 ft (250 m) downstream from Warner Boulevard at North Dighton and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--83.8 mi² (217.0 km²).

PERIOD OF RECORD.--Discharge: July 1966 to current year.

Chemical analyses: Water years 1967-68 (partial-record station).

Water temperatures: Water years 1967-68 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversions to and from basin above station for municipal supplies may be compensating.

AVERAGE DISCHARGE.--9 years, 165 ft³/s (4.673 m³/s).

EXTREMES.--Period of record: Maximum discharge, 2,490 ft³/s (70.5 m³/s) Mar. 19, 1968 (gage height, 8.30 ft or 2.530 m); minimum, 5.3 ft³/s (0.15 m³/s) Aug. 27, 1974.

Current year: Peak discharges above base of 600 ft³/s (17.0 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 5	1015	*610	17.3	*4.75	1.448						

Minimum discharge, 14 ft³/s (0.40 m³/s) Sept. 18-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	66	76	158	255	336	207	143	50	53	18	42
2	93	67	124	166	225	320	200	139	51	49	17	34
3	73	66	177	168	199	306	238	139	50	33	21	30
4	63	66	222	163	171	278	458	139	48	27	25	25
5	56	66	220	156	167	250	594	139	39	25	25	22
6	50	68	187	144	166	228	540	137	83	24	20	21
7	46	69	165	170	167	209	477	132	122	24	41	20
8	42	69	157	209	170	202	414	126	130	23	53	19
9	38	67	174	251	168	196	368	121	122	22	58	21
10	35	62	199	317	142	189	337	112	104	21	50	27
11	34	60	223	383	160	180	310	94	85	20	42	20
12	32	62	207	405	145	177	287	87	81	49	36	22
13	31	65	182	427	144	189	263	88	165	77	30	38
14	30	67	171	522	153	195	244	101	212	65	27	28
15	29	67	164	555	147	200	229	101	232	54	24	21
16	62	64	156	484	148	196	212	110	212	47	25	16
17	146	61	178	395	146	195	199	128	176	42	23	16
18	180	56	217	323	146	195	190	122	151	40	23	15
19	188	55	252	403	148	192	176	109	132	36	24	14
20	156	58	240	458	159	240	167	99	117	30	22	14
21	127	100	214	415	169	307	161	91	99	29	19	18
22	108	115	201	371	172	336	155	83	85	27	26	27
23	96	121	191	326	181	309	128	83	78	24	24	46
24	86	114	182	294	232	277	139	83	71	22	22	110
25	78	105	183	286	417	269	161	68	65	27	24	165
26	76	101	184	345	554	259	178	63	73	29	24	190
27	72	98	169	374	491	240	181	63	69	24	24	214
28	66	92	162	348	380	219	172	67	65	22	22	192
29	61	85	155	308	---	198	161	65	60	21	19	165
30	58	81	151	295	---	193	151	59	58	21	38	137
31	59	---	150	283	---	200	---	59	---	19	48	---
TOTAL	2408	2293	5633	9902	5922	7280	7697	3150	3085	1026	894	1729
MEAN	77.7	76.4	182	319	212	235	257	102	103	33.1	28.8	57.6
MAX	188	121	252	555	554	336	594	143	232	77	58	214
MIN	29	55	76	144	142	177	128	59	39	19	17	14
CFSM	.93	.91	2.17	3.81	2.53	2.80	3.07	1.22	1.23	.39	.34	.69
IN.	1.07	1.02	2.50	4.40	2.63	3.23	3.42	1.40	1.37	.46	.40	.77
CAL YR 1974	TOTAL	52770.3	MEAN 145	MAX 609	MIN	5.6	CFSM 1.73	IN 23.43				
WTR YR 1975	TOTAL	51019.0	MEAN 140	MAX 594	MIN	14	CFSM 1.67	IN 22.65				

01109070 SEGREGANSET RIVER NEAR DIGHTON, MASS.

LOCATION.--Lat 41°50'25", long 71°08'36", Bristol County, on left bank 50 ft (15 m) upstream from twin culverts on Center Street and 1.8 mi (2.9 km) northwest of Dighton.

DRAINAGE AREA.--10.6 mi² (27.5 km²).

PERIOD OF RECORD.--Discharge: July 1966 to current year.

Chemical analyses: Water years 1967-68 (partial-record station).

Water temperatures: Water years 1967-68 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m) from topographic map.

REMARKS.--Records good except those for periods of no gage-height record or backwater from grass, which are fair.

Occasional regulation by ponds above station.

AVERAGE DISCHARGE.--9 years, 21.8 ft³/s (0.617 m³/s), 27.93 in/yr (709 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 867 ft³/s (24.6 m³/s) Mar. 18, 1968 (gage height, 7.51 ft or 2.289 m); no flow Aug. 13-22, 1966, Oct. 2, 3, 1968, Sept. 5, 6, 1969, Aug. 14-30, 1974.

Current year: Peak discharges above base of 170 ft³/s (4.81 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	-	+*220 6.23	- -				

† About.

Minimum discharge, 0.22 ft³/s (0.006 m³/s) Aug. 20-22, 24, 25, 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	7.7	7.7	23	22	45	22	12	4.5	1.2	.44	2.1
2	9.8	7.9	35	30	20	43	18	11	4.4	1.0	.33	1.5
3	7.0	7.0	67	24	17	34	56	14	3.7	.97	.30	1.0
4	5.6	6.9	48	20	15	29	155	13	4.3	.83	.26	.76
5	5.0	7.6	29	17	15	36	106	12	4.5	.76	.30	.69
6	4.5	8.9	20	14	18	24	66	12	28	.56	.30	.44
7	4.0	8.9	16	31	20	24	47	11	43	.56	1.1	.40
8	3.6	8.1	16	56	19	26	36	9.7	26	.76	3.2	.37
9	3.3	6.8	28	60	19	24	28	8.9	14	.69	4.5	.37
10	3.0	6.3	33	80	18	20	24	7.9	8.4	.76	4.0	.30
11	2.8	5.5	26	66	17	20	21	6.9	5.9	.76	2.9	.26
12	2.7	5.4	20	67	16	20	19	6.6	5.2	4.0	1.9	.44
13	2.7	5.9	17	77	16	30	17	8.1	48	16	1.0	1.2
14	2.7	6.3	16	129	15	26	15	12	91	11	.83	1.8
15	2.7	6.4	15	81	15	24	14	10	60	5.9	.50	1.4
16	9.3	5.8	15	47	15	23	13	16	33	4.2	.37	1.0
17	39	5.2	32	35	15	27	12	25	20	3.1	.33	.76
18	40	5.0	40	34	15	28	11	19	15	2.4	.33	.62
19	26	4.7	29	82	18	26	10	13	11	1.5	.30	.56
20	17	6.1	22	74	24	60	8.9	9.6	7.3	1.2	.26	.56
21	12	25	18	52	23	70	7.8	7.1	5.1	1.1	.22	.83
22	9.4	35	19	38	23	45	6.9	6.1	4.2	1.1	.30	1.1
23	8.3	27	20	31	32	35	6.5	5.3	3.6	1.0	.26	3.4
24	7.2	19	18	27	60	30	8.7	3.8	2.7	.76	.22	22
25	6.7	15	17	37	200	30	24	3.7	2.2	.83	.26	40
26	6.7	14	17	82	110	27	35	3.3	1.9	1.7	.26	40
27	6.6	12	14	65	70	23	32	3.1	1.7	1.7	.26	34
28	6.2	10	14	41	49	20	24	5.0	1.4	1.3	.26	31
29	5.5	9.1	13	33	---	20	17	4.9	1.2	.97	.22	20
30	5.1	8.5	13	37	---	23	14	3.6	1.2	.69	.97	12
31	6.2	---	14	28	---	26	---	3.9	---	.56	1.8	---
TOTAL	288.6	307.0	708.7	1518	916	938	874.8	287.5	462.4	69.86	28.48	220.86
MEAN	9.31	10.2	22.9	49.0	32.7	30.3	29.2	9.27	15.4	2.25	.92	7.36
MAX	40	35	67	129	200	70	155	25	91	16	4.5	40
MIN	2.7	4.7	7.7	14	15	20	6.5	3.1	1.2	.56	.22	.26
CFSM	.88	.96	2.16	4.62	3.08	2.86	2.75	.87	1.45	.21	.09	.69
IN.	1.01	1.08	2.49	5.33	3.21	3.29	3.07	1.01	1.62	.25	.10	.78

CAL YR 1974 TOTAL 6379.84 MEAN 17.5 MAX 134 MIN 0 CFSM 1.65 IN 22.39
WTR YR 1975 TOTAL 6620.20 MEAN 18.1 MAX 200 MIN .22 CFSM 1.71 IN 23.23

NOTE.--No gage-height record Jan. 30 to Feb. 18, Feb. 21 to Apr. 1. Backwater from grass June 19 to Sept. 30.

BLACKSTONE RIVER BASIN

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01109500 KETTLE BROOK AT WORCESTER, MASS.

LOCATION.--Lat 42°13'55", long 71°50'07", Worcester County, on right bank 75 ft (23 m) downstream from Webster Street Bridge at Worcester, 1 mi (2 km) upstream from Beaver Brook.

DRAINAGE AREA.--31.3 mi² (81.1 km²).

PERIOD OF RECORD.--Discharge: August 1923 to current year. Prior to October 1950, published as Blackstone River at Worcester. Adjusted monthly discharge, in cubic feet per second per square mile, and runoff, in inches, published in water-supply papers for 1923-58, may be subject to error because of regulation upstream.

CAGE.--Water-stage recorder. Concrete control since Oct. 28, 1937. Datum of gage is 472.86 ft (144.128 m) above mean sea level, datum of 1929.

REVISIONS (WATER YEARS).--WSP 1301: 1927(M). See also PERIOD OF RECORD.

REMARKS.--Records excellent. City of Worcester diverts flow for municipal use from about 7.0 mi² (18.1 km²) of drainage area above station; see table below for figures of diversion. Since October 1959, city diverts flow through tunnel, usually during periods of high flow; this flow included in daily discharge. No flow through diversion tunnel during year. Flow regulated by reservoirs above station.

AVERAGE DISCHARGE.--52 years, 53.4 ft³/s (1.512 m³/s), 23.17 in/yr (589 mm/yr), adjusted for diversion.

EXTREMES.--Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) Aug. 19, 1955 (gage height, 12.78 ft or 3.895 m, from floodmark), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of computation of peak flow over dam; maximum daily, 2,720 ft³/s (77.0 m³/s) Aug. 19, 1955; minimum discharge, 0.2 ft³/s (0.006 m³/s) May 17, 1940.

Current year: Maximum daily discharge, 158 ft³/s (4.47 m³/s) Feb. 25; minimum, 2.5 ft³/s (0.071 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	43	26	48	78	107	76	28	14	5.2	3.1	13
2	68	39	80	46	66	95	65	29	14	4.9	2.7	11
3	53	33	130	42	58	82	90	30	12	4.7	2.7	10
4	46	39	93	41	50	70	152	32	24	4.7	3.3	9.2
5	42	46	59	37	51	62	140	36	23	4.4	4.3	8.5
6	39	56	47	34	55	57	127	35	52	4.1	5.6	9.1
7	36	50	43	39	53	56	109	31	54	4.5	23	15
8	32	40	57	39	49	60	90	28	32	4.5	34	15
9	28	35	135	54	48	59	77	25	26	4.5	30	17
10	26	31	132	62	44	54	69	23	21	5.8	17	17
11	24	30	101	69	44	51	62	24	17	5.3	11	18
12	25	30	72	123	43	51	57	27	25	13	9.0	21
13	24	41	60	148	43	60	54	58	54	16	7.7	31
14	24	38	57	144	41	65	52	78	51	14	6.5	22
15	24	33	56	132	39	66	48	49	38	11	5.4	20
16	70	31	55	109	39	63	44	39	30	8.3	5.2	19
17	111	30	99	89	39	63	42	34	25	6.7	5.3	18
18	82	28	121	82	42	62	40	28	23	5.3	5.1	18
19	58	28	104	128	48	64	36	25	21	4.7	4.5	18
20	43	31	87	134	53	135	35	23	17	7.3	4.0	19
21	38	58	75	111	50	154	33	21	15	23	4.0	19
22	36	58	69	91	47	140	31	19	13	15	4.2	19
23	34	44	66	79	52	128	30	19	12	9.9	3.6	33
24	32	37	61	70	110	112	37	16	10	7.7	5.0	84
25	32	35	60	78	158	116	40	13	8.7	10	7.3	123
26	31	37	57	125	151	115	40	13	7.8	8.1	6.0	102
27	29	33	53	126	138	95	36	13	7.3	5.9	5.3	125
28	28	30	49	99	125	77	32	14	6.7	4.9	4.4	106
29	27	29	46	87	---	69	30	12	6.6	4.3	3.9	72
30	27	27	45	103	---	75	28	11	5.8	3.8	30	45
31	44	---	45	96	---	85	---	15	---	3.3	22	---
TOTAL	1313	1120	2240	2665	1814	2548	1802	848	665.9	234.8	285.1	1056.8
MEAN	42.4	37.3	72.3	86.0	64.8	82.2	60.1	27.4	22.2	7.57	9.20	35.2
MAX	111	58	135	148	158	154	152	78	54	23	34	125
MIN	24	27	26	34	39	51	28	11	5.8	3.3	2.7	8.5
(†)	15.9	13.8	11.1	10.4	9.85	9.79	10.2	10.8	10.7	11.2	10.1	9.84
CAL YR 1974 TOTAL	19133.8											
WTR YR 1975 TOTAL	16592.6											
MEAN 52.4												
MAX 200												
MIN 6.1												
MEAN† 63.8												
MEAN† 56.6												
CFSM† 2.04												
CFSM† 1.81												
IN† 27.68												
IN† 24.56												

† Diversion, in cubic feet per second, for municipal supply of Worcester; records furnished by city of Worcester.
‡ Adjusted for diversion.

01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MASS.

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, on right bank 800 ft (250 m) downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mi (0.5 km) upstream from Bummert Brook.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--Discharge: October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map. Prior to Dec. 7, 1939, staff gage at same site and datum.

REMARKS.--Records good. Some regulation by Lake Quinsigamond 2.3 mi (3.7 km) upstream and by ponds above station.

AVERAGE DISCHARGE.--36 years, 41.3 ft³/s (1.170 m³/s), 21.99 in/yr (559 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 820 ft³/s (23.2 m³/s) Aug. 20, 1955 (gage height, 5.15 ft or 1.570 m); no flow Aug. 6-9, 22, 1966, caused by unusual regulation.
Current year: Maximum discharge, 140 ft³/s (3.96 m³/s) Feb. 25 (gage height, 2.36 ft or 0.719 m); minimum daily, 0.94 ft³/s (0.027 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	29	23	43	69	96	56	29	17	6.6	2.7	12
2	77	28	44	43	63	89	54	29	18	5.5	2.6	11
3	67	26	65	40	59	83	67	33	16	5.5	2.5	10
4	57	28	62	38	55	76	105	34	22	4.9	2.0	7.9
5	48	32	56	37	56	69	114	37	21	4.4	1.7	6.4
6	43	39	50	34	56	64	115	34	35	3.9	1.7	5.8
7	38	37	47	37	54	61	100	31	40	3.7	8.5	6.5
8	33	35	51	38	51	62	85	29	36	3.3	18	5.6
9	29	32	87	43	49	59	72	27	32	3.0	26	6.2
10	27	29	82	48	49	54	64	25	32	3.4	22	4.9
11	24	28	73	52	49	52	58	26	26	2.9	18	3.6
12	22	26	67	65	49	51	57	25	26	6.6	16	4.0
13	20	30	62	84	49	55	57	35	37	10	14	10
14	19	28	60	100	49	53	52	53	37	11	12	8.4
15	19	29	56	91	49	56	45	54	35	10	9.3	6.4
16	38	27	55	81	49	54	43	51	32	8.9	7.5	5.4
17	63	25	69	74	49	53	42	50	29	7.8	6.3	5.0
18	60	24	72	72	47	52	39	46	27	7.1	5.6	4.4
19	54	23	66	87	41	52	39	39	29	6.1	4.5	4.1
20	49	24	62	86	42	82	42	34	27	6.0	3.3	4.6
21	43	35	58	84	42	98	41	31	23	13	2.4	4.9
22	37	39	57	79	43	98	35	28	20	14	2.3	4.8
23	35	34	54	68	49	102	33	26	17	12	1.8	9.3
24	32	32	52	63	78	79	35	24	16	9.3	1.6	28
25	29	31	52	67	131	82	38	23	15	9.8	1.8	61
26	28	36	51	86	128	80	39	21	12	9.7	1.7	68
27	27	30	48	85	115	77	38	20	11	7.5	1.9	79
28	23	27	46	77	103	72	35	19	9.9	6.1	1.5	75
29	22	26	44	75	---	67	32	17	9.5	5.2	.94	64
30	22	25	43	82	---	74	30	16	8.3	3.9	11	53
31	28	---	41	74	---	68	---	18	---	3.3	14	---
TOTAL	1205	894	1755	2033	1723	2170	1662	964	715.7	214.4	225.14	579.2
MEAN	38.9	29.8	56.6	65.6	61.5	70.0	55.4	31.1	23.9	6.92	7.26	19.3
MAX	92	39	87	100	131	102	115	54	40	14	26	79
MIN	19	23	23	34	41	51	30	16	8.3	2.9	.94	3.6
CFSM	1.53	1.17	2.22	2.57	2.41	2.75	2.17	1.22	.94	.27	.28	.76
IN.	1.76	1.30	2.56	2.97	2.51	3.17	2.42	1.41	1.04	.31	.33	.84
CAL YR 1974 TOTAL	16738.58											
WTR YR 1975 TOTAL	14140.44											
MEAN	45.9											
MAX	210											
MIN	.08											
CFSM	1.80											
IN	24.42											
WTR YR 1975 TOTAL	14140.44											
MEAN	38.7											
MAX	131											
MIN	.94											
CFSM	1.52											
IN	20.63											

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01110500 BLACKSTONE RIVER AT NORTHBRIDGE, MASS.

LOCATION.--Lat 42°09'13", long 71°39'09", Worcester County, on left bank at Northbridge, 100 ft (30 m) downstream from Sutton Street Bridge and 3.0 mi (4.8 km) downstream from Quinsigamond River.

DRAINAGE AREA.--139 mi² (360 km²).

PERIOD OF RECORD.--Discharge: October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1955, 1958, 1971 (partial-record station).

Water temperatures: Water years 1955, 1958, 1971 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79 m) from topographic map.

REVISIONS (WATER YEARS)--WSP 1301: 1940(M).

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Daily discharge includes flow diverted from Nashua River basin and, at times during 1966 and 1967, from Quabbin Reservoir to Blackstone River basin for municipal supply of Worcester.

AVERAGE DISCHARGE.--36 years, 245 ft³/s (6.938 m³/s), 23.94 in/yr (608 mm/yr), adjusted for diversion.

EXTREMES.--Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Aug. 20, 1955 (gage height, 16.74 ft or 5.102 m), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of computation of flow over dam at gage height 13.7 ft (4.18 m) and slope-area measurement at gage height 16.74 ft (5.102 m); maximum gage height, 17.53 ft (5.343 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 2 ft³/s (0.057 m³/s) Aug. 29, 1941, Sept. 5, 1942, Aug. 28, 1957.

Stage and discharge of flood of Aug. 20, 1955, are the greatest since at least 1900. Flood of Mar. 19, 1936, reached a stage of 13.7 ft (4.18 m) from floodmarks (discharge, 7,510 ft³/s or 213 m³/s, by computation of flow over dam 800 ft or 250 m above station).

Current year: Maximum discharge, 1,510 ft³/s (42.8 m³/s) Feb. 25 (gage height, 6.31 ft or 1.923 m, from peak-stage indicator); minimum daily, 71 ft³/s (2.01 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	208	164	244	436	628	428	227	154	129	102	89
2	427	196	472	252	377	580	380	233	159	129	99	76
3	356	187	597	234	338	528	674	253	154	132	89	80
4	310	215	452	222	308	488	1160	241	249	122	87	78
5	256	238	358	210	305	440	867	265	194	111	95	76
6	246	318	294	201	321	421	712	253	400	108	95	71
7	235	256	261	212	308	395	629	241	298	113	271	93
8	214	229	296	220	305	380	552	224	231	120	224	72
9	213	206	802	262	283	370	478	216	206	119	227	89
10	196	189	635	332	276	363	424	198	185	125	131	83
11	205	183	502	357	273	356	384	188	168	119	108	74
12	179	184	418	629	276	352	352	188	211	188	104	91
13	164	227	360	804	276	398	332	325	347	169	99	178
14	160	210	335	844	270	417	325	413	274	150	97	95
15	163	201	319	668	261	413	318	231	239	126	95	78
16	413	187	305	564	253	417	305	248	218	115	95	97
17	586	175	540	486	261	402	299	211	213	109	85	99
18	391	175	521	440	267	384	286	191	203	111	83	99
19	306	174	459	720	308	373	277	173	219	130	91	97
20	256	195	406	641	335	1040	271	168	191	126	85	99
21	227	324	361	544	315	1100	259	169	175	243	85	91
22	208	268	333	475	298	801	250	160	162	160	87	91
23	217	227	312	428	311	674	241	159	159	125	83	183
24	214	204	286	388	676	614	268	153	167	116	78	377
25	187	198	276	424	1410	658	271	141	164	143	91	666
26	186	215	273	662	1110	598	265	140	161	118	91	574
27	169	202	263	584	814	519	250	144	152	97	78	699
28	161	189	252	504	692	459	241	149	131	93	80	559
29	169	175	240	484	---	417	238	147	122	102	76	363
30	175	171	233	580	---	490	233	145	123	102	265	262
31	248	---	236	508	---	482	---	169	---	99	145	---
TOTAL	8017	6326	11561	14123	11663	15957	11969	6363	6029	3949	3521	5679
MEAN	259	211	373	456	417	515	399	205	201	127	114	189
MAX	586	324	802	844	1410	1100	1160	413	400	243	271	699
MIN	160	171	164	201	253	352	233	140	122	93	76	71
MEAN†	241	199	373	456	417	515	391	191	183	96.1	85.6	168
CFSM†	1.73	1.43	2.68	3.28	3.00	3.71	2.81	1.37	1.32	.69	.62	1.21
IN.†	2.00	1.60	3.09	3.78	3.12	4.27	3.14	1.59	1.47	.80	.71	1.35
CAL YR 1974 TOTAL	109589											
MEAN 300												
MAX 1430												
MIN 68												
MEAN† 285												
CFSM† 2.05												
IN† 27.82												
WTR YR 1975 TOTAL	105157											
MEAN 288												
MAX 1410												
MIN 71												
MEAN† 276												
CFSM† 1.99												
IN† 26.91												

† Adjusted for diversion from Nashua River basin to Blackstone River basin for municipal supply of Worcester. Records of diversion furnished by city of Worcester.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01111200 WEST RIVER BELOW WEST HILL DAM, NEAR UXBRIDGE, MASS.

LOCATION.--Lat 42°06'17", long 71°36'28", Worcester County, on right bank 250 ft (76 m) downstream from West Hill Dam, 2.2 mi (3.5 km) northeast of Uxbridge, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--27.9 mi² (72.3 km²).

PERIOD OF RECORD.--Discharge: March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 240 ft (73 m) from topographic map.

REMARKS.--Records good. Flow regulated by West Hill Reservoir (usable capacity, 542,000,000 ft³ or 15,350,000 m³). See table below for figures of monthend contents.

AVERAGE DISCHARGE.--13 years, 43.6 ft³/s (1.235 m³/s), 21.22 in/yr (539 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, about 370 ft³/s (10.5 m³/s) Mar. 26, 1968 (gage height, about 3.45 ft or 1.05 m); no flow for part of Aug. 17, 1967 (caused by unusual regulation); minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 12, 1963, Aug. 12 1965.
Current year: Maximum discharge, 287 ft³/s (8.13 m³/s) Feb. 26 (gage height, 3.12 ft or 0.951 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 23-25; minimum daily, 1.8 ft³/s (0.051 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	25	17	40	87	135	81	36	13	9.2	2.4	6.2
2	48	26	30	46	73	125	74	33	13	7.4	2.1	4.8
3	32	24	70	42	63	112	78	39	12	4.9	2.1	4.2
4	22	23	89	38	53	94	162	40	12	4.6	2.1	3.4
5	17	25	74	37	49	82	171	39	14	4.5	2.1	3.2
6	15	31	58	32	48	74	151	41	23	4.3	2.1	2.9
7	12	25	46	38	51	71	134	37	38	4.0	4.1	2.9
8	11	31	42	50	47	68	112	36	34	4.4	8.9	2.7
9	10	24	64	53	45	67	92	33	29	5.5	18	2.6
10	8.8	20	88	79	43	61	82	32	24	5.1	14	2.4
11	8.2	18	84	92	45	57	76	32	19	4.8	10	2.3
12	7.6	17	73	120	43	56	71	31	17	6.0	7.9	3.4
13	7.3	17	61	155	42	59	66	41	29	8.6	6.2	12
14	7.0	20	55	223	42	65	63	71	40	8.7	5.1	9.4
15	6.8	19	51	204	40	65	59	61	36	7.4	4.4	6.5
16	17	17	46	152	39	64	56	43	29	6.1	3.7	5.5
17	51	16	61	121	39	63	54	42	27	5.2	3.4	4.8
18	70	16	83	93	39	68	51	36	26	4.4	3.4	4.4
19	63	15	81	119	41	69	49	32	22	3.8	2.7	4.2
20	48	15	71	142	48	103	49	28	19	3.6	2.3	4.2
21	36	22	61	126	50	167	47	26	16	5.3	2.1	4.2
22	27	28	56	115	49	161	39	26	14	5.8	2.1	4.2
23	24	27	53	98	50	134	37	23	13	5.0	2.1	6.5
24	22	24	50	86	79	111	40	22	12	4.4	1.8	18
25	20	23	48	82	204	104	50	18	12	4.2	2.1	32
26	19	22	48	103	275	104	53	16	12	4.2	2.3	36
27	19	22	41	126	230	96	53	17	12	3.9	2.4	46
28	17	21	41	111	172	84	45	15	11	3.4	2.6	63
29	16	20	39	98	---	75	41	13	11	3.2	5.1	53
30	16	18	37	96	---	73	37	11	9.4	2.8	6.7	34
31	18	---	37	97	---	81	---	11	---	2.6	8.5	---
TOTAL	756.7	651	1755	3014	2086	2748	2173	981	598.4	157.3	144.8	388.9
MEAN	24.4	21.7	56.6	97.2	74.5	88.6	72.4	31.6	19.9	5.07	4.67	13.0
MAX	70	31	89	223	275	167	171	71	40	9.2	18	63
MIN	6.8	15	17	32	39	56	37	11	9.4	2.6	1.8	2.3
(†)	2.2	1.7	2.6	4.8	5.8	4.4	2.4	1.5	1.1	.8	1.3	2.6
MEAN†	23.6	21.5	56.9	98.0	74.9	88.1	71.6	31.3	19.8	4.96	4.86	13.5
CFSM†	.85	.77	2.04	3.51	2.68	3.16	2.57	1.12	.71	.18	.17	.48
IN.†	.97	.86	2.35	4.05	2.80	3.64	2.87	1.29	.79	.20	.20	.54
CAL YR 1974 TOTAL	17467.6			MEAN 47.9	MAX 247	MIN 3.0		MEAN† 47.7	CFSM† 1.71	IN† 23.21		
WTR YR 1975 TOTAL	15454.1			MEAN 42.3	MAX 275	MIN 1.8		MEAN† 42.3	CFSM† 1.52	IN† 20.58		

† Monthend contents, in millions of cubic feet, in West Hill Reservoir.

‡ Adjusted for change in contents in West Hill Reservoir.

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.

LOCATION.--Lat 42°01'16", long 71°34'04", Worcester County, multiple-parameter monitor on left bank 400 ft (100 m) above railroad bridge, 0.8 mi (1.3 km) southeast of Millville, and 1.4 mi (2.3 km) upstream from Branch River.

DRAINAGE AREA.--277 mi² (717 km²).

INSTRUMENTATION.--Four-parameter water-quality monitor.

PERIOD OF RECORD.--CHEMICAL ANALYSES: July 1969 to current year (no winter records in water year 1973).

WATER TEMPERATURES: July 1969 to current year (no winter records in water year 1973).

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, >1,000 micromhos May 30, June 3, 5, 1975; minimum, 49 micromhos June 30, 1973.

pH: Maximum, 8.1 July 9, 1970; minimum, 4.3 Sept. 6, 1973.

DISSOLVED OXYGEN: Maximum, 14.9 mg/l Feb. 25, 1971; minimum, 0.0 mg/l July 12, 15-20, 26-30, Aug. 2, 3, 1971.

WATER TEMPERATURES: Maximum, 29.0°C July 29, 1970; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, >1,000 May 30, June 3, 5; minimum recorded, 133 micromhos Jan. 18.

pH: Maximum recorded, 7.4 Mar. 27; minimum recorded, 5.0 June 7, but maximum and minimum may have been higher or lower during periods of no record.

DISSOLVED OXYGEN: Maximum recorded, 13.5 mg/l Nov. 23; minimum recorded, 2.0 mg/l June 20, 21, but may have been lower during period of no record July-Sept.

WATER TEMPERATURES: Maximum recorded, 27.5°C June 24, but may have been higher during period of no record in July, Aug.; minimum, freezing point on several days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO JUNE 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	278	201	242	229	214	222	223	192	207
2	---	---	---	237	201	223	223	182	205	375	196	261
3	223	220	222	256	228	245	307	173	211	374	230	296
4	233	216	223	248	233	244	189	172	182	229	206	218
5	242	229	233	241	217	232	190	178	184	228	205	216
6	252	239	247	260	215	245	201	188	195	215	202	209
7	241	234	238	233	201	209	213	201	208	213	184	197
8	241	235	239	229	218	224	217	187	209	212	187	198
9	271	242	264	237	222	230	188	138	162	290	214	250
10	274	264	268	221	194	212	161	140	156	346	253	286
11	282	259	271	198	189	193	---	---	---	343	218	278
12	302	264	285	201	189	197	---	---	---	217	166	201
13	282	268	276	213	193	204	---	---	---	165	140	152
14	279	266	271	232	175	211	---	---	---	179	139	160
15	270	260	264	192	172	182	---	---	---	164	140	154
16	265	206	240	185	173	180	---	---	---	147	139	143
17	236	139	161	189	173	182	568	180	336	162	141	150
18	181	144	164	185	175	179	447	217	293	164	133	151
19	189	177	183	184	172	178	219	204	213	350	140	214
20	196	189	192	215	176	196	211	200	207	186	154	164
21	198	196	197	230	190	205	203	192	198	240	156	200
22	216	199	208	218	173	185	195	185	188	197	181	188
23	240	212	231	198	179	190	189	180	185	204	180	191
24	262	229	245	206	193	200	194	177	183	197	185	191
25	240	226	235	201	179	196	194	180	187	192	180	186
26	258	237	247	211	189	199	195	171	177	282	174	213
27	254	217	242	229	207	219	271	202	248	171	165	167
28	214	185	196	269	221	251	247	204	225	210	165	183
29	196	181	189	244	225	234	230	201	215	211	196	202
30	217	187	203	229	216	223	250	199	226	302	201	246
31	277	216	234	---	---	---	199	191	195	223	208	216
MONTH	302	139	230	278	172	210	568	138	208	375	133	203

BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO JUNE 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	216	207	212	192	176	183	---	---	---	238	223	232
2	212	201	207	215	180	195	---	---	---	241	226	234
3	205	201	203	196	186	189	---	---	---	249	225	236
4	234	206	217	208	191	201	---	---	---	241	208	225
5	237	217	226	212	199	205	---	---	---	226	206	219
6	242	218	227	219	201	207	---	---	---	217	205	209
7	374	237	277	218	194	207	---	---	---	233	219	227
8	384	274	317	211	193	206	---	---	---	234	224	231
9	286	235	260	207	197	204	---	---	---	242	225	237
10	242	220	232	201	198	200	---	---	---	249	233	242
11	266	243	255	223	201	210	---	---	---	243	228	237
12	282	246	261	310	220	259	---	---	---	242	232	237
13	250	228	239	291	237	258	---	---	---	277	230	240
14	251	233	240	283	227	251	---	---	---	297	169	219
15	278	241	258	229	216	222	---	---	---	203	169	185
16	282	245	262	624	229	373	---	---	---	224	205	213
17	342	252	302	566	277	363	---	---	---	242	214	220
18	348	289	323	278	245	257	---	---	---	267	216	238
19	604	294	359	243	231	237	---	---	---	408	220	327
20	666	424	530	237	181	205	---	---	---	368	226	251
21	425	310	361	189	169	180	---	---	---	274	242	262
22	307	281	297	175	169	173	---	---	---	307	265	287
23	280	254	271	179	171	176	---	---	---	272	262	267
24	253	219	233	183	175	178	---	---	---	302	270	277
25	217	166	183	204	176	188	---	---	---	797	276	346
26	166	159	164	192	180	186	---	---	---	293	270	275
27	170	160	166	201	180	191	---	---	---	270	248	267
28	181	166	176	---	---	---	---	---	---	262	245	253
29	---	---	---	---	---	---	---	---	---	696	261	309
30	---	---	---	---	---	---	238	225	231	>1000	296	---
31	---	---	---	---	---	---	---	---	---	310	294	301
MONTH	666	159	259	624	169	219	---	---	---	1000	169	250

JUNE

DAY	MAX	MIN	MEAN
1	308	302	307
2	303	260	279
3	>1000	261	---
4	577	264	306
5	>1000	250	---
6	287	214	234
7	291	171	195
8	209	178	202
9	223	208	215
10	226	214	220
11	270	220	248
12	400	255	302
13	274	220	258
14	212	179	187
15	285	189	218
16	203	197	200
17	207	197	202
18	229	197	215
19	243	214	224
20	258	242	245
21	266	219	239
22	272	247	258
23	260	252	256
24	253	245	249
25	253	252	253
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	1000	171	---
YEAR	1000	133	227

BLACKSTONE RIVER BASIN

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01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), OCTOBER 1974 TO JUNE 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.7	5.2	6.2	6.7	6.6	6.7	6.5	6.5	6.5
2	---	---	---	6.8	6.4	6.6	---	---	---	6.6	6.5	6.5
3	6.7	6.6	6.6	6.8	6.5	6.6	---	---	---	6.6	6.5	6.6
4	6.8	6.5	6.6	6.7	5.8	6.4	---	---	---	6.7	6.6	6.6
5	6.8	6.5	6.7	6.2	5.8	6.0	---	---	---	6.6	6.4	6.5
6	6.8	6.4	6.6	6.2	5.7	6.0	---	---	---	6.7	6.5	6.6
7	6.8	6.4	6.7	6.2	5.9	6.0	---	---	---	6.7	6.7	6.7
8	6.8	6.6	6.7	6.4	6.0	6.3	---	---	---	6.8	6.7	6.8
9	6.9	6.4	6.7	6.6	6.4	6.5	---	---	---	6.8	6.6	6.7
10	6.9	6.6	6.7	6.6	6.4	6.5	---	---	---	6.7	6.6	6.7
11	6.9	6.7	6.8	6.6	6.4	6.5	---	---	---	6.7	6.4	6.5
12	6.7	6.1	6.6	6.5	6.2	6.4	---	---	---	6.8	6.4	6.6
13	6.9	6.5	6.7	6.7	5.4	6.3	---	---	---	6.8	6.6	6.7
14	6.8	6.5	6.7	6.7	6.3	6.5	---	---	---	6.7	6.6	6.7
15	6.9	6.0	6.5	6.4	6.0	6.3	---	---	---	6.7	6.5	6.6
16	6.7	5.7	6.4	6.6	6.4	6.5	---	---	---	6.7	6.6	6.7
17	6.6	5.6	6.1	6.5	6.4	6.5	6.9	6.6	6.7	6.7	6.7	6.7
18	6.7	6.2	6.6	6.6	6.2	6.4	6.6	6.5	6.6	6.7	6.6	6.7
19	6.7	6.6	6.7	6.6	6.2	6.5	6.6	6.3	6.6	6.8	6.6	6.7
20	6.8	6.6	6.7	6.4	5.9	6.3	6.6	6.3	6.5	6.8	6.7	6.7
21	6.8	6.7	6.7	6.5	5.8	6.2	6.5	6.5	6.5	6.8	6.6	6.8
22	6.9	6.7	6.8	6.6	6.4	6.5	6.6	6.5	6.5	6.9	6.7	6.8
23	6.9	6.6	6.7	6.6	6.5	6.6	6.6	6.5	6.6	6.9	6.6	6.8
24	6.9	6.6	6.8	6.7	6.6	6.6	6.6	6.6	6.6	6.9	6.6	6.8
25	6.8	6.6	6.7	6.7	6.5	6.6	6.6	6.5	6.6	6.8	6.7	6.8
26	6.9	6.6	6.7	6.6	6.5	6.6	6.6	6.5	6.6	6.9	6.7	6.8
27	6.9	6.7	6.7	6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.8	6.8
28	6.9	6.6	6.7	6.8	6.6	6.7	6.6	6.2	6.5	6.9	6.8	6.8
29	6.9	6.0	6.7	6.7	6.6	6.6	6.7	6.5	6.6	6.8	6.6	6.7
30	6.6	6.3	6.5	6.7	6.5	6.6	6.7	6.6	6.6	6.8	6.7	6.8
31	6.8	5.6	6.4	---	---	---	6.6	6.5	6.5	6.8	6.7	6.7
MONTH	6.9	5.6	6.6	6.8	5.2	6.4	---	---	---	6.9	6.4	6.7
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	6.8	6.6	6.7	---	---	---	6.9	6.3	6.6
2	6.8	6.6	6.7	6.8	6.6	6.7	---	---	---	6.7	6.5	6.6
3	6.8	6.7	6.8	6.9	6.7	6.8	---	---	---	6.9	6.6	6.8
4	6.9	6.7	6.9	6.9	6.8	6.8	---	---	---	7.0	6.5	6.7
5	6.9	6.8	6.9	6.9	6.8	6.8	---	---	---	7.0	6.7	6.9
6	6.9	6.8	6.9	6.9	6.7	6.8	---	---	---	7.0	6.7	6.9
7	6.9	6.6	6.8	7.0	6.8	6.9	---	---	---	7.0	6.7	6.8
8	6.9	6.8	6.8	7.0	6.9	6.9	---	---	---	7.0	6.6	6.8
9	6.8	6.8	6.8	7.0	6.9	6.9	---	---	---	7.1	6.5	6.8
10	7.0	6.7	6.8	7.1	7.0	7.0	---	---	---	7.0	6.5	6.7
11	6.9	6.8	6.9	7.1	6.3	6.8	---	---	---	7.1	6.5	6.8
12	6.9	6.6	6.8	6.7	6.7	6.7	---	---	---	6.9	6.6	6.7
13	6.8	6.6	6.7	6.7	6.6	6.7	---	---	---	7.2	6.5	6.7
14	6.9	6.8	6.8	6.7	6.6	6.7	---	---	---	7.0	6.5	6.7
15	6.9	6.8	6.9	6.8	6.7	6.7	---	---	---	7.2	6.3	6.7
16	6.9	6.9	6.9	6.9	6.7	6.7	---	---	---	7.2	6.6	6.9
17	7.0	6.9	7.0	6.9	6.6	6.7	---	---	---	7.0	6.7	6.8
18	7.0	6.9	6.9	6.9	6.7	6.8	---	---	---	7.0	6.7	6.8
19	7.0	6.9	7.0	6.9	6.7	6.8	---	---	---	7.1	6.6	6.8
20	7.1	6.8	7.0	6.9	6.6	6.7	---	---	---	7.2	6.9	7.1
21	7.1	7.0	7.0	6.8	6.6	6.7	---	---	---	7.2	6.8	6.9
22	7.2	7.1	7.2	6.8	6.7	6.8	---	---	---	---	---	---
23	7.2	7.2	7.2	7.0	6.7	6.9	---	---	---	---	---	---
24	7.2	7.1	7.2	7.0	6.9	6.9	---	---	---	---	---	---
25	7.1	6.7	6.9	7.2	7.0	7.1	---	---	---	---	---	---
26	6.8	6.6	6.7	7.3	7.2	7.3	---	---	---	---	---	---
27	6.9	6.7	6.8	7.4	7.1	7.2	---	---	---	---	---	---
28	6.9	6.7	6.8	---	---	---	---	---	---	5.8	5.2	5.4
29	---	---	---	---	---	---	---	---	---	5.6	5.4	5.5
30	---	---	---	---	---	---	7.0	6.4	6.8	5.7	5.5	5.6
31	---	---	---	---	---	---	---	---	---	5.9	5.7	5.8
MONTH	7.2	6.6	6.9	7.4	6.3	6.8	---	---	---	7.2	5.2	6.6

BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), OCTOBER 1974 TO JUNE 1975.--Continued

JUNE			
DAY	MAX	MIN	MEAN
1	5.9	5.9	5.9
2	6.1	6.0	6.1
3	6.3	6.1	6.2
4	6.4	6.3	6.4
5	6.7	6.4	6.6
6	6.6	6.2	6.4
7	6.4	5.0	5.6
8	5.3	5.2	5.2
9	6.0	5.5	5.6
10	6.2	5.8	5.9
11	6.5	6.2	6.3
12	6.6	6.2	6.6
13	7.0	6.0	6.4
14	6.8	6.3	6.6
15	7.0	6.3	6.6
16	6.9	6.3	6.6
17	7.0	6.3	6.6
18	7.2	6.5	6.8
19	6.9	6.3	6.5
20	6.5	6.3	6.4
21	6.6	6.2	6.4
22	6.8	6.3	6.5
23	6.8	6.3	6.5
24	6.9	6.3	6.6
25	6.6	6.4	6.5
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	7.2	5.0	6.3
YEAR	7.4	5.0	6.6

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO JUNE 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.9	5.4	5.6	11.8	11.1	11.5	10.9	10.6	10.8
2	---	---	---	5.9	5.3	5.6	10.9	10.4	10.7	11.0	10.4	10.7
3	7.5	7.0	7.2	6.3	5.9	6.1	11.2	9.5	10.6	11.4	10.8	11.1
4	8.4	7.0	7.6	6.4	5.6	6.1	11.8	11.2	11.5	10.9	10.6	10.7
5	8.4	7.2	7.8	6.3	5.9	6.1	12.3	11.8	12.1	10.9	10.3	10.6
6	7.5	6.7	7.1	6.7	6.1	6.4	12.3	11.9	12.1	10.9	10.7	10.8
7	7.0	6.0	6.5	7.9	6.3	7.2	11.9	11.5	11.8	10.7	10.5	10.6
8	7.1	5.8	6.5	8.5	7.5	8.1	11.4	10.5	11.1	10.7	10.4	10.5
9	6.8	6.0	6.4	9.0	8.1	8.5	10.8	9.6	10.3	10.3	10.0	10.2
10	6.9	6.0	6.5	9.6	9.0	9.4	11.5	10.9	11.2	10.4	10.0	10.2
11	6.8	6.1	6.4	10.1	9.7	9.9	---	---	---	10.1	9.6	9.9
12	6.8	6.0	6.3	9.8	9.2	9.6	---	---	---	10.2	9.5	9.8
13	6.6	5.8	6.1	9.4	9.1	9.3	---	---	---	10.8	10.1	10.5
14	7.3	5.7	6.3	10.0	9.1	9.6	---	---	---	11.4	11.0	11.2
15	6.8	5.0	5.9	10.4	9.8	10.1	---	---	---	11.7	11.5	11.7
16	7.0	4.9	5.9	11.2	10.5	10.8	---	---	---	11.9	11.6	11.8
17	7.8	6.7	7.4	11.6	11.3	11.4	9.7	9.0	9.4	12.1	11.9	12.0
18	8.2	7.8	8.0	12.1	11.6	11.9	9.9	9.4	9.7	12.8	12.1	12.4
19	9.1	8.2	8.7	12.3	11.6	12.0	10.3	10.0	10.2	12.3	11.7	12.0
20	9.5	8.5	9.0	11.7	10.9	11.4	10.4	10.1	10.2	12.6	12.1	12.3
21	9.9	9.0	9.5	11.0	10.1	10.8	10.3	9.9	10.1	13.0	12.4	12.7
22	9.9	9.3	9.7	12.2	10.2	11.4	10.3	10.0	10.1	12.4	12.1	12.2
23	9.2	8.4	8.6	13.5	12.0	12.9	10.7	10.2	10.5	12.4	12.0	12.2
24	8.6	8.0	8.4	12.8	12.4	12.7	10.4	10.1	10.3	12.2	11.6	11.9
25	8.6	8.0	8.4	12.1	11.1	12.0	10.6	10.1	10.4	11.7	11.3	11.5
26	8.1	7.8	8.0	13.2	10.8	11.5	11.4	10.6	11.0	11.6	11.0	11.3
27	8.0	7.7	7.8	12.5	11.7	12.1	11.5	11.1	11.4	12.1	11.6	11.9
28	9.4	8.1	8.9	12.4	12.1	12.2	11.2	11.0	11.1	12.2	11.9	12.0
29	9.4	8.3	8.9	12.0	11.6	11.8	11.3	11.0	11.1	12.0	11.4	11.6
30	8.4	6.8	7.9	12.0	11.4	11.7	11.1	10.8	10.9	11.9	11.3	11.6
31	6.9	5.9	6.6	---	---	---	11.4	10.9	11.1	12.3	12.0	12.2
MONTH	9.9	4.9	7.5	13.5	5.3	9.8	12.3	9.0	10.8	13.0	9.5	11.3

BLACKSTONE RIVER BASIN

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01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO JUNE 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.4	12.2	12.3	12.0	11.6	11.9	---	---	---	9.1	6.6	7.7
2	12.6	12.2	12.4	12.4	12.2	12.3	---	---	---	7.2	6.4	6.8
3	12.6	12.2	12.4	12.7	12.2	12.5	---	---	---	8.9	6.9	7.7
4	13.1	12.3	12.7	12.6	12.3	12.4	---	---	---	7.6	6.2	6.9
5	12.7	12.5	12.6	12.8	12.1	12.5	---	---	---	8.8	7.0	7.8
6	12.6	12.0	12.4	12.4	11.7	12.1	---	---	---	9.7	7.5	8.5
7	12.3	11.7	12.0	12.2	11.4	11.8	---	---	---	8.5	6.7	7.5
8	12.5	11.7	12.1	11.5	11.1	11.3	---	---	---	8.7	6.2	7.3
9	12.6	12.0	12.4	12.9	11.4	12.3	---	---	---	8.8	6.2	7.3
10	12.9	12.5	12.7	13.0	12.4	12.7	---	---	---	8.3	6.0	6.9
11	12.9	12.5	12.8	12.4	11.6	12.1	---	---	---	9.0	6.2	7.3
12	12.8	12.4	12.6	12.0	11.4	11.7	---	---	---	8.3	5.6	6.8
13	12.5	12.3	12.4	11.7	11.1	11.5	---	---	---	6.9	4.2	5.6
14	12.4	12.3	12.4	11.9	11.1	11.6	---	---	---	5.3	4.1	4.8
15	12.5	12.3	12.4	12.8	11.9	12.4	---	---	---	6.8	4.8	5.7
16	12.2	12.0	12.1	12.6	11.5	12.2	---	---	---	5.9	4.5	5.1
17	12.3	11.9	12.1	11.9	11.1	11.5	---	---	---	6.7	5.0	5.7
18	12.2	11.9	12.0	11.8	10.7	11.3	---	---	---	6.3	4.7	5.4
19	11.8	11.1	11.6	11.4	10.5	10.9	---	---	---	6.3	4.5	5.3
20	11.4	10.8	11.1	10.5	9.8	10.2	---	---	---	6.1	4.0	4.9
21	11.7	10.8	11.3	11.3	10.3	10.9	---	---	---	4.2	2.9	3.6
22	11.6	10.9	11.3	11.4	11.1	11.3	---	---	---	4.5	2.8	3.5
23	11.1	10.8	10.9	11.4	11.0	11.3	---	---	---	5.2	3.4	4.1
24	11.3	10.7	11.0	11.5	10.9	11.2	---	---	---	4.9	3.0	3.9
25	11.8	11.3	11.6	11.4	10.9	11.1	---	---	---	5.4	3.1	4.1
26	12.3	12.0	12.1	11.1	10.9	11.0	---	---	---	6.8	3.5	5.0
27	12.4	12.1	12.3	12.2	11.2	11.9	---	---	---	6.6	4.0	4.5
28	12.3	11.8	12.1	---	---	---	---	---	---	6.9	3.2	4.9
29	---	---	---	---	---	---	---	---	---	6.7	2.9	4.6
30	---	---	---	---	---	---	9.7	7.5	8.8	5.7	2.6	4.0
31	---	---	---	---	---	---	---	---	---	5.0	2.4	3.6
MONTH	13.1	10.7	12.1	13.0	9.8	11.7	---	---	---	9.7	2.4	5.7

JUNE			
DAY	MAX	MIN	MEAN
1	4.0	2.6	3.3
2	5.7	2.7	4.0
3	4.6	2.6	3.5
4	5.5	2.9	3.9
5	4.1	3.4	3.8
6	4.6	3.5	4.2
7	5.6	4.2	4.9
8	5.1	4.3	4.7
9	5.7	4.7	5.2
10	6.1	4.4	5.3
11	5.5	3.6	4.6
12	4.0	3.0	3.3
13	4.2	3.4	3.9
14	5.2	4.1	4.6
15	5.2	4.2	4.6
16	5.3	3.8	4.4
17	4.4	3.5	3.9
18	4.5	2.9	3.8
19	4.7	2.3	3.3
20	3.9	2.0	2.9
21	6.1	2.0	3.9
22	7.2	2.3	4.6
23	7.2	2.4	4.9
24	8.2	2.8	5.6
25	5.7	3.0	4.3
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	8.2	2.0	4.2
YEAR	13.5	2.0	9.2

BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO JUNE 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.5	13.5	14.0	2.5	1.5	2.0	3.0	2.5	2.5
2	---	---	---	14.5	13.5	14.5	4.5	2.5	4.0	3.0	2.0	2.5
3	14.0	13.5	14.0	13.5	13.0	13.0	4.5	3.5	4.0	2.0	1.0	1.5
4	13.5	12.0	12.5	14.0	13.0	13.5	3.5	2.0	2.5	2.5	2.0	2.0
5	13.0	11.0	12.0	14.0	13.0	13.5	2.0	1.0	1.5	2.5	1.5	2.0
6	14.5	13.0	13.5	13.0	12.0	12.5	2.0	0.5	1.5	2.0	0.5	1.5
7	16.0	14.5	15.5	12.0	10.5	11.5	3.0	1.0	2.0	2.0	2.0	2.0
8	15.5	13.5	14.5	10.5	9.5	10.0	6.0	3.0	4.5	2.5	1.5	2.0
9	13.5	12.0	13.0	9.5	8.5	9.0	7.0	5.0	6.0	2.5	2.5	2.5
10	13.0	12.0	12.5	9.0	8.0	8.5	5.0	3.5	4.0	3.0	2.5	2.5
11	13.0	11.5	12.5	8.5	7.0	8.0	---	---	---	4.5	3.0	3.5
12	13.0	12.0	12.5	9.5	8.5	9.0	---	---	---	4.5	3.5	4.0
13	14.0	12.5	13.0	10.0	9.0	9.5	---	---	---	3.5	2.5	3.0
14	12.5	11.0	12.0	9.0	8.0	8.5	---	---	---	2.5	1.5	2.0
15	14.5	12.5	13.5	9.0	7.5	8.5	---	---	---	1.5	0.5	1.0
16	14.5	12.5	13.5	7.5	6.5	7.0	---	---	---	1.5	0.5	1.0
17	12.5	11.5	12.0	6.5	5.5	6.0	4.5	3.5	4.0	1.0	0.5	1.0
18	12.0	10.5	11.5	6.0	4.5	5.5	4.0	3.0	3.5	1.0	0.0	0.5
19	10.5	8.5	9.0	6.0	5.0	5.5	3.0	2.5	2.5	2.5	1.0	2.0
20	9.0	7.5	8.0	7.0	6.0	6.5	3.0	2.0	2.5	2.5	1.0	2.0
21	7.5	6.5	7.0	7.5	7.0	7.5	3.5	3.0	3.0	1.0	0.5	0.5
22	7.5	5.5	6.5	7.0	5.0	6.0	3.5	3.0	3.5	2.5	1.0	1.5
23	8.5	7.5	8.0	5.0	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0
24	9.0	8.0	8.5	5.0	3.5	4.5	3.5	3.0	3.0	3.0	1.5	2.0
25	8.5	7.5	8.0	6.5	5.0	6.0	3.0	2.0	2.0	3.0	2.5	2.5
26	9.5	8.5	8.5	6.0	3.5	4.5	2.0	0.5	1.0	3.5	2.5	3.0
27	9.5	8.5	9.0	3.0	2.0	2.5	1.5	0.5	1.0	2.5	2.0	2.5
28	8.5	7.0	7.5	2.5	1.5	2.0	2.0	1.0	1.5	2.5	1.5	2.0
29	9.5	7.5	8.5	3.0	2.5	2.5	2.5	1.0	1.5	3.5	2.5	3.0
30	11.5	9.5	10.5	2.5	2.0	2.0	3.5	2.5	3.0	3.5	2.5	3.0
31	13.5	11.5	12.5	---	---	---	2.5	2.0	2.5	2.5	1.5	2.0
MONTH	16.0	5.5	11.0	14.5	1.5	8.0	7.0	0.5	3.0	4.5	0.0	2.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	1.5	2.0	3.5	3.0	3.5	---	---	---	15.5	13.0	14.5
2	2.0	1.0	1.5	3.0	2.0	2.5	---	---	---	15.0	12.5	13.5
3	2.0	1.0	1.5	3.5	1.5	2.0	---	---	---	16.0	12.0	14.0
4	1.5	0.5	1.0	3.0	1.0	2.0	---	---	---	15.0	13.0	14.0
5	1.0	0.5	0.5	3.5	1.0	2.5	---	---	---	13.0	11.5	12.0
6	2.0	0.5	1.5	4.0	2.0	3.0	---	---	---	14.5	10.5	12.5
7	2.5	1.5	2.0	4.5	2.5	3.5	---	---	---	15.5	13.5	14.5
8	2.0	1.0	1.5	5.0	4.0	4.5	---	---	---	16.5	14.0	15.0
9	1.5	0.5	1.0	3.5	1.5	2.0	---	---	---	17.5	14.5	16.0
10	0.5	0.0	0.5	2.5	1.0	1.5	---	---	---	17.5	15.0	16.5
11	0.5	0.0	0.5	4.0	2.0	3.0	---	---	---	19.0	15.0	17.0
12	0.5	0.0	0.0	4.0	3.5	3.5	---	---	---	19.0	16.5	18.0
13	0.5	0.0	0.5	5.0	4.0	4.5	---	---	---	19.0	17.0	18.0
14	0.5	0.0	0.5	5.0	2.5	3.5	---	---	---	20.0	17.0	19.0
15	0.5	0.0	0.5	3.5	1.5	2.5	---	---	---	20.5	17.5	19.0
16	2.0	0.5	1.0	5.0	2.0	3.5	---	---	---	20.0	18.0	19.0
17	3.0	1.5	2.0	6.5	4.0	5.5	---	---	---	20.0	17.5	19.0
18	3.0	2.0	2.5	7.0	4.5	6.0	---	---	---	20.0	17.5	19.0
19	3.5	2.0	3.0	7.5	5.5	6.5	---	---	---	21.5	18.5	20.0
20	4.5	2.5	3.5	8.0	7.5	7.5	---	---	---	23.5	20.0	22.0
21	4.0	2.5	3.5	7.5	5.5	6.5	---	---	---	23.5	22.0	23.0
22	4.5	2.0	3.5	6.0	5.0	5.5	---	---	---	22.5	20.5	21.5
23	4.5	3.5	4.0	7.5	5.0	6.0	---	---	---	23.5	20.0	21.5
24	4.0	3.0	3.5	7.0	6.0	6.5	---	---	---	25.0	22.0	23.5
25	3.5	2.0	2.5	7.5	6.0	6.5	---	---	---	23.0	20.5	21.5
26	3.0	2.0	2.5	8.0	6.5	7.5	---	---	---	20.5	18.5	19.5
27	3.5	2.0	2.5	6.5	3.5	5.0	---	---	---	21.5	19.0	19.5
28	4.0	2.5	3.0	---	---	---	---	---	---	22.5	19.5	21.0
29	---	---	---	---	---	---	---	---	---	23.0	20.0	21.5
30	---	---	---	---	---	---	15.0	11.5	14.0	22.5	20.5	21.5
31	---	---	---	---	---	---	---	---	---	22.5	20.5	21.5
MONTH	4.5	0.0	2.0	8.0	1.0	4.5	---	---	---	25.0	10.5	18.5

BLACKSTONE RIVER BASIN

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01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO JUNE 1975.--Continued

DAY	JUNE		
	MAX	MIN	MEAN
1	22.5	21.5	22.0
2	23.5	20.5	22.0
3	22.0	20.0	21.0
4	19.5	18.5	19.0
5	19.0	17.5	18.0
6	17.0	16.0	16.5
7	18.5	15.5	17.0
8	18.5	17.0	17.5
9	17.5	16.0	16.5
10	19.5	16.0	17.5
11	21.5	18.5	20.0
12	20.5	19.0	20.5
13	19.0	18.5	18.5
14	20.0	18.5	19.0
15	22.0	20.0	20.5
16	22.5	21.5	22.0
17	23.0	22.0	22.5
18	25.0	22.5	24.0
19	27.0	24.0	25.5
20	27.0	23.5	26.0
21	24.0	21.5	23.0
22	24.5	22.0	23.0
23	26.0	22.5	24.0
24	27.5	24.5	26.0
25	27.0	26.5	26.5
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	27.5	15.5	21.0
YEAR	27.5	0.0	8.5

BLACKSTONE RIVER BASIN

01111300 NIPMUC RIVER NEAR HARRISVILLE, R.I.

LOCATION.--Lat 41°58'52", long 71°41'11", Providence County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.2 mi (1.9 km) northwest of Harrisville.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--Discharge: March 1964 to current year.

Chemical analyses: Water year 1968 (partial-record station).

Water temperatures: Water year 1968 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 340 ft (104 m) from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--11 years, 27.9 ft³/s (0.790 m³/s), 23.68 in/yr (601 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) Mar. 18, 1968 (gage height, 7.42 ft or 2.262 m), from rating curve extended above 530 ft³/s (15.0 m³/s); minimum, 0.09 ft³/s (0.003 m³/s) Sept. 10, 1964.

Current year: Peak discharges above base of 270 ft³/s (7.65 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	2400	*286 8.10	*5.38 1.640				

Minimum discharge, 0.78 ft³/s (0.022 m³/s) Aug. 21, 22, 23-25, Sept. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	12	27	39	58	42	22	10	2.8	1.3	2.5
2	12	16	41	29	36	53	37	22	10	2.5	1.2	1.9
3	9.8	13	109	23	32	45	103	25	8.4	2.3	1.0	1.7
4	7.1	12	50	23	30	39	204	23	11	2.3	.89	1.3
5	6.1	13	34	21	27	35	105	24	13	2.1	.89	1.2
6	5.2	15	27	20	32	34	77	24	40	1.9	1.0	1.0
7	4.8	14	23	30	30	33	62	22	34	1.7	3.6	1.0
8	4.0	13	33	38	28	37	53	20	22	1.7	6.6	1.0
9	4.0	12	125	54	27	35	47	19	17	1.7	11	1.0
10	3.6	11	65	74	27	27	42	14	14	1.7	6.6	.89
11	3.6	10	44	78	26	28	40	18	11	1.7	4.0	.78
12	3.6	10	36	160	26	29	37	16	11	4.8	3.0	2.8
13	3.6	12	32	151	26	41	36	30	36	7.7	2.3	11
14	3.6	14	30	160	25	38	33	45	36	7.1	1.9	6.1
15	3.6	13	29	86	25	33	31	32	24	4.8	1.7	3.3
16	4.4	12	24	62	25	31	30	31	17	3.6	1.5	2.5
17	43	11	49	52	25	39	28	31	16	3.0	1.5	2.3
18	96	11	66	70	27	45	27	24	16	2.5	1.3	2.1
19	36	11	45	126	29	43	27	20	13	2.1	1.2	1.9
20	25	11	37	88	32	185	28	16	9.8	1.9	1.0	1.9
21	20	33	33	63	31	131	25	16	7.7	8.2	.89	1.9
22	16	30	33	52	29	75	23	21	6.6	8.2	.89	2.3
23	14	21	31	47	35	61	22	19	4.8	4.4	.89	9.8
24	13	17	29	42	102	52	27	15	4.0	3.0	.78	30
25	12	17	29	58	220	62	37	13	3.6	3.3	.89	48
26	12	17	27	118	152	52	40	11	3.0	4.8	.89	37
27	11	15	26	74	49	42	35	12	3.0	3.3	1.0	72
28	11	14	24	53	66	37	28	17	2.8	2.5	1.0	54
29	10	14	23	52	---	36	25	13	2.8	2.1	.89	27
30	10	13	23	61	---	50	23	9.8	3.0	1.9	4.8	17
31	15	---	23	47	---	56	---	9.8	---	1.5	4.4	---
TOTAL	441.0	444	1307	2039	1298	1562	1374	640.6	415.9	103.1	70.80	347.17
MEAN	14.2	14.8	42.2	65.8	46.4	50.4	45.8	20.7	13.9	3.33	2.28	11.6
MAX	96	33	125	160	220	185	204	45	40	8.2	11	72
MIN	3.6	10	12	20	25	27	22	9.8	2.8	1.5	.78	.78
CFSM	.89	.93	2.64	4.11	2.90	3.15	2.86	1.29	.87	.21	.14	.73
IN.	1.03	1.03	3.04	4.74	3.02	3.63	3.19	1.49	.97	.24	.16	.81

CAL YR 1974 TOTAL 11655.80 MEAN 31.9 MAX 303 MIN .30 CFSM 1.99 IN 27.10
WTR YR 1975 TOTAL 10042.57 MEAN 27.5 MAX 220 MIN .78 CFSM 1.72 IN 23.35

NOTE.--No gage-height record Oct. 19 to Nov. 17.

01111410 CHEPACHET RIVER AT GAZZAVILLE, R.I.

LOCATION.--Lat 41°56'27", long 71°38'55", Providence County, on right bank at Gazzaville, 600 ft (200 m) upstream from bridge on Gazza Road, 1.2 mi (1.9 km) south of Oakland, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--19.2 mi² (49.7 km²).

PERIOD OF RECORD.--Discharge: March 1973 to July 1975 (discontinued).

Chemical analyses: Water year 1968 (partial-record station).

Water temperatures: Water year 1968 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map.

REMARKS.--Records excellent. Occasional regulation by ponds above station.

EXTREMES.--Period of record: Maximum discharge, 428 ft³/s (12.1 m³/s) Mar. 21, 1974 (gage height, 4.61 ft or 1.405 m), from rating curve extended above 140 ft³/s (3.96 m³/s); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 27, 1974.

October 1974 to July 1975: Peak discharges above base of 180 ft³/s (5.10 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 14	0045	188 5.32	3.49 1.064	Apr. 3	0845	*225 6.37	*3.70 1.128
Mar. 20	1715	205 5.81	3.59 1.094				

Minimum discharge, 6.1 ft³/s (0.17 m³/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1974 TO JULY 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	45	42	15	42	54	84	52	19	11	9.3
2	70	36	61	45	53	73	54	21	11	8.7
3	56	32	93	39	48	64	193	22	17	8.7
4	47	35	58	37	45	56	152	22	17	8.7
5	40	36	43	35	46	50	127	23	19	8.4
6	34	38	37	32	48	46	104	23	36	8.1
7	30	34	35	47	48	45	85	25	32	6.9
8	27	36	46	55	45	48	72	25	28	7.5
9	25	34	94	73	42	44	63	25	25	7.8
10	22	31	87	99	41	39	57	24	16	7.5
11	20	30	72	92	39	39	52	24	13	8.4
12	18	30	63	128	34	39	48	22	13	12
13	17	36	56	140	34	51	45	34	28	15
14	16	38	51	175	38	48	42	39	28	12
15	15	36	46	131	36	48	41	34	22	9.0
16	50	34	45	99	34	45	39	39	21	8.4
17	120	33	87	77	34	48	38	39	22	9.0
18	84	33	83	69	35	50	36	33	21	9.0
19	66	32	69	104	37	49	37	29	20	8.4
20	56	32	60	100	41	148	36	26	17	8.4
21	48	49	53	83	41	160	33	22	15	10
22	43	48	50	72	41	102	32	20	14	10
23	39	38	48	64	45	85	30	19	13	9.6
24	35	30	45	58	81	81	39	15	11	8.7
25	34	25	45	67	161	74	37	12	11	9.6
26	34	22	45	109	157	63	34	12	11	9.0
27	32	19	41	99	126	55	28	12	10	8.1
28	30	17	39	83	99	52	25	16	9.6	6.9
29	30	17	37	76	---	55	22	15	9.6	8.1
30	28	15	37	76	---	65	21	12	9.3	8.1
31	36	---	38	66	---	57	---	12	---	8.1
TOTAL	1297	972	1684	2472	1597	1963	1680	715	530.5	277.4
MEAN	41.8	32.4	54.3	79.7	57.0	63.3	56.0	23.1	17.7	8.45
MAX	120	49	99	175	161	160	193	39	36	15
MIN	15	15	15	32	34	39	21	12	9.3	6.9
CFSM	2.18	1.69	2.83	4.15	2.97	3.30	2.92	1.20	.92	.47
IN.	2.51	1.88	3.26	4.79	3.09	3.80	3.26	1.39	1.03	.54

CAL YR 1974 TOTAL 15990.4 MEAN 43.8 MAX 318 MIN 5.6 CFSM 2.28 IN 30.98

BLACKSTONE RIVER BASIN

0111500 BRANCH RIVER AT FORESTDALE, R.I.

LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, on left bank 20 ft (6 m) upstream from abandoned bridge site, 400 ft (100 m) downstream from milldam at Forestdale, 1 mi (2 km) east of Slatersville, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--91.2 mi² (236.2 km²).

PERIOD OF RECORD.--Discharge: September to December 1909 and January 1912 to July 1913 (gage heights only; published as "at Branch Village"), January 1940 to current year.

Chemical analyses: Water years 1954, 1968 (partial-record station).

Water temperatures: Water years 1954, 1968 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m) from topographic map. Prior to July 28, 1913, nonrecording gage at site 1 mi (2 km) downstream at different datum.

REMARKS.--Records excellent. Prior to 1957, flow regulated by mills and reservoirs above station.

AVERAGE DISCHARGE.--35 years, 166 ft³/s (4.701 m³/s), 24.72 in/yr (628 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 18, 1968 (gage height, 11.90 ft or 3.627 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of computation of peak flow over dam 400 ft (100 m) above station; minimum daily, 5.2 ft³/s (0.15 m³/s) Oct. 7, 1948.

Maximum discharge since at least 1886, about 5,800 ft³/s (164 m³/s) Mar. 19, 1936, by computation of flow over dam 1 mi (2 km) above station.

Current year: Peak discharges above base of 880 ft³/s (24.9 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	2300	920 26.1	5.30 1.615	Apr. 4	0730	*988 28.0	*5.47 1.667
Mar. 20	2245	888 25.1	5.22 1.591				

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Aug. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	339	143	84	204	293	335	272	128	58	24	21	28
2	244	122	227	225	243	301	245	124	55	24	21	23
3	191	103	516	192	216	264	369	141	50	24	19	21
4	162	99	338	174	197	230	907	135	51	24	17	20
5	143	106	250	164	181	211	662	135	57	23	18	19
6	132	119	206	144	172	197	492	135	119	22	18	19
7	125	116	188	216	168	192	401	132	187	21	29	18
8	116	103	206	293	162	206	344	123	131	23	37	18
9	110	94	451	321	162	194	304	114	101	23	63	18
10	107	87	451	470	154	174	277	114	83	21	49	15
11	92	83	350	414	158	170	258	119	66	23	36	16
12	86	84	296	608	156	174	240	107	63	41	28	22
13	77	102	266	656	160	216	225	146	124	66	25	29
14	73	112	247	806	158	218	213	211	171	61	22	31
15	72	106	237	556	152	206	206	174	132	48	19	28
16	192	97	232	401	150	194	190	166	103	40	20	24
17	449	91	413	330	152	211	183	183	94	32	20	22
18	327	90	375	301	168	233	170	150	90	28	18	21
19	244	87	279	564	176	228	164	128	76	28	17	21
20	205	90	230	516	197	618	166	114	63	28	16	21
21	217	150	202	404	197	747	152	98	53	43	15	24
22	199	180	190	365	187	504	144	93	48	48	18	26
23	168	150	146	335	211	407	139	96	39	38	15	51
24	127	132	188	280	372	350	154	77	38	32	15	147
25	119	117	199	301	639	350	197	60	34	34	17	233
26	117	119	190	516	794	327	211	55	32	37	16	243
27	113	107	166	444	539	277	197	53	29	31	16	300
28	107	98	162	365	401	248	168	66	29	27	14	294
29	104	93	164	369	---	240	152	62	30	23	14	181
30	101	89	170	381	---	272	139	59	27	22	36	136
31	120	---	174	332	---	321	---	59	---	22	29	---
TOTAL	4978	3269	7838	11647	7115	8815	7941	3557	2233	981	718	2069
MEAN	161	109	253	376	254	284	265	115	74.4	31.6	23.2	69.0
MAX	449	180	516	806	839	747	907	211	187	66	63	300
MIN	72	83	84	144	150	170	139	53	27	21	14	15
CFSM	1.77	1.20	2.77	4.12	2.79	3.11	2.91	1.26	.82	.35	.25	.76
IN.	2.03	1.33	3.20	4.75	2.90	3.60	3.24	1.45	.91	.40	.29	.84
CAL YR 1974	TOTAL	73605	MEAN 202	MAX 1530	MIN 16	CFSM 2.21	IN 30.02					
WTR YR 1975	TOTAL	61161	MEAN 168	MAX 907	MIN 14	CFSM 1.84	IN 24.95					

01112500 BLACKSTONE RIVER AT WOONSOCKET, R.I.

LOCATION.--Lat 42°00'22", long 71°30'13", Providence County, on right bank at Woonsocket, 50 ft (15 m) upstream from Peters River pressure conduit. Records include flow of Peters River.

DRAINAGE AREA.--416 mi² (1,077 km²).

PERIOD OF RECORD.--Discharge: February 1929 to current year.

Chemical analyses: Water years 1952-53, 1957-58 (partial-record station).

Water temperatures: Water years 1952, 1957-58 (partial-record station), November 1961 to October 1964, April 1966 to March 1967.

GAGE.--Water-stage recorder. Datum of gage is 107.42 ft (32.742 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M). WSP 871: 1938. WSP 1051: 1931.

REMARKS.--Records excellent except those below 150 ft³/s (4.25 m³/s), which are fair. Flow regulated by power-plants, by West Hill Reservoir since May 1961, and by other reservoirs above station. Extremes and figures of daily discharge include flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir for supply of Worcester, Mass., and, prior to July 1964, flow diverted around station in Hamlet Trench. No diversion from Quabbin Reservoir during year. See table below for figures of diversion and table with station 01111200 for monthend contents of West Hill Reservoir.

AVERAGE DISCHARGE.--46 years, 729 ft³/s (20.65 m³/s), 23.80 in/yr (605 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 32,900 ft³/s (932 m³/s) Aug. 19, 1955 (gage height, 21.8 ft or 6.64 m, from floodmarks), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of peak flow, affected by failure of Horseshoe Dam on Mill River; minimum daily, 21 ft³/s (0.59 m³/s) Aug. 11, 1934, flow diverted around station in Hamlet Trench not included. Maximum discharge since at least 1645, that of Aug. 19, 1955.

Current year: Peak discharges above base of 3,400 ft³/s (96.3 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 14	1000	3,420 96.9	6.15 1.875	Mar. 21	1530	3,510 99.4	6.24 1.902
Feb. 26	0015	*3,950 112	*6.67 2.033	Apr. 4	1000	3,880 110	6.61 2.015

Minimum daily discharge, 106 ft³/s (3.00 m³/s) Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	563	402	734	1290	1700	1190	536	269	157	124	194
2	1060	481	444	742	1130	1550	1070	532	257	155	120	150
3	827	414	1910	702	1010	1390	1470	601	251	157	116	135
4	683	426	1460	650	910	1240	3210	568	278	152	112	135
5	576	485	1110	615	879	1120	2740	601	345	152	106	135
6	514	603	893	563	847	1040	2110	587	518	148	106	135
7	473	571	774	753	874	984	1760	550	789	143	169	135
8	434	510	880	904	837	1010	1550	514	554	139	338	150
9	405	473	1850	1110	803	965	1360	476	447	137	447	148
10	344	505	1930	1550	756	884	1240	463	396	137	311	150
11	347	514	1510	1500	769	857	1150	455	335	137	229	135
12	349	519	1250	2100	736	865	1050	419	324	171	191	173
13	301	564	1100	2390	769	992	984	601	601	240	171	287
14	279	617	1000	2980	745	992	918	1030	707	229	155	260
15	278	590	944	2340	705	974	893	783	573	199	139	194
16	715	558	930	1850	676	934	837	742	476	169	135	169
17	1760	519	1540	1550	677	1040	777	748	455	152	135	171
18	1310	496	1620	1410	722	1030	736	606	451	150	135	164
19	982	490	1340	2070	783	1010	719	518	400	148	128	155
20	778	517	1140	2100	896	2160	730	471	349	155	124	162
21	681	726	1000	1770	874	2950	667	423	294	209	118	178
22	614	782	924	1550	831	2280	620	408	257	287	128	173
23	546	644	870	1400	913	1820	596	385	234	191	122	281
24	529	565	822	1250	1560	1550	656	349	226	159	114	667
25	484	523	810	1330	3450	1580	807	297	215	173	112	1200
26	468	553	784	2000	3590	1490	819	272	201	188	112	1330
27	448	510	722	1860	2590	1310	754	278	191	155	116	1410
28	477	479	689	1590	1980	1160	662	301	186	150	116	1560
29	486	441	660	1480	---	1100	616	272	278	141	114	1040
30	469	423	652	1580	---	1180	573	251	201	132	201	742
31	521	---	683	1440	---	1350	---	257	---	128	370	---
TOTAL	19702	16068	33049	45907	32651	40507	33264	15294	11058	5140	5114	11918
MEAN	636	536	1066	1481	1166	1307	1109	493	369	166	165	397
MAX	1760	782	1930	2980	3590	2950	3210	1030	789	287	447	1560
MIN	278	416	402	563	676	857	573	251	186	128	106	135
(†)	17.6	12.0	0	0	0	0	8.29	13.8	17.9	31.3	27.9	21.2
MEAN†	617	523	1066	1482	1167	1306	1100	479	351	134	137	377
CFSM†	1.48	1.26	2.56	3.56	2.81	3.14	2.64	1.15	.84	.32	.33	.91
IN.†	1.71	1.40	2.96	4.11	2.92	3.62	2.95	1.33	.94	.37	.38	1.01
CAL YR 1974 TOTAL	318569				4960							
WTR YR 1975 TOTAL	269672				3590							
MEAN †73												
MEAN †79												
MAX												
MIN												
MEAN†	857											
MEAN†	726											
CFSM†	2.06											
CFSM†	1.75											
IN†	27.98											
IN†	23.70											

† Diversion, in cubic feet per second, from Nashua River basin for municipal supply of Worcester, Mass.; records furnished by city of Worcester.

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, on left bank 800 ft (250 m) upstream from bridge on U.S. Highway 44, at Providence, and 0.5 mi (0.8 km) above mouth.

PERIOD OF RECORD.--Discharge: June 1963 to current year.

Chemical analyses: Water year 1971 (partial-record station).
Water temperatures: Water year 1971 (partial-record station).

REMARKS.--Records good. Occasional regulation at low flow.

EXTREMES.--Period of record: Maximum discharge, 2,390 ft³/s (67.7 m³/s) Mar. 18, 1968 (gage height, 3.46 ft or 1.055 m, present datum), from rating curve extended above 460 ft³/s (13.0 m³/s); maximum gage height, 4.83 ft (1.472 m) Aug. 17, 1974; minimum discharge, 1.3 ft³/s (0.037 m³/s) Aug. 23, 1970; minimum daily, 1.7 ft³/s (0.048 m³/s) Aug. 10, 1970.

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Oct. 16	1545	601	17.0	4.09	1.247	Apr. 3	1515	*872	24.7	*4.64	1.414
Dec. 16	2200	619	17.5	4.13	1.259						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	24	16	58	46	70	44	28	13	8.3	6.3	7.3
2	17	13	136	44	42	57	41	36	12	7.7	6.0	7.0
3	15	15	66	36	39	49	247	34	12	7.7	6.5	7.9
4	14	23	40	34	36	44	182	34	14	11	9.3	6.8
5	12	23	31	32	39	42	45	34	14	10	9.3	6.8
6	12	20	28	30	45	39	75	31	139	8.3	7.8	6.4
7	12	18	26	96	40	38	65	31	50	7.8	58	6.0
8	12	17	112	61	35	41	57	28	26	6.5	23	5.7
9	10	15	148	165	34	35	53	27	21	6.6	19	6.8
10	9.5	14	69	108	33	32	49	25	19	7.4	10	6.3
11	9.4	14	49	100	33	34	47	25	16	7.5	7.7	6.2
12	8.7	15	44	86	33	43	43	24	23	51	7.3	46
13	8.4	29	40	156	33	50	41	45	118	42	7.9	28
14	7.9	20	39	138	31	40	39	31	54	21	7.6	8.9
15	8.9	17	35	85	31	51	37	26	33	18	7.5	6.8
16	202	15	105	69	30	39	36	57	26	13	6.5	6.8
17	99	15	231	59	34	41	36	38	27	11	5.8	6.8
18	39	16	91	130	37	39	34	28	22	10	6.2	6.8
19	26	15	64	133	46	46	33	24	19	9.4	7.1	8.5
20	22	53	56	88	46	195	33	24	17	8.5	6.6	12
21	19	51	49	66	43	107	30	22	14	11	6.5	49
22	17	34	51	60	40	73	28	20	14	8.2	12	16
23	18	24	46	55	49	64	28	19	12	7.2	6.5	45
24	20	21	42	51	134	63	57	18	12	6.9	7.0	141
25	21	22	45	103	165	66	45	16	12	16	7.6	139
26	19	27	43	103	98	56	57	15	11	7.7	7.4	59
27	16	19	38	68	72	47	38	20	10	6.1	7.4	70
28	14	18	37	58	62	43	34	17	9.8	6.2	7.2	40
29	15	18	35	65	---	41	31	15	9.8	6.7	7.1	27
30	15	17	36	61	---	69	29	15	9.8	6.1	54	22
31	37	---	36	51	---	55	---	13	---	6.1	13	---
TOTAL	776.8	647	1883	2449	1406	1709	1664	820	789.4	360.9	361.1	813.8
MEAN	25.1	21.6	60.7	79.0	50.2	55.1	55.5	26.5	26.3	11.6	11.6	27.1
MAX	202	53	231	165	165	195	247	57	139	51	58	141
MIN	7.9	14	16	30	30	32	28	13	9.8	6.1	5.8	5.7
CF5M	1.09	.94	2.63	3.42	2.17	2.39	2.40	1.15	1.14	.50	.50	1.17
IN.	1.25	1.04	3.03	3.94	2.26	2.75	2.68	1.32	1.27	.58	.58	1.31
CAL YR 1974	TOTAL	14810.2	MEAN	40.6	MAX	274	MIN	6.5	CF5M	1.76	IN	23.85
WTR YR 1975	TOTAL	13680.0	MEAN	37.5	MAX	247	MIN	5.7	CF5M	1.62	IN	22.03

01114500 WOONASQUATUCKET RIVER AT CENTERDALE, R.I.

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, on right bank 75 ft (23 m) downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--38.3 mi² (99.2 km²).

PERIOD OF RECORD.--Discharge: July 1941 to current year.

Chemical analyses: Water years 1955-56 (partial-record station).

Water temperatures: Water years 1955-56 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

REMARKS.--Records good. Some regulation by reservoirs above station; regulation greater prior to 1956. Discharge figures prior to 1966 included leakage around station through bypass canal; leakage negligible subsequently.

AVERAGE DISCHARGE.--34 years, 70.6 ft³/s (1.999 m³/s), 25.03 in/yr (636 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 18, 1968 (gage height, 7.75 ft or 2.362 m, from floodmarks); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 26, 1963.

Maximum discharge during March 1936, 1,000 ft³/s (28.3 m³/s), by computation of flow over dam 0.7 mi (1.1 km) below station.

Current year: Maximum discharge, 550 ft³/s (15.6 m³/s) Apr. 3 (gage height, 4.94 ft or 1.506 m); minimum daily, 21 ft³/s (0.59 m³/s) Sept. 15-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	66	35	84	111	145	100	61	34	29	25	24
2	31	58	100	82	102	132	94	64	41	29	25	23
3	29	55	82	75	94	117	242	65	28	29	25	23
4	28	57	69	73	85	106	318	63	34	29	25	23
5	27	58	60	69	87	97	247	63	31	28	25	23
6	27	60	53	65	87	91	212	60	80	27	25	23
7	27	58	52	97	83	88	181	59	52	29	32	23
8	26	55	95	95	79	88	158	56	40	29	36	23
9	25	51	184	159	77	79	143	54	38	29	38	23
10	25	49	115	177	73	75	128	52	34	30	29	22
11	25	51	94	154	70	73	119	51	33	30	28	22
12	25	56	83	161	69	75	110	48	35	45	26	27
13	26	61	77	189	68	86	102	52	71	41	25	24
14	25	54	74	231	65	80	95	51	59	35	25	23
15	26	49	69	175	62	84	90	49	50	33	24	21
16	94	46	83	145	62	82	85	60	46	31	25	21
17	91	45	197	125	62	85	81	57	46	31	25	21
18	49	41	125	131	64	81	76	52	43	29	24	21
19	41	40	101	204	69	80	74	49	39	29	23	22
20	38	48	90	165	75	253	73	47	37	29	23	23
21	35	62	83	140	74	236	69	44	33	29	23	31
22	34	54	81	128	74	197	64	45	32	29	24	29
23	34	49	76	120	83	176	62	42	31	28	23	38
24	36	46	72	114	136	153	69	40	31	27	24	82
25	43	45	76	140	232	150	74	36	30	29	23	94
26	48	47	77	192	212	133	83	35	30	28	23	45
27	52	42	75	167	183	116	75	41	29	27	23	46
28	52	39	74	149	158	106	70	41	30	27	23	36
29	52	38	72	144	---	99	67	35	30	27	22	29
30	52	36	72	139	---	113	64	34	30	26	31	27
31	68	---	72	122	---	109	---	34	---	26	25	---
TOTAL	1224	1516	2668	4211	2696	3585	3425	1540	1177	924	797	912
MEAN	39.5	50.5	86.1	136	96.3	116	114	49.7	39.2	29.8	25.7	30.4
MAX	94	66	197	231	232	253	318	65	80	45	38	94
MIN	25	36	35	65	62	73	62	34	28	26	22	21
CFSM	1.03	1.32	2.25	3.55	2.51	3.03	2.98	1.30	1.02	.78	.67	.79
IN.	1.19	1.47	2.59	4.09	2.62	3.48	3.33	1.50	1.14	.90	.77	.89

CAL YR 1974 TOTAL 27335 MEAN 74.9 MAX 379 MIN 19 CFSM 1.96 IN 26.55
WTR YR 1975 TOTAL 24675 MEAN 67.6 MAX 318 MIN 21 CFSM 1.77 IN 23.97

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

PAWTUXET RIVER BASIN

01115630 NOOSENECK RIVER AT NOOSENECK, R.I.

LOCATION.--Lat 41°37'36", long 71°37'59", Kent County, on right bank at upstream side of bridge on State Highway 3 at Nooseneck and 5.5 mi (8.8 km) southwest of Washington.

DRAINAGE AREA.--8.23 mi² (21.32 km²).

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water years 1961-63. November 1963 to current year.

Chemical analyses: Water year 1963 (partial-record station).
Water temperatures: Water year 1963 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (81 m) from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--11 years (1964-75), 18.0 ft³/s (0.510 m³/s), 29.70 in/yr (754 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 318 ft³/s (9.01 m³/s) Mar. 18, 1968 (gage height, 6.13 ft or 1.868 m); minimum, 0.81 ft³/s (0.023 m³/s) Sept. 8, 9, 1964.

Current year: Peak discharges above base of 130 ft³/s (3.68 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	2100	*141 3.99	*4.47 1.362				

Minimum discharge, 2.8 ft³/s (0.079 m³/s) Sept. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.0	8.0	21	26	33	24	17	12	7.2	5.2	5.2
2	7.0	7.0	28	20	24	31	22	18	11	7.0	5.0	4.9
3	6.3	6.0	30	17	23	28	59	19	9.9	7.0	4.7	4.3
4	6.0	5.8	18	16	20	26	75	18	12	7.0	4.5	4.1
5	5.8	6.0	15	15	20	25	44	19	11	6.8	4.5	3.6
6	5.5	7.0	13	14	22	23	38	18	29	6.8	4.7	3.5
7	5.1	6.7	12	25	22	23	34	17	23	6.6	10	3.5
8	4.6	6.4	16	24	20	25	31	16	17	6.6	17	3.1
9	4.6	6.4	43	41	19	23	29	15	15	6.4	14	3.1
10	4.6	6.1	30	46	19	20	29	14	14	6.4	12	3.0
11	4.9	6.1	20	37	18	20	27	13	13	6.4	9.0	2.8
12	5.1	6.1	17	40	17	22	26	13	12	12	7.3	4.1
13	5.1	7.9	16	43	17	32	25	15	50	20	6.2	10
14	5.1	7.6	16	55	17	26	23	15	40	17	5.7	6.0
15	5.3	7.0	15	38	17	25	21	14	30	13	5.2	5.2
16	16	6.4	17	33	16	24	21	22	25	11	4.9	4.9
17	21	6.1	45	29	17	26	21	21	21	9.0	5.2	4.9
18	10	6.1	37	33	18	26	19	16	18	8.2	4.9	4.6
19	8.2	6.1	28	55	22	24	19	15	16	7.6	4.1	4.3
20	7.3	7.0	23	43	25	66	19	14	14	7.2	3.8	4.1
21	6.6	14	21	36	22	50	17	12	13	6.8	3.6	5.2
22	6.3	14	21	33	22	36	16	11	12	6.2	4.1	5.7
23	5.8	12	19	30	31	33	16	11	11	5.7	3.6	11
24	5.5	11	19	28	52	30	19	9.9	10	5.6	3.5	35
25	5.8	11	21	38	75	32	27	9.5	9.0	15	3.8	42
26	6.0	10	18	56	49	30	32	9.5	8.2	30	3.8	27
27	5.8	9.2	17	39	38	25	24	10	7.6	17	3.6	32
28	5.5	8.6	16	33	33	25	21	13	7.4	12	3.3	24
29	5.3	8.2	16	32	---	23	19	10	8.0	8.5	3.0	17
30	5.3	8.0	16	33	---	28	18	9.5	7.5	7.0	8.0	15
31	6.6	---	16	29	---	29	---	12	---	5.6	6.2	---
TOTAL	209.9	236.8	647.0	1032	721	889	815	446.4	486.6	298.6	184.4	303.1
MEAN	6.77	7.89	20.9	33.3	25.8	28.7	27.2	14.4	16.2	9.63	5.95	10.1
MAX	21	14	45	56	75	66	75	22	50	30	17	42
MIN	4.6	5.8	8.0	14	16	20	16	9.5	7.4	5.6	3.0	2.8
CFSM	.82	.96	2.54	4.05	3.13	3.49	3.30	1.75	1.97	1.17	.72	1.23
IN.	.95	1.07	2.92	4.66	3.26	4.02	3.68	2.02	2.20	1.35	.83	1.37

CAL YR 1974 TOTAL 6602.9 MEAN 18.1 MAX 89 MIN 1.9 CFSM 2.20 IN 29.84
WTR YR 1975 TOTAL 6269.8 MEAN 17.2 MAX 75 MIN 2.8 CFSM 2.09 IN 28.34

NOTE.--No gage-height record Nov. 19 to Dec. 30, June 8 to Aug. 11.

01115770 CARR RIVER NEAR NOOSENECK, R.I.

LOCATION.--Lat 41°38'35", long 71°36'30", Kent County, on left bank at upstream side of bridge on Burnt Sawmill Road, 1.5 mi (2.4 km) northeast of Nooseneck, and 4 mi (6 km) southwest of Washington.

DRAINAGE AREA.--6.73 mi² (17.43 km²).

PERIOD OF RECORD.--Discharge: 1961-63 (occasional low-flow measurements), November 1963 to current year.

Chemical analyses: Water year 1963 (partial-record station).

Water temperatures: Water year 1963 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m) from topographic map. Prior to Nov. 27, 1963, reference point at site 75 ft (23 m) upstream at datum 9 ft (2.7 m) higher.

REMARKS.--Records good. Flow regulated by Carr Pond and other ponds above station. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

AVERAGE DISCHARGE.--11 years (1964-75), 11.5 ft³/s (0.326 m³/s), 23.20 in/yr (589 mm/yr), adjusted for diversion prior to May 1972.

EXTREMES.--Period of record: Maximum discharge, 221 ft³/s (6.26 m³/s) Mar. 18, 1968 (gage height, 6.50 ft or 1.981 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 25, 26, 1968; minimum daily, 0.36 ft³/s (0.010 m³/s) Aug. 18, Sept. 12, 1965.

Current year: Peak discharges above base of 65 ft³/s (1.84 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 4	0345	*51 1.44	*4.30 1.311				

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Sept. 20, 21; minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.3	5.1	11	16	21	15	11	6.3	3.9	3.1	2.0
2	5.5	3.4	15	12	14	20	14	11	6.3	4.4	3.1	2.0
3	4.4	3.4	19	11	13	18	26	11	6.3	4.4	3.1	2.0
4	3.1	3.4	12	11	12	16	48	11	6.3	4.4	2.9	2.0
5	2.9	3.4	9.9	10	12	15	35	11	6.3	4.1	2.7	2.0
6	2.6	3.4	8.7	9.4	13	14	27	11	12	4.1	2.7	2.0
7	2.4	3.6	7.9	12	13	13	22	10	14	4.1	3.9	2.0
8	2.1	3.6	10	14	13	14	20	10	11	4.1	8.8	1.9
9	2.1	3.6	28	23	13	14	18	9.1	9.6	3.9	8.5	1.9
10	2.0	3.5	20	34	12	13	17	9.1	8.5	3.9	6.7	1.9
11	1.9	3.1	14	27	12	13	16	8.8	7.4	3.9	4.7	1.9
12	1.9	3.1	11	27	11	13	15	8.5	7.1	5.1	3.9	1.7
13	1.9	3.3	10	27	11	16	14	8.5	19	12	3.7	2.0
14	1.9	3.6	10	37	11	16	14	8.8	26	11	3.4	2.6
15	1.9	3.5	9.7	31	11	16	14	7.0	19	9.1	3.0	2.7
16	6.7	3.5	10	24	11	15	14	8.5	16	7.8	2.9	7.0
17	19	3.3	24	20	11	14	13	12	13	6.7	2.9	5.5
18	13	3.0	26	19	11	14	12	10	12	5.9	2.9	2.9
19	9.4	2.9	19	32	11	14	12	4.4	10	4.7	2.8	2.4
20	7.1	3.3	15	31	12	29	11	7.0	9.4	4.4	2.7	2.0
21	5.1	4.4	13	25	12	33	10	7.4	8.1	4.1	2.7	1.2
22	4.5	9.1	13	21	12	25	10	7.4	7.1	3.9	2.6	2.0
23	4.2	8.3	12	19	14	21	10	7.4	6.7	3.4	2.5	3.9
24	3.9	7.9	12	17	26	18	11	8.5	6.3	3.4	2.4	19
25	3.5	7.4	12	20	48	19	14	9.1	5.4	4.1	2.4	31
26	3.4	6.9	12	32	41	17	18	7.4	4.7	21	2.4	25
27	3.4	6.4	11	28	29	15	17	7.4	4.4	11	2.3	20
28	3.3	5.6	11	22	23	14	14	8.5	4.4	7.0	2.3	15
29	3.4	5.5	10	20	---	14	12	7.5	4.4	5.1	2.1	10
30	3.4	5.2	10	20	---	15	11	6.5	4.1	4.1	2.0	8.2
31	3.4	---	10	18	---	16	---	6.3	---	3.1	2.0	---
TOTAL	141.5	138.0	415.3	664.4	448	525	504	271.1	281.1	182.1	104.1	185.7
MEAN	4.56	4.60	13.4	21.4	16.0	16.9	16.8	8.75	9.37	5.87	3.36	6.19
MAX	19	9.1	29	37	48	33	48	12	26	21	8.8	31
MIN	1.9	2.9	5.1	9.4	11	13	10	4.4	4.1	3.1	2.0	1.2
CFSM	.68	.68	1.99	3.18	2.38	2.51	2.50	1.30	1.39	.87	.50	.92
IN.	.78	.76	2.30	3.67	2.48	2.90	2.79	1.50	1.55	1.01	.58	1.03

CAL YR 1974	TOTAL	4140.6	MEAN 11.3	MAX 56	MIN 1.2	CFSM 1.68	IN 22.89
WTR YR 1975	TOTAL	3860.3	MEAN 10.6	MAX 48	MIN 1.2	CFSM 1.58	IN 21.34

PANTUXET RIVER BASIN

01116000 SOUTH BRANCH PANTUXET RIVER AT WASHINGTON, R.I.

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, on right bank 150 ft (46 m) downstream from highway bridge at Washington and 0.9 mi (1.4 km) upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 mi² (165.2 km²).

PERIOD OF RECORD.--Discharge: October 1940 to current year.

Chemical analyses: Water years 1955-1956, 1963 (partial-record station).

Water temperatures: Water years 1955-56, 1963 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft (66.373 m) above mean sea level.

REMARKS.--Records good except those below 30 ft³/s (0.85 m³/s), which are fair. Flow regulated by Flat River Reservoir 2 mi (3 km) upstream (usable capacity, 250,000,000 ft³ or 7,080,000 m³) and smaller reservoirs. Prior to May 1972, diversion above station from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

AVERAGE DISCHARGE.--35 years, 128 ft³/s (3.625 m³/s), 27.24 in/yr (692 mm/yr), adjusted for diversion and storage.

EXTREMES.--Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Mar. 18, 1968 (gage height, 5.13 ft or 1.564 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Aug. 27, 1944.

Flood in March 1936 reached a discharge of 1,810 ft³/s (51.3 m³/s), by computation of flow over dam just above gage.

Current year: Maximum discharge, 345 ft³/s (9.77 m³/s) Apr. 3 (gage height, 2.51 ft or 0.765 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	101	22	144	217	294	106	132	67	50	44	10
2	114	101	161	143	217	288	105	113	78	50	4.6	47
3	67	44	242	141	215	282	251	30	91	45	11	41
4	72	117	238	141	213	276	328	79	158	14	54	41
5	83	90	194	141	214	218	312	150	72	19	44	38
6	83	67	93	140	213	102	304	103	141	37	39	7.8
7	41	29	90	149	212	101	255	89	172	93	76	11
8	78	26	98	146	176	134	107	62	158	47	90	52
9	78	26	168	163	101	193	103	116	141	41	81	47
10	78	74	233	193	101	194	121	76	95	44	20	39
11	60	76	229	245	101	172	285	40	60	45	74	38
12	9.6	65	229	248	100	100	231	120	85	23	72	42
13	7.4	76	225	252	101	102	102	123	165	61	42	18
14	23	74	186	261	101	159	104	78	242	120	38	15
15	76	49	103	290	100	240	108	65	270	90	37	49
16	90	10	145	317	101	104	108	89	168	58	7.8	39
17	101	21	233	307	123	100	144	97	101	74	10	34
18	43	78	238	307	204	118	171	101	114	65	47	33
19	40	58	233	319	207	210	101	99	106	14	37	37
20	88	56	229	314	206	307	100	77	88	23	34	10
21	101	85	229	309	171	299	98	74	47	72	31	14
22	70	83	225	304	102	288	98	78	61	47	35	61
23	39	70	188	298	106	249	98	90	83	47	6.6	250
24	54	28	103	294	154	139	103	45	70	41	4.6	183
25	63	90	106	302	267	201	138	54	65	50	44	270
26	13	93	103	309	324	203	207	73	58	21	35	287
27	9.0	76	103	240	316	204	202	99	56	30	35	198
28	21	24	103	118	310	186	186	98	20	88	38	123
29	83	56	114	143	---	102	104	68	33	72	35	101
30	67	10	141	221	---	169	111	53	74	44	38	95
31	90	---	141	221	---	256	---	40	---	39	44	---
TOTAL	2052.4	1853	5143	7120	4973	5990	4791	2611	3139	1564	1223.6	2230.8
MEAN	66.2	61.8	166	230	178	193	160	84.2	105	50.5	39.5	74.4
MAX	114	117	242	319	324	307	328	150	270	120	90	287
MIN	7.4	10	22	118	100	100	98	30	20	14	6.6	7.8
(†)	185.0	194.5	197.5	191.0	185.0	182.0	219.5	257.5	253.5	246.5	219.5	168.0
MEAN†	60.4	65.4	167	227	175	192	174	98.4	103	47.8	29.4	54.5
CFSM†	.95	1.03	2.62	3.56	2.74	3.01	2.73	1.54	1.61	.75	.46	.85
IN.†	1.09	1.14	3.02	4.11	2.86	3.47	3.05	1.78	1.80	.86	.53	.95
CAL YR 1974 TOTAL	46262.5	MEAN 127	MAX 486	MIN 6.1	MEAN† 127	CFSM† 1.99	IN† 27.02					
WTR YR 1975 TOTAL	42690.8	MEAN 117	MAX 328	MIN 6.6	MEAN† 116	CFSM† 1.82	IN† 24.67					

† Monthend contents, in millions of cubic feet, in Flat River Reservoir; records furnished by Quidnick Reservoir Co.

‡ Adjusted for change in contents in Flat River Reservoir.

01116500 PAWTUXET RIVER AT CRANSTON, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, on left bank at Cranston, 0.7 mi (1.1 km) upstream from Pocasset River.

DRAINAGE AREA.--200 mi² (518 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--December 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft (2.438 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 971: 1940-42. WSP 1381: 1940-41(M). WRD Mass., N.H., R.I., Vt., 1973: 1972 (adjusted monthly and yearly figures only).

REMARKS.--Records good. Flow regulated by powerplants and by Scituate Reservoir 13 mi (21 km) upstream, Flat River Reservoir, and other reservoirs (combined usable capacity, about 6,000,000,000 ft³ or 170,000,000 m³). Diversion above station from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry. See table below for figures of diversion and monthend contents in Scituate Reservoir and 5 smaller reservoirs, and see table with station 01116000 for monthend contents in Flat River Reservoir.

AVERAGE DISCHARGE.--35 years (1940-1975), 409 ft³/s (11.58 m³/s), 27.77 in/yr (705 mm/yr), adjusted for storage and diversion.

EXTREMES.--Period of record: Maximum discharge, 3,110 ft³/s (88.1 m³/s) Mar. 18, 1968 (gage height, 11.53 ft or 3.514 m); minimum daily, 22 ft³/s (0.62 m³/s) Sept. 4, 1944.

Current year: Maximum discharge, 1,630 ft³/s (46.2 m³/s) Apr. 3 (gage height, 8.02 ft or 2.444 m); minimum daily, 51 ft³/s (1.44 m³/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	182	57	279	481	728	519	351	124	144	101	71
2	138	162	351	271	396	622	363	375	162	135	98	63
3	159	121	477	250	437	593	799	227	207	138	67	94
4	101	132	363	234	567	716	1170	153	323	124	76	94
5	121	196	302	223	578	689	786	335	223	89	108	89
6	108	141	175	223	590	510	613	367	404	87	101	89
7	106	113	141	363	593	469	626	279	367	150	230	59
8	108	96	196	323	570	489	455	286	314	144	234	57
9	111	89	92	619	379	494	403	275	275	121	200	91
10	113	76	4.3	605	294	449	394	259	250	119	116	89
11	116	168	379	544	417	578	526	124	159	124	89	87
12	87	113	351	555	425	493	576	250	165	204	127	103
13	55	171	347	661	425	523	392	310	396	171	111	182
14	51	153	318	863	417	498	363	283	413	267	98	108
15	78	153	189	686	421	698	359	207	445	223	94	135
16	327	96	234	686	339	455	359	267	375	159	98	138
17	450	65	1040	636	298	377	359	250	219	144	78	124
18	200	103	578	703	544	474	441	219	234	165	71	119
19	156	159	437	888	540	561	355	219	227	121	82	127
20	127	138	409	749	555	1100	335	219	215	80	85	121
21	132	207	367	700	536	961	327	182	150	113	85	108
22	147	159	367	654	429	797	323	168	127	129	91	119
23	101	135	355	633	379	663	318	186	162	113	91	371
24	98	91	230	615	574	445	355	156	153	108	69	636
25	113	103	215	722	1130	640	400	121	147	150	69	682
26	96	147	215	794	910	633	517	127	138	189	74	622
27	61	138	215	636	794	604	477	200	138	82	87	498
28	55	89	200	425	737	590	457	230	129	108	94	294
29	89	101	193	409	---	497	367	182	111	150	98	227
30	150	82	238	517	---	437	327	141	153	113	129	178
31	156	---	242	502	---	575	---	129	---	103	111	---
TOTAL	4072	3879	10196	16968	14755	18358	14061	7077	6905	4267	3262	5775
MEAN	131	129	329	547	527	592	469	228	230	138	105	193
MAX	450	207	1040	888	1130	1100	1170	375	445	267	234	682
MIN	51	65	57	223	294	377	318	121	111	80	67	57
(†)	95.8	95.6	85.4	87.9	88.9	86.9	89.8	99.2	110	121	118	104
(‡)	3963	3897	4411	5044	5084	5139	5282	5169	5053	4706	4348	4227
MEAN††	196	203	607	869	630	699	628	299	294	126	79.3	230
CFSM††	.98	1.02	3.04	4.35	3.15	3.50	3.14	1.50	1.47	.63	.40	1.15
IN.††	1.13	1.13	3.50	5.01	3.28	4.03	3.51	1.73	1.64	.73	.46	1.29

CAL YR 1974 TOTAL 136190 MEAN 373 MAX 1380 MIN 51 MEAN†† 442 CFSM†† 2.21 IN†† 30.00
WTR YR 1975 TOTAL 109575 MEAN 300 MAX 1170 MIN 51 MEAN†† 404 CFSM†† 2.02 IN†† 27.43

† Diversion, in cubic feet per second, from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry.

‡ Monthend contents, in millions of cubic feet, in Scituate Reservoir and 5 smaller reservoirs.

†† Adjusted for diversion and change in contents in Flat River Reservoir and in Scituate Reservoir and 5 smaller reservoirs. Records of diversion and monthend contents furnished by Providence Water Supply Board and Quidnick Reservoir Co.

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: June 1969 to current year.

WATER TEMPERATURES: November 1961 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor; prior to June 1969, water temperature recorder.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 630 micromhos Dec. 2, 1974; minimum, 64 micromhos Dec. 9, 1972.

WATER TEMPERATURES: Maximum, 30.0°C July 1, 1964, Aug. 14, 1973; minimum, freezing point on many days during winter periods 1965-70, 1972-75.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 630 micromhos Dec. 2; minimum, 87 micromhos Jan. 19.

WATER TEMPERATURES: Maximum recorded, 27.5°C July 18, 19, but may have been higher during period of no record in August; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	243	261	343	274	302	314	289	298	238	169	199
2	237	213	220	281	264	276	630	252	304	175	162	168
3	331	222	291	298	265	277	294	175	218	162	151	158
4	---	---	---	311	297	307	172	154	158	156	150	154
5	---	---	---	310	281	297	164	150	156	161	155	157
6	---	---	---	310	275	301	189	160	175	171	160	165
7	---	---	---	279	258	268	201	179	192	175	156	165
8	336	328	331	287	269	276	237	198	220	176	157	166
9	338	278	307	291	272	285	210	176	186	190	142	163
10	282	240	253	307	294	301	191	165	179	162	141	153
11	249	237	243	394	272	316	165	156	160	166	149	160
12	294	245	268	559	422	523	167	155	161	168	148	156
13	301	296	299	492	285	355	173	157	166	168	137	158
14	299	292	296	323	286	304	181	162	169	141	130	135
15	295	250	275	324	303	312	203	184	197	152	134	142
16	314	213	248	340	305	319	226	191	210	152	135	144
17	258	179	203	351	337	346	187	121	140	159	142	151
18	187	172	181	339	292	323	150	140	146	160	89	137
19	193	178	185	361	278	317	162	149	152	123	87	96
20	217	191	209	427	369	399	164	151	158	158	129	150
21	254	221	243	369	286	319	160	151	154	163	143	153
22	269	250	259	342	291	322	166	150	157	152	141	146
23	277	265	272	350	335	342	152	148	150	155	139	148
24	263	234	247	359	338	344	164	153	159	156	140	148
25	240	230	233	379	363	373	197	161	176	194	136	155
26	301	243	272	411	350	371	212	193	207	149	136	143
27	351	306	329	419	320	385	208	199	202	151	136	146
28	377	356	366	328	309	317	198	184	191	166	141	154
29	381	335	368	323	269	302	191	178	184	172	150	162
30	378	309	328	299	263	281	178	166	174	174	146	161
31	433	352	406	---	---	---	215	157	164	162	141	153
MONTH	433	172	274	559	258	325	630	121	183	238	87	153

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	161	143	151	135	119	127	145	115	129	161	147	154
2	165	146	158	136	120	132	161	141	150	165	150	157
3	165	136	158	137	119	131	157	94	133	201	150	177
4	148	131	139	132	117	124	118	94	110	217	197	208
5	144	128	135	132	117	124	124	114	119	221	173	192
6	188	133	163	151	123	137	130	117	124	176	156	166
7	163	145	154	155	130	142	131	117	126	181	144	163
8	152	136	145	155	132	142	148	121	135	174	150	163
9	172	137	154	153	127	139	154	132	144	188	152	173
10	224	174	196	153	126	145	156	138	147	198	155	172
11	193	163	171	140	121	130	145	124	140	227	199	215
12	171	150	161	152	126	139	128	110	119	227	161	194
13	184	146	162	150	130	140	142	115	129	186	167	175
14	181	153	166	156	132	144	163	125	145	168	162	165
15	184	152	168	196	134	167	172	150	160	191	166	178
16	212	161	180	176	147	160	171	148	157	186	156	169
17	246	186	226	189	153	178	168	143	154	193	165	178
18	227	160	187	158	137	148	154	131	143	193	191	192
19	181	151	168	148	132	140	158	132	145	197	187	193
20	170	144	158	138	117	124	160	139	150	195	186	190
21	163	142	152	130	114	122	168	145	155	205	188	196
22	171	142	156	130	117	123	170	150	157	209	191	200
23	180	144	164	139	116	127	168	148	157	223	198	208
24	186	129	164	158	136	149	164	144	155	226	205	216
25	132	124	128	142	126	133	162	143	151	234	220	229
26	140	121	131	139	122	129	151	124	141	221	215	218
27	137	122	129	138	123	129	142	124	133	234	212	222
28	139	122	130	136	121	128	144	124	134	231	201	221
29	---	---	---	140	122	131	155	128	143	212	201	207
30	---	---	---	146	123	134	160	141	149	231	213	222
31	---	---	---	149	116	140	---	---	---	229	217	223
MONTH	246	121	159	196	114	137	172	94	141	234	144	191
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	228	223	225	241	214	228	267	256	262	319	267	288
2	233	218	224	212	185	198	270	261	265	349	320	336
3	276	210	251	207	183	200	---	---	---	344	323	338
4	214	186	199	---	---	---	---	---	---	329	311	319
5	202	190	196	---	---	---	---	---	---	332	309	321
6	201	153	170	---	---	---	---	---	---	314	305	309
7	162	158	161	---	---	---	---	---	---	304	298	302
8	159	155	157	---	---	---	---	---	---	313	286	302
9	169	159	165	---	---	---	---	---	---	289	269	278
10	175	167	170	---	---	---	---	---	---	321	270	300
11	207	171	194	---	---	---	---	---	---	380	318	357
12	210	196	202	---	---	---	---	---	---	369	266	348
13	202	166	175	---	---	---	---	---	---	288	271	279
14	165	142	151	190	174	185	---	---	---	310	274	295
15	140	129	132	195	188	191	---	---	---	331	297	310
16	146	130	135	211	189	199	---	---	---	370	334	358
17	171	147	163	214	196	205	---	---	---	361	337	344
18	176	160	167	220	187	198	---	---	---	336	271	307
19	187	175	181	252	224	247	292	272	286	297	284	290
20	202	176	188	249	181	221	292	272	283	305	287	295
21	250	192	221	233	182	205	306	277	290	301	269	287
22	238	227	232	245	189	230	318	295	305	308	286	298
23	242	226	234	280	205	236	313	299	306	354	244	320
24	246	222	236	281	238	252	312	308	310	224	140	161
25	235	199	218	285	237	261	308	294	302	165	147	154
26	252	234	246	246	230	239	319	290	304	148	140	145
27	248	199	216	250	209	233	322	300	312	162	137	145
28	271	215	255	218	200	207	345	307	326	180	162	172
29	271	250	263	232	220	230	360	345	353	217	179	199
30	254	230	244	243	215	230	347	291	311	244	217	231
31	---	---	---	285	217	258	297	267	278	---	---	---
MONTH	276	129	199	---	---	---	---	---	---	380	137	280
YEAR	630	87	209									

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.5	13.0	15.0	12.5	14.0	5.0	3.0	4.0	3.5	2.5	3.0
2	14.0	12.5	13.5	14.5	13.5	14.0	5.5	4.5	5.0	3.0	2.0	2.5
3	16.0	13.0	14.5	13.5	13.0	13.5	5.5	5.0	5.0	2.0	1.5	2.0
4	---	---	---	14.5	13.0	13.5	5.0	3.0	4.0	3.0	2.0	2.5
5	---	---	---	14.0	13.5	13.5	3.0	2.5	3.0	2.5	2.0	2.0
6	---	---	---	13.5	12.5	13.0	3.5	2.0	2.5	2.0	1.0	1.5
7	---	---	---	12.5	11.5	12.5	3.5	2.0	3.0	2.5	1.5	2.0
8	15.5	14.0	15.0	11.5	10.0	11.0	7.0	3.5	5.0	3.0	1.5	2.5
9	15.0	13.5	14.0	11.0	9.5	10.0	8.5	7.0	8.0	3.0	2.5	3.0
10	14.5	13.0	13.5	11.0	8.5	9.5	7.5	5.5	6.5	3.5	2.5	3.0
11	14.5	13.0	13.5	10.0	8.0	9.0	5.0	4.0	4.5	5.5	3.5	4.0
12	14.5	13.0	13.5	10.0	9.5	9.5	4.5	4.0	4.0	7.0	5.5	6.5
13	14.5	13.5	14.0	10.5	10.0	10.0	4.5	4.0	4.0	6.5	4.5	5.5
14	14.5	12.0	13.5	11.0	9.0	10.0	4.5	4.0	4.0	4.5	3.0	4.0
15	15.0	14.0	14.5	10.0	9.0	9.5	4.0	3.5	4.0	3.0	1.5	2.0
16	14.5	13.0	14.0	9.0	7.5	8.5	3.5	3.0	3.5	1.5	1.0	1.5
17	13.0	12.5	13.0	8.5	7.0	7.5	4.5	3.0	3.5	1.0	0.0	0.5
18	13.0	12.0	12.5	8.0	6.5	7.0	3.0	2.0	2.5	1.0	0.0	0.5
19	12.0	10.5	11.0	8.0	6.0	7.0	2.0	1.5	1.5	3.0	1.0	2.0
20	10.0	9.0	9.5	8.5	7.0	7.5	2.0	1.5	2.0	3.0	1.5	2.5
21	9.0	8.0	8.5	9.0	8.0	8.5	2.5	2.0	2.0	1.5	0.5	1.0
22	9.5	7.5	8.5	8.0	6.5	7.0	2.5	2.0	2.5	2.0	1.0	1.5
23	10.0	8.5	9.0	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.0	1.5
24	10.5	8.5	9.5	6.5	5.0	6.0	3.0	2.5	2.5	2.0	1.0	1.5
25	10.0	8.5	9.5	7.5	5.5	6.5	2.5	2.0	2.0	1.5	1.0	1.5
26	11.0	9.0	10.0	6.0	4.0	5.0	2.0	0.5	1.0	2.0	1.5	2.0
27	11.5	9.5	10.5	4.5	3.0	3.5	1.5	0.5	1.0	1.5	0.5	1.0
28	10.5	8.5	9.5	5.0	3.0	4.0	2.0	1.0	1.5	1.5	0.5	1.0
29	11.5	9.0	10.0	5.0	3.5	4.5	2.5	1.5	2.0	2.5	1.5	2.0
30	11.5	10.0	11.0	4.5	3.0	4.0	3.5	2.5	3.0	2.5	1.5	2.0
31	13.5	11.5	12.5	---	---	---	3.0	2.5	2.5	1.5	0.5	1.0
MONTH	16.0	7.5	12.0	15.0	3.0	9.0	8.5	0.5	3.5	7.0	0.0	2.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	4.5	3.5	4.0	7.5	5.0	6.5	14.0	12.0	13.0
2	0.5	0.0	0.0	3.5	2.5	3.0	9.0	6.5	8.0	13.0	11.5	12.0
3	0.5	0.0	0.0	3.0	2.0	2.5	8.5	7.5	8.0	14.5	11.0	12.5
4	0.0	0.0	0.0	3.0	1.5	2.5	7.5	5.5	6.5	13.5	12.5	13.0
5	0.0	0.0	0.0	3.5	1.5	2.5	6.0	5.0	5.5	12.5	11.0	12.0
6	1.0	0.0	0.5	4.0	2.5	3.5	6.0	5.0	5.5	13.5	10.5	12.0
7	2.0	0.5	1.5	5.0	3.0	4.0	7.0	5.5	6.5	14.5	12.5	13.5
8	1.5	0.0	1.0	5.0	3.5	4.5	7.5	6.0	7.0	15.0	13.0	14.0
9	0.5	0.0	0.0	3.5	2.0	3.0	7.5	6.5	7.0	16.5	13.0	14.5
10	1.0	0.0	0.0	3.0	2.0	2.5	8.5	6.0	7.5	16.5	14.5	15.5
11	0.0	0.0	0.0	3.5	2.0	3.0	9.5	7.0	8.5	19.5	14.5	16.5
12	0.0	0.0	0.0	4.0	3.0	3.5	9.0	7.5	8.5	18.5	15.0	17.0
13	0.5	0.0	0.0	5.0	3.5	4.5	8.5	7.0	8.0	18.0	16.5	17.5
14	1.0	0.0	0.0	5.0	2.5	4.0	9.5	6.5	8.0	19.5	17.0	18.0
15	2.0	0.0	0.5	3.5	2.0	3.0	9.5	8.0	9.0	20.5	17.5	19.0
16	2.5	1.0	1.5	5.0	2.5	3.5	10.0	8.0	9.0	19.0	17.5	18.0
17	3.5	2.0	2.5	6.5	4.5	5.5	11.0	8.5	9.5	20.0	17.5	18.5
18	3.0	2.0	2.5	6.5	4.0	5.5	11.5	9.0	10.5	19.5	17.5	18.5
19	4.0	2.0	3.0	6.0	4.5	5.5	12.0	10.5	11.0	21.0	17.5	19.5
20	4.0	2.5	3.5	7.5	6.0	7.0	12.5	10.5	11.5	22.5	19.0	21.0
21	4.5	3.0	3.5	7.5	6.0	6.5	11.5	9.5	10.5	23.5	20.5	21.5
22	5.0	3.0	4.0	6.5	5.5	6.0	11.5	8.5	10.0	21.5	20.5	21.0
23	4.5	3.5	4.0	7.5	5.5	6.5	12.5	9.0	11.0	23.5	19.5	21.5
24	5.0	4.0	4.5	7.5	7.0	7.5	12.0	11.0	11.5	24.5	21.5	23.0
25	5.0	3.5	4.5	7.5	6.5	7.0	13.0	11.5	12.5	22.0	19.5	21.0
26	5.0	4.0	4.5	8.0	6.5	7.0	13.5	11.0	12.0	21.0	19.0	20.0
27	4.5	3.0	4.0	6.0	4.5	5.5	11.5	10.5	11.0	22.0	19.5	20.5
28	4.5	3.5	4.0	5.5	3.5	4.5	11.5	9.5	10.5	23.0	20.0	21.5
29	---	---	---	6.0	4.5	5.0	13.0	10.0	11.5	23.5	20.5	22.0
30	---	---	---	6.0	5.0	5.5	13.5	10.5	12.0	24.0	21.0	22.0
31	---	---	---	6.5	5.0	6.0	---	---	---	22.5	21.0	21.5
MONTH	5.0	0.0	2.0	8.0	1.5	4.5	13.5	5.0	9.0	24.5	10.5	18.0

01117000 POTOWOMUT RIVER NEAR EAST GREENWICH, R.I.

LOCATION.--Lat 41°38'28", long 71°26'45", Washington County, on right bank 45 ft (14 m) upstream from Old Forge Dam in North Kingstown, 1.5 mi (2.4 km) south of East Greenwich, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--23.0 mi² (59.6 km²).

PERIOD OF RECORD.--Discharge: August 1940 to current year.

Chemical analyses: Water years 1957, 1963 (partial-record station).

Water temperatures: Water years 1957, 1963 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 5.42 ft (1.652 m) above mean sea level, datum of 1929.

REVISIONS (WATER YEARS)--WSP 1621: 1957-58.

REMARKS.--Records good except those below 30 ft³/s (0.85 m³/s), which are fair. Diversions above station for supply of East Greenwich, North Kingstown, Warwick, and Quonset Point (formerly U.S. Naval establishments).

AVERAGE DISCHARGE.--35 years, 43.6 ft³/s (1.235 m³/s).

EXTREMES.--Period of record: Maximum discharge, 866 ft³/s (24.5 m³/s) Mar. 18, 1968 (gage height, 3.36 ft or 1.024 m), from rating curve extended above 440 ft³/s (12.5 m³/s); maximum gage height, 6.78 ft (2.067 m) Aug. 31, 1954 (backwater from hurricane tidal wave); no flow Oct. 25, 1947, Aug. 28-30, 1960, parts of Oct. 1 and 2, 1971, and July 25, 1975 (due to closing of gate at Old Forge Dam).

Maximum stage since at least 1915, about 8.5 ft (2.6 m) Sept. 21, 1938 (backwater from hurricane tidal wave).

Current year: Peak discharges above base of 230 ft³/s (6.51 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	2400	*377 10.7	*2.47 0.759				

No flow for part of July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	16	79	82	86	71	55	35	15	7.8	7.8
2	15	15	74	82	74	82	64	57	27	14	7.8	5.6
3	11	13	92	62	69	76	142	62	21	15	7.8	4.5
4	10	11	57	50	64	69	305	55	22	17	4.9	3.5
5	10	13	41	44	67	67	181	55	19	14	7.8	3.5
6	9.9	14	33	41	76	64	131	53	94	14	7.8	4.5
7	8.2	11	29	86	76	64	110	50	86	17	31	4.5
8	8.0	10	39	102	71	69	47	46	53	17	31	3.5
9	8.2	10	123	134	67	64	89	44	35	17	27	4.5
10	9.3	10	89	178	62	60	84	41	27	17	14	3.5
11	9.0	11	64	131	60	60	79	39	21	17	14	3.5
12	9.1	13	57	131	57	64	76	37	21	60	10	7.8
13	9.4	18	48	134	62	89	74	48	118	77	7.8	24
14	9.6	24	41	178	57	76	69	48	148	52	7.8	13
15	9.2	22	39	131	55	76	67	41	89	35	6.7	7.8
16	37	19	41	105	55	74	64	67	62	27	6.7	6.7
17	77	18	142	89	60	74	62	79	48	24	7.8	5.6
18	40	16	123	89	67	82	60	57	39	14	6.7	4.5
19	25	15	84	160	74	84	60	46	33	15	6.7	4.5
20	19	22	67	137	86	154	60	37	29	10	6.7	5.6
21	15	86	60	110	82	154	55	35	31	10	6.7	7.8
22	15	53	60	94	79	113	50	29	26	7.8	5.6	8.9
23	15	31	62	89	94	97	48	27	24	5.6	4.5	24
24	14	24	60	84	145	86	57	26	21	5.6	4.5	49
25	12	22	67	107	200	94	84	24	19	22	4.5	110
26	11	26	74	166	151	86	118	24	17	22	4.5	71
27	11	24	62	131	113	74	97	22	17	18	4.5	57
28	9.9	19	60	102	92	69	74	29	19	10	3.5	44
29	11	18	55	99	---	67	62	22	19	8.9	3.5	27
30	8.9	18	57	105	---	82	55	18	17	11	11	21
31	14	---	60	92	---	86	---	37	---	10	10	---
TOTAL	493.7	622	1976	3322	2297	2542	2645	1310	1237	632.9	294.6	588.1
MEAN	15.9	20.7	63.7	107	82.0	82.0	88.2	42.3	41.2	20.4	9.63	14.6
MAX	77	86	142	178	200	154	305	79	148	77	31	110
MIN	8.0	10	16	41	55	60	48	18	17	5.6	3.5	3.5

CAL YR 1974 TOTAL 16712.3 MEAN 45.8 MAX 228 MIN 3.2
WTR YR 1975 TOTAL 17964.3 MEAN 49.2 MAX 305 MIN 3.5

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.

LOCATION.--Lat 41°28'56", long 71°33'06", Washington County, on right bank at West Kingston, at downstream side of bridge on State Highway 138, 1.5 mi (2.4 km) west of Kingston, and 3.1 mi (5.0 km) upstream from Worden Pond.

DRAINAGE AREA.--9.99 mi² (25.87 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--February 1958 to July 1960 in Rhode Island Water Resources Board Geologic Bulletin 13. September 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

REMARKS.--Records good. Diversion above station for supply of University of Rhode Island.

EXTREMES.--Period of record: Maximum daily discharge, 71 ft³/s (2.01 m³/s) Feb. 27, 1960; minimum discharge, 4.2 ft³/s (0.12 m³/s) Aug. 21, 22, 1974.

Current year: Maximum discharge, 60 ft³/s (1.70 m³/s) Feb. 26 (gage height, 6.13 ft or 1.868 m); minimum, 5.0 ft³/s (0.14 m³/s) Oct. 15, 16.

Instantaneous maximum and minimum discharges not available prior to Sept. 14, 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	5.4	7.5	15	30	41	24	26	16	12	14	8.2
2	10	5.4	11	16	27	37	23	25	16	11	13	7.6
3	9.4	5.4	16	16	25	34	26	26	16	11	13	7.2
4	8.2	6.1	14	15	23	30	41	27	16	11	12	7.2
5	7.5	5.3	17	14	23	28	50	27	14	11	12	6.7
6	6.4	6.3	14	13	24	26	46	27	18	11	12	6.4
7	6.3	6.3	12	16	25	25	40	26	22	11	15	6.1
8	6.1	6.1	12	22	24	25	35	26	25	11	17	6.0
9	5.4	5.4	15	30	23	25	32	25	23	11	18	5.6
10	5.7	5.4	17	41	22	24	30	24	20	11	18	5.6
11	5.6	5.4	17	47	21	23	28	23	17	11	17	5.4
12	5.6	5.7	14	44	20	23	27	23	16	16	16	5.5
13	5.3	5.7	14	42	20	24	26	24	24	22	15	6.3
14	5.1	6.1	13	45	20	26	25	25	39	25	14	6.1
15	5.0	6.1	12	48	19	26	24	25	47	25	12	5.9
16	6.4	6.1	12	43	18	27	24	28	42	23	11	5.7
17	6.1	5.9	15	37	18	26	23	31	36	21	10	5.8
18	9.4	5.4	19	33	18	26	22	32	32	20	10	5.5
19	8.2	6.1	20	37	19	25	22	31	28	18	10	5.4
20	8.4	6.6	18	44	22	27	23	29	25	17	10	5.5
21	7.4	8.6	17	43	25	31	22	28	22	16	9.3	5.7
22	7.5	11	16	38	27	33	21	25	19	16	9.0	6.1
23	6.4	11	15	34	27	32	21	23	17	15	8.8	6.9
24	6.3	9.4	14	31	34	30	21	21	15	14	8.8	12
25	5.7	9.4	15	30	48	29	24	20	15	15	8.8	17
26	5.7	9.2	16	37	59	28	30	18	14	16	9.0	16
27	6.1	8.6	17	42	54	26	33	17	13	17	9.2	18
28	5.7	8.4	16	40	47	24	32	16	12	17	8.6	18
29	5.4	8.1	15	37	---	23	30	16	12	16	7.5	15
30	5.4	8.1	14	35	---	23	28	15	13	15	8.2	13
31	5.7	---	14	32	---	24	---	15	---	14	8.9	---
TOTAL	214.2	212.4	463.5	1017	762	853	853	744	644	480	365.1	251.4
MEAN	6.91	7.10	15.0	32.8	27.2	27.5	28.4	24.0	21.5	15.5	11.8	8.38
MAX	12	11	20	48	59	41	50	32	47	25	18	18
MIN	5.0	5.7	7.5	13	18	23	21	15	12	11	7.5	5.4
CAL YR 1974	TOTAL	6296.4	MEAN 17.3	MAX 53	MIN 4.2							
WTR YR 1975	TOTAL	6860.1	MEAN 18.8	MAX 59	MIN 5.0							

PAWCATUCK RIVER BASIN

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1973 to current year.

WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 143 micromhos Oct. 30, 1973; minimum, 53 micromhos Apr. 19, 1974.

WATER TEMPERATURES: Maximum, 30°C Aug. 2, 1975; minimum, freezing point Feb. 5, 1974, Jan. 21, Feb. 12, 14, 1975.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum 131 micromhos Aug. 28; minimum, 85 micromhos Jan. 15, 20, 21.

WATER TEMPERATURES: Maximum, 30°C Aug. 2; minimum, freezing point Jan. 21, Feb. 12, 14.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	125	121	123	123	115	121	---	---	---
2	116	115	116	122	120	121	129	115	122	---	---	---
3	117	116	116	122	120	121	121	116	118	---	---	---
4	120	118	119	121	116	120	118	114	117	103	101	102
5	122	120	121	121	118	119	117	116	117	103	101	102
6	124	122	123	120	118	119	118	113	117	104	103	103
7	124	123	124	119	118	119	118	117	118	105	92	99
8	123	121	122	121	112	119	119	116	118	97	95	96
9	123	121	122	124	122	123	118	112	115	96	89	92
10	124	122	123	125	120	124	115	113	114	93	91	92
11	124	122	123	126	125	125	115	112	115	92	91	91
12	124	123	124	126	123	126	115	114	114	95	91	93
13	125	124	125	127	124	126	116	110	114	93	86	89
14	126	124	125	127	113	123	116	99	107	90	86	88
15	128	125	127	126	106	122	112	100	106	88	85	86
16	128	124	126	---	---	---	115	110	113	88	86	87
17	125	122	124	---	---	---	117	105	113	91	87	89
18	124	121	123	124	121	123	---	---	---	94	90	92
19	124	122	123	124	123	124	110	96	102	92	89	91
20	124	122	123	127	108	121	107	98	102	89	85	87
21	124	123	124	126	118	122	---	---	---	86	85	85
22	128	123	125	120	117	117	---	---	---	88	86	87
23	128	126	127	118	117	117	108	101	105	91	87	88
24	126	123	124	118	117	118	---	---	---	94	89	91
25	124	123	124	119	118	118	---	---	---	92	91	92
26	124	123	124	118	118	118	---	---	---	94	91	92
27	124	118	123	119	117	118	---	---	---	92	89	91
28	123	114	122	120	110	119	---	---	---	92	88	90
29	124	123	123	120	120	120	108	104	107	96	91	93
30	125	123	124	121	109	120	106	101	104	97	93	95
31	124	122	123	---	---	---	---	---	---	96	93	94
MONTH	128	114	123	127	106	121	---	---	---	105	85	92

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	97	94	95	92	89	91	104	98	100	98	90	93
2	100	95	97	92	88	89	104	100	101	97	95	96
3	102	98	100	95	89	91	107	94	102	98	94	96
4	103	100	102	95	90	92	94	90	93	96	95	96
5	103	98	100	97	91	93	90	87	88	95	93	94
6	100	99	100	96	92	93	89	87	87	100	94	96
7	101	98	99	96	91	93	92	87	89	100	96	98
8	102	98	100	94	92	93	94	89	91	101	96	98
9	102	101	101	94	91	92	95	91	92	103	97	99
10	104	101	103	95	92	93	99	93	95	103	99	101
11	104	102	103	96	93	94	100	95	98	104	100	102
12	104	100	103	99	94	96	100	96	98	106	101	103
13	107	103	105	98	95	97	100	97	99	105	102	103
14	109	106	107	96	93	94	103	97	99	105	101	103
15	111	107	108	96	93	94	100	97	98	108	103	104
16	109	108	109	99	93	96	101	97	99	109	99	104
17	111	108	109	101	96	98	105	98	100	104	98	100
18	109	106	107	100	95	97	102	98	100	99	97	98
19	109	106	107	102	97	99	100	98	99	100	97	98
20	107	103	104	104	96	100	101	97	99	104	100	101
21	103	101	102	99	95	96	101	97	99	114	104	109
22	106	100	102	100	95	97	102	96	98	111	108	109
23	102	101	102	100	96	98	102	97	99	115	108	111
24	101	95	98	102	98	100	99	97	98	111	108	110
25	96	92	94	102	100	101	96	93	95	110	104	107
26	94	90	92	102	98	100	95	90	92	107	104	105
27	92	88	90	102	99	100	90	88	89	109	106	107
28	91	87	89	106	100	103	90	87	89	110	106	108
29	---	---	---	107	105	106	91	87	89	111	107	109
30	---	---	---	105	101	104	93	88	90	111	108	109
31	---	---	---	100	98	99	---	---	---	112	108	110
MONTH	111	87	101	107	88	96	107	87	96	115	90	102
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	107	108	107	101	104	128	114	117	121	117	119
2	110	105	108	107	103	105	119	112	116	122	119	120
3	108	106	107	109	105	107	120	115	116	120	118	119
4	108	106	107	109	107	108	116	114	115	122	117	120
5	107	105	106	110	107	108	121	115	118	127	120	123
6	106	101	102	110	108	108	122	117	119	126	120	123

PAWCATUCK RIVER BASIN

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	15.5	17.0	15.0	13.0	14.0	3.5	2.0	2.5	3.5	2.0	3.0
2	17.5	15.5	16.5	14.5	12.5	13.5	6.0	3.5	4.5	3.5	1.5	2.5
3	15.5	13.5	14.5	12.5	11.5	12.0	5.0	3.5	4.5	2.5	1.0	2.0
4	15.0	12.0	13.5	14.0	12.0	13.0	4.5	2.0	3.5	4.0	2.0	2.5
5	15.5	11.5	13.5	13.5	12.0	12.5	4.5	1.5	3.0	3.5	1.5	2.5
6	17.0	13.0	15.0	13.0	11.5	12.0	4.5	2.0	3.0	3.5	1.5	2.5
7	17.5	14.0	15.5	11.5	10.5	11.0	5.0	2.0	3.5	3.0	2.0	3.0
8	15.5	13.0	14.5	10.5	9.0	9.5	7.0	4.5	5.5	4.0	1.5	2.5
9	14.5	12.0	13.5	10.0	8.0	9.0	6.5	4.0	6.0	3.0	2.5	3.0
10	14.5	11.5	13.5	9.5	7.0	8.5	4.5	3.5	4.0	3.0	2.5	3.0
11	14.0	11.5	13.0	10.0	6.5	8.5	5.5	3.0	4.0	5.5	3.0	4.0
12	14.0	11.0	12.5	10.5	9.5	10.0	5.0	3.5	4.0	6.0	4.5	5.0
13	14.5	13.0	13.5	11.5	10.0	11.0	5.0	3.5	4.0	5.0	3.5	4.0
14	14.0	10.5	12.0	10.5	8.0	9.5	5.0	4.0	4.5	4.0	2.5	3.5
15	16.0	13.5	15.0	10.0	8.5	9.5	4.5	3.0	3.5	3.5	2.0	2.5
16	15.5	12.5	13.5	8.5	6.5	7.5	4.5	3.5	4.0	3.0	1.5	2.5
17	14.0	12.0	13.0	7.5	6.0	7.0	6.0	4.0	5.0	2.5	1.0	1.5
18	14.0	11.0	12.5	7.5	5.5	6.5	4.5	3.0	3.5	2.5	1.0	1.5
19	12.5	9.5	11.0	8.0	5.5	6.5	4.0	2.5	3.5	3.5	2.0	2.5
20	11.0	9.0	10.0	9.0	6.5	7.5	4.5	3.0	3.5	3.0	0.5	2.0
21	11.0	7.5	9.5	9.0	7.0	8.0	4.0	3.0	3.5	1.5	0.0	1.0
22	11.5	7.5	9.5	7.0	5.0	6.0	4.5	2.5	4.0	2.5	1.0	1.5
23	11.0	9.0	10.0	6.5	4.0	5.0	4.0	2.5	3.0	3.0	1.0	1.5
24	11.0	8.5	10.0	7.0	4.5	5.5	3.5	2.5	3.5	3.5	1.5	2.0
25	10.5	7.5	9.0	8.0	5.5	6.5	2.5	2.0	2.0	3.5	2.0	2.5
26	11.5	9.0	10.0	6.0	3.5	5.0	2.5	0.5	1.5	4.0	2.5	3.0
27	11.5	8.5	10.0	5.0	2.5	3.5	2.5	1.5	2.0	3.0	1.5	2.5
28	10.0	7.0	9.0	5.0	3.0	4.0	3.5	1.5	2.0	3.0	1.5	2.0
29	11.5	8.0	10.0	5.0	3.5	4.0	3.0	1.5	2.0	3.5	2.5	3.0
30	13.0	10.0	11.5	4.0	2.5	3.5	3.5	2.0	3.0	4.0	2.0	3.0
31	14.0	11.5	13.0	---	---	---	3.5	1.5	2.5	2.5	1.5	1.5
MONTH	19.0	7.0	12.5	15.0	2.5	8.5	7.0	0.5	3.5	6.0	0.0	2.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	1.5	2.0	4.5	3.5	4.0	10.0	5.5	7.5	15.0	12.0	13.0
2	3.5	1.5	2.0	3.5	2.5	3.0	10.5	6.0	8.0	12.5	11.5	12.0
3	3.5	1.0	2.0	5.0	2.0	3.0	8.0	6.5	7.5	15.5	11.0	13.0
4	3.0	1.0	2.0	5.5	2.0	3.0	6.5	5.5	6.0	13.0	12.0	12.5
5	2.0	1.0	2.0	5.5	2.0	3.5	6.5	5.0	5.5	11.5	10.0	11.0
6	3.0	2.0	2.5	5.5	2.5	4.0	7.0	5.0	6.0	15.5	10.0	12.5
7	4.0	2.0	2.5	6.5	3.0	4.5	9.0	5.0	6.5	15.5	12.0	13.5
8	3.5	1.0	2.0	5.5	3.5	5.0	8.5	5.5	7.0	16.0	12.0	13.5
9	2.5	1.5	2.0	5.5	2.0	3.5	8.5	5.5	7.0	18.0	12.0	14.5
10	3.0	1.0	1.5	4.0	2.5	3.0	10.5	5.0	7.5	18.0	13.5	15.5
11	2.0	1.0	1.5	5.0	3.0	4.0	11.0	6.0	8.0	18.5	14.0	16.0
12	1.5	0.0	1.0	5.0	3.5	4.0	10.5	6.5	8.0	19.0	14.5	16.5
13	2.5	0.5	1.0	5.5	4.0	5.0	9.5	6.5	8.0	19.0	15.5	16.5
14	2.5	0.0	1.0	4.0	2.5	3.5	12.0	6.5	8.5	21.0	16.5	18.5
15	3.0	0.5	1.5	5.5	2.5	3.5	10.0	7.0	8.5	21.5	16.5	18.5
16	2.5	1.5	2.0	6.0	2.5	4.0	9.5	7.5	8.5	20.5	17.0	18.5
17	3.5	1.0	2.0	7.0	3.5	5.0	12.5	7.5	9.5	22.0	17.0	19.5
18	3.0	1.5	2.0	8.0	3.5	5.5	11.5	7.5	9.5	20.5	17.0	18.5
19	4.5	2.0	3.0	7.0	4.5	6.0	11.0	9.5	10.0	22.0	17.5	19.5
20	4.5	1.5	3.0	7.0	6.0	6.5	12.5	8.5	10.5	24.0	18.0	21.0
21	5.0	2.0	3.0	9.0	5.0	6.5	13.0	8.5	10.0	25.0	20.0	22.0
22	5.5	2.0	3.5	6.5	5.0	6.0	13.5	8.0	10.5	22.5	20.5	21.5
23	4.0	3.0	3.5	9.5	6.0	7.5	14.5	8.5	11.0	24.5	20.0	22.0
24	4.0	3.5	4.0	7.5	6.0	7.0	12.5	11.0	11.5	25.5	21.5	23.5
25	5.5	3.5	4.5	8.5	7.0	7.5	13.5	11.5	12.5	23.0	20.5	21.5
26	5.5	3.5	4.5	10.0	6.0	7.5	15.0	11.0	12.5	22.5	19.0	20.5
27	5.5	3.0	4.0	8.5	4.5	6.5	12.0	10.5	11.0	23.5	19.5	21.5
28	5.5	2.5	4.0	9.5	4.0	6.5	13.0	9.5	11.5	25.0	20.0	22.5
29	---	---	---	7.5	5.0	6.5	15.0	10.0	12.0	25.5	20.0	22.5
30	---	---	---	8.0	6.5	7.0	15.5	10.5	13.0	24.0	20.0	22.0
31	---	---	---	8.5	5.0	6.5	---	---	---	22.5	20.5	21.5
MONTH	5.5	0.0	2.5	10.0	2.0	5.0	15.5	5.0	9.0	25.5	10.0	18.0

PAWCATUCK RIVER BASIN

01117420 USQUEPAUG RIVER NEAR USQUEPAUG, R.I.

LOCATION.--Lat 41°28'36", long 71°36'19", Washington County, on left bank at upstream side of Heaton Orchard Bridge on State Highway 2 in South Kingstown, 1.2 mi (1.9 km) upstream from Chickasheen Brook, 1.8 mi (2.9 km) south of Usquepaug, and 2.6 mi (4.2 km) west of West Kingstown.

DRAINAGE AREA.--36.1 mi² (93.5 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--February 1958 to July 1960 in Rhode Island Water Resources Board Geologic Bulletin 13. December 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

REMARKS.--Records good.

EXTREMES.--Dec. 5, 1974, to September 1975: Maximum discharge, 252 ft³/s (7.14 m³/s) Apr. 5 (gage height, 5.77 ft or 1.759 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Sept. 9-11.
Instantaneous maximum and minimum discharges not available prior to Dec. 5, 1974.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	74	127	146	102	73	54	36	21	15
2	---	83	116	134	92	73	49	33	16	13
3	---	74	107	126	102	83	43	33	14	12
4	---	67	98	117	215	77	42	31	14	9.6
5	59	62	95	108	244	79	41	37	14	8.6
6	49	58	102	104	204	76	74	34	15	7.8
7	44	72	105	99	166	69	109	33	27	7.4
8	47	97	103	100	143	65	81	30	33	7.2
9	90	109	97	100	130	63	59	30	31	7.0
10	102	174	84	93	120	60	51	29	26	7.0
11	85	195	86	87	114	58	46	29	22	7.0
12	66	171	88	89	108	56	44	41	19	8.0
13	60	161	91	104	103	61	100	74	17	25
14	57	198	86	114	98	65	183	64	15	19
15	55	204	81	112	94	58	177	47	14	15
16	56	175	76	107	93	72	134	41	13	12
17	101	149	76	103	89	97	102	37	14	11
18	128	133	80	102	85	79	85	39	14	10
19	123	166	87	96	83	65	74	37	13	10
20	98	200	100	112	81	59	63	32	12	10
21	79	187	102	160	76	55	55	33	11	11
22	75	164	96	162	71	50	50	32	11	13
23	73	145	98	141	68	49	47	27	12	20
24	70	132	129	123	72	48	44	25	11	55
25	73	131	210	118	94	46	42	30	14	84
26	87	173	239	117	118	44	40	36	14	83
27	75	196	212	108	132	44	38	31	13	70
28	69	174	170	97	113	46	38	27	10	57
29	65	153	---	92	91	43	39	25	10	41
30	63	147	---	93	80	39	39	23	16	31
31	65	139	---	104	---	49	---	22	19	---
TOTAL		4363	3146	3468	3381	1901	2043	1078	505	686.6
MEAN		141	112	112	113	61.3	68.1	34.8	16.3	22.9
MAX		204	239	162	244	97	183	74	33	84
MIN		58	76	87	68	39	38	22	10	7.0
CFSM		3.91	3.10	3.10	3.13	1.70	1.89	.96	.45	.63
IN.		4.50	3.24	3.57	3.48	1.96	2.11	1.11	.52	.71

01117420 USQUEPAUG RIVER NEAR USQUEPAUG, R.I.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: December 1974 to current year.

WATER TEMPERATURES: December 1974 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES.--December 1974 to current year.

SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Sept. 30; minimum, 45 micromhos June 14.

WATER TEMPERATURES: Maximum, 27.0°C Aug. 3; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), DECEMBER 1974 TO SEPTEMBER 1975

DAY	DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	62	58	60
2	---	---	---	60	56	58
3	---	---	---	60	59	60
4	---	---	---	61	59	60
5	---	---	---	62	60	61
6	---	---	---	64	62	63
7	---	---	---	64	59	61
8	---	---	---	58	53	56
9	---	---	---	58	50	54
10	---	---	---	50	47	48
11	---	---	---	52	49	51
12	---	---	---	54	53	54
13	---	---	---	55	53	54
14	---	---	---	53	51	52
15	---	---	---	54	51	53
16	---	---	---	57	54	56
17	55	53	54	59	57	58
18	56	53	55	61	57	59
19	56	54	55	57	54	55
20	57	55	56	56	54	56
21	58	57	58	58	55	57
22	59	57	58	59	56	57
23	59	57	58	60	57	59
24	60	58	59	61	58	60
25	64	58	60	61	57	59
26	59	54	57	57	54	55
27	63	59	62	56	54	55
28	62	59	61	57	55	56
29	62	60	61	57	56	57
30	62	60	61	59	57	58
31	62	60	61	59	58	59
MONTH	---	---	---	64	47	57

01117420 USQUEPAUG RIVER NEAR USQUEPAUG, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), DECEMBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	61	60	61	59	55	57	84	58	61	62	61	62
2	63	61	62	78	55	62	62	60	61	62	61	62
3	---	---	---	77	57	63	64	56	61	62	60	61
4	---	---	---	---	---	---	69	46	57	62	61	61
5	---	---	---	---	---	---	73	47	57	62	60	61
6	---	---	---	63	61	62	74	48	53	62	61	62
7	---	---	---	63	61	62	73	53	55	63	62	62
8	---	---	---	64	61	63	56	52	54	64	63	63
9	---	---	---	62	59	61	57	55	56	64	63	64
10	---	---	---	66	61	62	92	56	60	65	64	65
11	---	---	---	65	62	63	77	56	62	66	65	65
12	---	---	---	64	62	63	85	59	61	67	65	66
13	---	---	---	64	60	62	92	59	67	67	66	67
14	66	63	65	61	60	61	87	60	68	66	65	66
15	66	64	65	62	58	60	66	65	65	68	65	67
16	66	65	66	62	58	60	66	64	65	68	63	66
17	67	65	66	65	61	63	66	65	66	62	59	60
18	78	64	66	62	59	60	66	65	66	63	60	62
19	66	62	64	64	57	62	67	66	66	64	63	64
20	66	61	63	64	59	61	67	66	66	66	64	65
21	63	60	62	59	56	57	67	64	66	68	65	67
22	63	61	63	57	56	56	66	65	66	68	67	68
23	64	61	63	60	57	58	67	65	66	68	67	68
24	62	55	59	61	58	60	67	65	66	70	68	69
25	55	50	52	60	56	59	65	61	63	69	68	68
26	51	49	49	61	56	59	61	57	59	69	68	68
27	52	51	52	61	57	60	58	56	57	71	68	69
28	55	52	53	65	59	61	60	57	58	71	69	70
29	---	---	---	64	62	63	61	59	60	71	69	70
30	---	---	---	64	62	63	62	60	61	73	71	72
31	---	---	---	62	58	60	---	---	---	72	68	70
MONTH	---	---	---	78	55	61	92	46	62	73	59	65
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	68	67	68	67	66	67	75	74	74	85	78	82
2	68	67	68	68	66	67	79	75	76	86	81	84
3	68	67	67	68	67	68	79	76	77	86	82	84
4	68	67	67	68	67	68	78	77	78	89	84	88
5	68	66	67	67	65	66	78	77	78	90	86	88
6	68	57	63	66	65	66	81	77	78	91	86	89
7	57	53	54	66	65	66	81	73	77	89	83	86
8	58	55	57	66	65	66	73	71	72	85	83	84
9	60	58	59	66	64	65	79	70	74	86	84	85
10	63	60	61	66	65	65	79	77	78	86	84	85
11	65	62	63	---	---	---	81	77	78	87	85	86
12	65	65	65	---	---	---	80	78	79	88	87	87
13	64	49	57	---	---	---	81	79	80	87	80	83
14	48	45	46	62	62	62	80	78	79	81	80	81
15	49	46	48	64	62	63	80	78	79	82	81	82
16	53	49	51	66	64	65	80	79	80	85	83	84
17	55	53	54	67	65	66	80	79	79	86	84	85
18	57	55	56	67	65	66	81	80	80	86	85	85
19	59	57	58	68	65	67	82	79	81	86	84	85
20	61	59	60	73	68	70	83	81	82	85	84	84
21	65	61	63	73	69	71	83	81	82	84	83	84
22	65	64	64	70	68	68	86	83	85	84	83	83
23	66	64	65	73	69	71	85	82	83	82	79	81
24	68	66	67	73	71	72	84	83	84	82	75	77
25	69	67	68	73	70	71	85	82	84	75	72	73
26	68	66	67	69	68	68	85	83	84	76	73	74
27	68	67	67	70	68	69	86	83	85	78	75	76
28	68	67	67	71	69	70	87	82	85	79	75	77
29	67	66	67	72	71	71	86	83	85	84	78	80
30	67	66	66	72	72	72	85	77	82	95	84	89
31	---	---	---	74	72	73	80	74	77	---	---	---
MONTH	69	45	62	74	62	68	87	70	80	95	72	83
YEAR	95	45	66									

01117420 USQUEPAUG RIVER NEAR USQUEPAUG, R.I.--Continued

TEMPERATURE (°C) OF WATER, DECEMBER 1974 TO SEPTEMBER 1975

DECEMBER							JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	---	---	---	3.0	2.5	3.0			
2	---	---	---	3.0	2.0	2.5			
3	---	---	---	2.0	1.5	2.0			
4	---	---	---	2.5	1.5	2.0			
5	---	---	---	3.0	2.0	2.5			
6	---	---	---	2.5	1.5	2.0			
7	---	---	---	2.0	1.5	2.0			
8	---	---	---	2.5	2.0	2.0			
9	---	---	---	3.0	2.0	2.5			
10	---	---	---	3.0	3.0	3.0			
11	---	---	---	6.0	3.0	4.0			
12	---	---	---	7.5	6.0	7.0			
13	---	---	---	7.0	5.0	6.0			
14	---	---	---	5.0	2.5	4.0			
15	---	---	---	2.5	0.5	1.5			
16	---	---	---	1.0	0.0	0.5			
17	4.5	4.0	4.0	0.5	0.0	0.0			
18	4.0	2.0	3.0	0.5	0.0	0.0			
19	2.0	1.5	1.5	1.5	0.0	0.5			
20	2.5	1.5	2.0	1.5	0.0	1.0			
21	3.0	2.5	2.5	0.0	0.0	0.0			
22	3.5	3.0	3.0	1.0	0.0	0.5			
23	3.5	2.5	3.0	1.5	0.5	1.0			
24	3.5	3.0	3.0	2.0	1.0	1.5			
25	3.0	2.5	3.0	3.0	1.5	2.5			
26	2.5	0.5	1.0	4.0	2.5	3.5			
27	1.5	0.5	1.0	3.0	1.5	2.5			
28	2.0	0.5	1.0	2.0	1.0	1.5			
29	2.5	1.5	2.0	3.5	1.5	2.5			
30	2.5	2.0	2.5	3.5	2.5	3.0			
31	3.5	2.5	3.0	2.0	0.5	1.5			
MONTH	---	---	---	7.5	0.0	2.0			

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.5	---	---	---	8.0	3.5	5.0	13.5	11.0	12.0
2	1.0	0.0	0.5	---	---	---	9.0	6.5	7.5	12.0	10.5	11.5
3	---	---	---	---	---	---	8.5	7.0	8.0	13.0	10.0	11.0
4	---	---	---	---	---	---	---	---	---	12.5	12.0	12.0
5	---	---	---	---	---	---	---	---	---	11.5	9.5	10.5
6	---	---	---	4.5	2.0	4.0	---	---	---	12.5	9.5	10.5
7	---	---	---	5.5	3.5	4.0	7.5	5.0	6.0	14.5	11.5	13.0
8	---	---	---	6.5	5.5	6.0	7.5	5.5	6.5	14.0	12.0	13.0
9	---	---	---	5.0	3.0	4.0	7.0	4.5	6.0	15.0	11.5	13.0
10	---	---	---	3.0	1.5	2.5	8.0	5.5	6.0	15.5	13.0	14.0
11	---	---	---	3.5	1.5	2.5	9.0	6.0	7.5	16.0	13.5	14.5
12	---	---	---	4.5	3.0	4.0	9.5	7.5	8.0	17.0	14.0	15.5
13	---	---	---	6.5	4.5	5.5	8.0	2.5	6.0	17.0	15.5	16.0
14	---	---	---	6.0	3.5	5.0	10.0	6.5	9.0	18.5	15.5	17.0
15	1.0	0.0	0.0	4.0	2.0	3.0	10.0	8.5	9.0	19.5	16.0	17.5
16	1.5	0.0	1.0	5.5	3.0	4.0	9.5	8.0	8.5	18.5	16.5	17.5
17	2.5	1.0	1.5	6.5	4.0	5.0	11.5	8.5	10.0	18.5	15.5	16.5
18	3.0	2.0	2.5	6.5	3.0	5.0	12.0	9.5	10.5	17.5	15.5	16.5
19	3.5	2.5	3.0	7.0	2.5	6.5	11.5	10.5	11.0	18.5	15.5	16.5
20	4.0	3.0	3.0	8.5	7.0	7.5	12.0	10.5	11.5	20.5	16.5	18.5
21	4.0	3.0	3.0	9.0	6.5	7.5	14.0	10.0	11.0	21.5	19.0	20.0
22	4.5	2.5	3.5	7.0	6.0	6.5	12.0	9.0	10.5	20.5	19.0	20.0
23	4.5	3.5	4.0	8.5	6.0	7.0	12.5	9.0	10.5	20.5	18.5	19.5
24	4.5	4.0	4.0	8.0	6.5	7.5	12.5	11.0	11.5	22.5	19.0	21.0
25	5.0	3.5	4.0	8.0	6.5	7.5	12.5	11.5	12.0	21.0	18.5	19.5
26	5.5	4.0	5.0	9.0	3.0	5.0	14.0	11.5	12.5	18.5	17.0	17.5
27	5.5	4.0	4.5	6.5	4.0	5.5	11.5	9.5	11.0	19.5	17.0	18.0
28	5.5	3.5	5.0	5.5	3.0	4.0	11.0	9.0	10.0	21.5	17.5	20.0
29	---	---	---	6.0	4.5	5.5	12.5	9.5	10.5	22.0	19.0	20.5
30	---	---	---	6.5	5.5	6.0	13.5	10.0	11.5	20.5	18.5	19.5
31	---	---	---	6.5	4.0	5.5	---	---	---	19.5	18.5	19.5
MONTH	---	---	---	9.0	1.5	5.0	14.0	2.5	9.0	22.5	9.5	16.0

01117468 BEAVER RIVER NEAR USQUEPAUG, R.I.

LOCATION.--Lat 41°29'33", long 71°37'43", Washington County, on right bank 10 ft (3 m) downstream from Beaver River Bridge on State Highway 138 in Richmond, 1.2 mi (1.9 km) southwest of Usquepaug, 3.3 mi (5.3 km) north of Keryon, and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--8.87 mi² (23.0 km²).

PERIOD OF RECORD.--December 1974 to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 107.68 ft (32.821 m) above mean sea level.

REMARKS.--Records good.

EXTREMES.--December 1974 to September 1975: Peak discharges above base of 65 ft³/s (1.84 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	1100	70 1.98	2.56 0.780	Apr. 4	0445	*80 2.27	*2.64 .805

Minimum discharge, 2.1 ft³/s (0.059 m³/s) Sept. 6-12.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	23	34	38	30	23	15	11	6.4	4.0
2	---	24	32	36	27	23	15	11	6.1	3.8
3	---	22	30	34	41	25	14	10	5.7	3.7
4	20	20	28	33	75	25	14	10	5.4	3.4
5	16	19	28	31	56	25	14	10	5.4	3.0
6	14	18	30	29	46	24	28	11	5.4	2.3
7	13	23	31	28	42	22	27	11	9.5	2.1
8	16	28	29	30	38	21	20	11	10	2.1
9	37	35	28	30	36	20	18	10	10	2.1
10	31	47	25	28	33	20	16	9.4	8.7	2.1
11	25	38	24	28	32	20	15	8.5	7.2	2.1
12	22	38	23	28	31	19	15	14	6.7	2.7
13	21	40	24	35	30	20	43	19	6.0	6.4
14	20	55	24	32	29	20	49	15	5.6	4.2
15	19	45	23	31	29	19	34	13	5.0	3.7
16	20	39	23	30	29	24	29	12	4.7	3.2
17	42	35	23	30	28	27	27	11	4.4	3.0
18	38	33	23	30	27	21	25	12	4.4	3.0
19	30	52	25	28	27	19	23	11	4.2	3.0
20	27	49	28	43	26	18	20	10	3.9	3.0
21	25	42	28	49	25	17	18	10	3.8	3.3
22	25	38	26	40	24	16	17	9.9	3.8	3.5
23	24	35	28	36	23	16	16	9.2	3.7	6.0
24	23	33	41	33	24	15	16	8.4	3.5	16
25	24	35	61	33	30	14	15	9.3	3.5	18
26	27	54	55	31	39	14	14	11	3.5	15
27	23	47	45	30	33	14	13	8.8	3.5	13
28	22	39	40	30	28	14	13	7.9	3.5	13
29	21	38	---	29	26	14	12	7.4	3.2	9.8
30	21	38	---	30	24	13	12	7.1	5.3	7.7
31	21	36	---	31	---	15	---	6.8	5.2	---
TOTAL		1118	859	1004	988	597	607	325.7	167.2	168.2
MEAN		36.1	30.7	32.4	32.9	19.3	20.2	10.5	5.39	5.61
MAX		55	61	49	75	27	49	19	10	18
MIN		18	23	28	23	13	12	6.8	3.2	2.1
CFSM		4.07	3.46	3.65	3.71	2.18	2.28	1.18	.61	.63
IN.		4.69	3.60	4.21	4.14	2.50	2.55	1.37	.70	.71

01117500 PAWCATUCK RIVER AT WOOD RIVER JUNCTION, R.I.

LOCATION.--Lat 41°26'42", long 71°40'53", Washington County, on right bank at downstream side of bridge on Alton-Carolina road, 0.8 mi (1.3 km) northeast of Wood River Junction, 1.5 mi (2.4 km) southwest of Carolina, and 2.9 mi (4.7 km) upstream from Wood River.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--Discharge: October 1940 to current year. October and November 1940 monthly discharge only, published in WSP 1301. Prior to October 1943, published as Charles River at Wood River Junction.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 43.86 ft or 13.369 m above mean sea level.

REVISIONS (WATER YEARS).--WSP 1051: Drainage area. WSP 1201: 1948.

REMARKS.--Records good. Occasional regulation at low flow by powerplant and mills above station; regulation greater prior to 1969.

AVERAGE DISCHARGE.--35 years, 190 ft³/s (5.381 m³/s), 25.80 in/yr (655 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,700 ft³/s (48.1 m³/s) Mar. 19, 1968 (gage height, 7.80 ft or 2.377 m); minimum, 7.4 ft³/s (0.21 m³/s) Oct. 10, 1947; minimum daily, 15 ft³/s (0.42 m³/s) Oct. 11, 1947. Current year: Maximum discharge, 524 ft³/s (14.8 m³/s) Feb. 26 (gage height, 4.37 ft or 1.332 m); minimum, 46 ft³/s (1.30 m³/s) Sept. 12; minimum daily, 47 ft³/s (1.33 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	76	77	188	333	443	261	227	156	124	76	62
2	114	75	138	195	308	402	255	222	156	118	74	61
3	90	73	149	193	285	368	283	225	147	112	70	58
4	79	72	206	185	262	337	392	227	143	108	68	55
5	73	72	188	174	252	314	463	231	138	106	68	54
6	69	74	154	165	252	298	479	227	179	108	67	51
7	67	73	133	190	271	284	438	217	212	106	91	50
8	64	71	135	216	272	281	389	208	219	104	99	50
9	62	69	173	266	266	271	351	201	195	100	97	50
10	61	67	197	337	244	260	325	195	170	97	88	49
11	59	66	199	370	239	255	305	189	153	95	81	47
12	58	66	181	391	222	255	289	184	149	118	76	49
13	58	71	162	395	216	274	274	187	249	151	71	55
14	57	75	152	448	220	282	262	193	365	157	68	59
15	57	74	145	460	221	297	254	189	398	147	65	58
16	77	71	148	438	221	289	247	204	383	132	64	57
17	119	68	198	398	223	282	240	232	341	120	64	54
18	130	67	224	355	229	274	232	235	297	114	71	53
19	123	66	234	404	240	267	227	217	263	112	62	50
20	103	71	223	442	258	299	223	200	239	104	59	50
21	89	112	204	437	265	333	215	189	212	102	58	51
22	82	123	191	414	262	349	208	180	193	99	54	51
23	79	116	182	386	268	346	203	172	175	93	54	61
24	76	101	177	356	318	322	206	167	164	89	54	124
25	75	93	185	352	431	316	232	162	155	97	57	162
26	74	90	201	400	508	303	281	155	147	110	58	173
27	73	85	197	416	522	283	293	151	142	102	57	170
28	71	82	189	416	489	267	285	150	138	95	57	157
29	70	80	178	399	---	256	265	146	136	89	53	136
30	70	78	173	382	---	258	243	140	130	84	57	118
31	75	---	171	357	---	265	---	148	---	79	62	---
TOTAL	2496	2377	5504	10525	8097	9330	8620	5970	6144	3372	2100	2275
MEAN	80.5	79.2	178	340	289	301	287	193	205	109	67.7	75.8
MAX	142	123	234	460	522	443	479	235	398	157	99	173
MIN	57	66	77	165	216	255	203	140	130	79	53	47
CFSM	.81	.79	1.78	3.40	2.89	3.01	2.87	1.93	2.05	1.09	.68	.76
IN.	.93	.88	2.05	3.92	3.01	3.47	3.21	2.22	2.29	1.25	.78	.85

CAL YR 1974 TOTAL 66391 MEAN 182 MAX 503 MIN 41 CFSM 1.82 IN 24.70
WTR YR 1975 TOTAL 66810 MEAN 183 MAX 522 MIN 47 CFSM 1.83 IN 24.85

01117800 WOOD RIVER NEAR ARCADIA, R.I.

LOCATION.--Lat 41°34'26", long 71°43'16", Washington County, on left bank at upstream side of bridge on Ten Rod Road, 1.8 mi (2.9 km) northwest of Arcadia, and 4.5 mi (7.2 km) north of Hope Valley.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--Discharge: January 1964 to current year.

Chemical analyses: Water years 1967-74 (partial-record station).

Water temperatures: Water years 1967-69, 1971-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m) from topographic map.

REMARKS.--Records excellent.

AVERAGE DISCHARGE.--11 years, 73.0 ft³/s (2.067 m³/s), 28.16 in/yr (715 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 896 ft³/s (25.4 m³/s) Mar. 18, 1968 (gage height, 8.64 ft or 2.633 m); minimum, about 5.8 ft³/s (0.16 m³/s) about Sept. 8, 9, 1964.

Current year: Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	2130	270 7.65	5.21 1.588	Apr. 4	0030	*300 8.50	*5.46 1.664

Minimum discharge, 9.5 ft³/s (0.27 m³/s) Aug. 23, Sept. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	35	34	87	123	155	109	79	47	38	19	16
2	44	35	119	90	114	139	102	83	47	37	18	15
3	34	33	155	85	106	125	177	85	43	35	17	13
4	28	32	147	81	99	115	288	80	54	32	16	12
5	24	31	123	76	99	106	261	86	52	31	16	11
6	21	33	101	70	101	101	215	80	83	30	16	11
7	20	33	90	85	97	98	178	76	109	28	35	11
8	18	31	105	93	93	102	153	71	87	31	38	11
9	17	24	203	138	91	96	136	68	77	28	40	11
10	16	21	175	178	87	90	125	65	68	28	30	9.5
11	16	20	151	168	86	90	118	63	58	28	24	9.5
12	15	20	129	174	82	91	112	60	54	45	21	13
13	15	24	113	185	85	109	105	65	96	65	20	31
14	15	25	102	231	81	105	100	67	168	60	18	22
15	15	24	93	204	79	105	96	61	138	54	16	17
16	49	22	96	171	79	101	93	80	118	52	15	21
17	103	22	181	145	79	103	89	85	102	47	16	26
18	89	21	159	141	82	100	86	76	92	44	15	29
19	78	21	141	203	86	98	86	70	83	40	14	21
20	64	26	125	196	93	191	83	64	78	37	13	18
21	51	54	113	172	92	223	79	59	70	36	12	20
22	44	42	107	154	91	216	75	54	63	36	13	23
23	38	36	99	139	105	177	70	53	59	31	12	33
24	34	35	94	130	154	148	79	53	56	28	12	100
25	33	35	96	145	251	143	100	51	54	29	14	133
26	33	40	93	195	263	131	113	49	48	52	14	107
27	32	69	86	175	217	118	106	48	43	44	13	125
28	30	57	81	157	174	108	99	49	40	30	12	109
29	28	47	78	150	---	101	91	46	40	26	11	87
30	27	40	77	148	---	112	85	43	38	23	23	71
31	31	---	78	133	---	118	---	47	---	20	21	---
TOTAL	1117	988	3545	4499	3189	3815	3609	2016	2165	1145	574	1136.0
MEAN	36.0	32.9	114	145	114	123	120	65.0	72.2	36.9	18.5	37.9
MAX	103	69	203	231	263	223	288	86	168	65	40	133
MIN	15	20	34	70	79	90	70	43	38	20	11	9.5
CFSM	1.02	.93	3.24	4.12	3.24	3.49	3.41	1.85	2.05	1.05	.53	1.08
IN.	1.18	1.04	3.75	4.75	3.37	4.03	3.81	2.13	2.29	1.21	.61	1.20

CAL YR 1974	TOTAL	27445.2	MEAN 75.2	MAX 328	MIN 8.2	CFSM 2.14	IN 29.00
WTR YR 1975	TOTAL	27798.0	MEAN 76.2	MAX 288	MIN 9.5	CFSM 2.16	IN 29.38

PAWCATUCK RIVER BASIN

01118000 WOOD RIVER AT HOPE VALLEY, R.I.

LOCATION.--Lat 42°29'53", long 71°43'01", Washington County, on right bank 0.2 mi (0.3 km) downstream from highway bridge at Hope Valley and 6.6 mi (10.6 km) upstream from mouth.

DRAINAGE AREA.--72.4 mi² (187.5 km²).

PERIOD OF RECORD.--Discharge: August to December 1909 (gage heights only), March 1941 to current year. Records of daily discharge for August to December 1909, published in WSP 261, have been found to be unreliable and should not be used.

Chemical analyses: Water years 1954, 1957-59, 1968 (partial-record station).

Water temperatures: Water years 1957-59, 1968 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 65 ft (20 m) from topographic map. August to December 1909, nonrecording gage at site 1,000 ft (300 m) upstream at different datum.

REVISIONS (WATER YEARS).--WSP 1201: 1948(P). See also PERIOD OF RECORD.

REMARKS.--Records excellent. Some seasonal regulation by Locustville Pond on Brushy Brook since 1968. Some regulation at low flow by mills and ponds above station until 1952; regulation greater prior to 1948.

AVERAGE DISCHARGE.--34 years, 150 ft³/s (4.248 m³/s), 28.14 in/yr (715 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,720 ft³/s (48.7 m³/s) Mar. 18, 1968 (gage height, 8.26 ft or 2.518 m), from rating curve extended above 970 ft³/s (27.5 m³/s); minimum, 4.4 ft³/s (0.12 m³/s) Oct. 18, 1941; minimum daily, 10 ft³/s (0.28 m³/s) Oct. 13, 1941.

Maximum stage since 1711, at least 12.4 ft (3.78 m) in February 1886. Flood of November 1927 reached a stage of 11.7 ft (3.57 m), and flood of March 1936 reached a discharge of 1,540 ft³/s (43.6 m³/s).

Current year: Peak discharges above base of 550 ft³/s (15.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	1830	581 16.5	4.52 1.378	Apr. 4	1230	*681 19.3	*4.93 1.503

Minimum discharge, 28 ft³/s (0.79 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	61	61	178	247	298	219	164	103	71	44	42
2	91	61	183	188	230	278	204	168	100	66	41	36
3	73	58	353	172	214	253	278	183	91	62	39	34
4	61	57	261	163	200	232	628	175	95	60	38	32
5	53	57	216	155	204	215	524	186	97	58	38	30
6	49	60	187	144	209	204	412	174	155	60	38	30
7	47	58	187	171	203	199	339	161	242	57	50	30
8	45	55	192	199	193	205	294	151	183	59	78	29
9	42	51	419	265	186	197	263	144	149	67	87	31
10	40	45	389	403	174	184	243	139	129	63	72	33
11	38	44	303	347	172	181	230	134	111	61	56	32
12	37	43	252	356	166	186	217	129	106	64	49	30
13	35	47	222	369	169	229	206	138	268	158	44	38
14	34	51	201	492	156	230	196	149	454	171	40	50
15	34	49	187	425	160	223	192	136	337	130	38	45
16	55	46	188	345	158	214	187	170	258	107	36	40
17	176	45	377	295	159	212	188	211	217	103	36	38
18	159	44	378	274	167	209	186	175	194	103	36	40
19	120	43	294	418	176	200	179	154	171	82	34	41
20	100	51	252	424	143	322	169	140	154	71	34	39
21	87	101	227	361	194	441	154	129	132	74	38	37
22	76	107	214	314	188	391	148	121	118	67	32	37
23	70	81	206	285	210	331	143	115	109	59	36	46
24	63	71	193	263	315	286	153	119	103	54	33	161
25	60	69	202	291	535	276	200	119	97	67	33	300
26	61	71	208	433	527	259	244	107	89	99	30	270
27	59	83	183	384	422	234	235	104	80	85	30	245
28	55	87	172	322	340	215	206	108	81	62	30	247
29	53	76	163	301	---	203	187	98	78	55	30	177
30	51	67	159	303	---	214	173	91	75	50	33	129
31	54	---	162	273	---	235	---	98	---	46	42	---
TOTAL	2106	1839	7176	9313	6477	7556	7197	4390	4576	2391	1295	2369
MEAN	67.9	61.3	231	300	231	244	240	142	153	77.1	41.8	79.0
MAX	176	107	419	492	535	441	628	211	454	171	87	300
MIN	34	43	61	144	158	181	143	91	75	46	30	29
CFSM	.94	.85	3.19	4.14	3.19	3.37	3.31	1.96	2.11	1.06	.58	1.09
IN.	1.08	.94	3.69	4.79	3.33	3.88	3.70	2.26	2.35	1.23	.67	1.22

CAL YR 1974	TOTAL	56593	MEAN 155	MAX 711	MIN 23	CFSM 2.14	IN 29.08
WTR YR 1975	TOTAL	56685	MEAN 155	MAX 628	MIN 29	CFSM 2.14	IN 29.13

01118500 PAWCATUCK RIVER AT WESTERLY, R.I.

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, on left bank at Westerly, 2.1 mi (3.4 km) downstream from Shunock River.

DRAINAGE AREA.--295 mi² (764 km²).

PERIOD OF RECORD.--Discharge: November 1940 to current year.
Chemical analyses: Water years 1953, 1963 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft (0.536 m) below mean sea level, datum of 1929.

REVISIONS.--WSP 1051: Drainage area.

REMARKS.--Records good. Diurnal fluctuation at low flow prior to 1962 by mills above station; regulation much greater prior to 1958. Diversion above station for municipal supply of Westerly.

AVERAGE DISCHARGE.--35 years, 560 ft³/s (15.86 m³/s), 25.78 in/yr (655 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 4,470 ft³/s (127 m³/s) Mar. 18, 1968 (gage height, 10.49 ft or 3.197 m); maximum gage height, 12.16 ft (3.706 m) Aug. 31, 1954 (backwater from tide); minimum daily discharge, 25 ft³/s (0.71 m³/s) Aug. 17, 1941.

Flood of March 1936 reached a discharge of 3,150 ft³/s (89.2 m³/s), by computation of flow over dam 1.5 mi (2.4 km) upstream from station. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that of March 1936. Maximum stage since at least 1635, 15.0 ft (4.57 m) Sept. 21, 1938 (due to hurricane tidal wave).

Current year: Maximum discharge, 1,760 ft³/s (49.8 m³/s) Feb. 25 (gage height, 6.26 ft or 1.908 m); maximum gage height, 7.51 ft (2.289 m) Dec. 2 (backwater from tide); minimum daily discharge, 95 ft³/s (2.69 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	174	225	557	970	1310	752	606	348	249	182	144
2	294	178	320	599	888	1180	715	585	348	235	167	130
3	244	174	578	585	812	1060	842	599	325	225	144	127
4	208	171	585	557	752	955	1490	599	315	221	155	120
5	195	167	515	536	738	872	1580	620	309	221	155	117
6	186	171	432	508	752	812	1480	613	407	221	144	113
7	174	174	382	550	760	775	1330	578	585	225	178	110
8	174	174	388	662	752	768	1160	529	592	225	216	107
9	171	171	700	445	722	745	1030	501	508	225	235	95
10	163	171	812	1160	685	708	925	473	426	216	221	98
11	167	167	745	1170	662	685	850	459	371	212	199	101
12	163	171	627	1150	585	700	798	445	342	249	178	101
13	171	174	557	1190	578	790	745	439	730	365	167	134
14	155	182	501	1440	606	828	708	466	1290	376	155	124
15	152	191	466	1440	592	835	678	466	1280	354	148	124
16	182	186	452	1320	599	842	655	522	1120	309	148	120
17	283	182	745	1170	599	812	641	678	948	283	148	113
18	320	182	895	1060	627	780	620	655	828	263	141	110
19	289	182	820	1250	662	760	620	585	708	263	144	110
20	244	186	715	1390	738	880	606	522	641	244	130	117
21	212	249	634	1350	745	1000	571	466	543	244	130	113
22	199	273	599	1230	738	1050	543	426	452	249	130	120
23	191	273	571	1130	775	1050	522	407	388	225	127	137
24	186	254	536	1040	1040	960	536	395	348	204	120	273
25	182	244	557	1040	1620	900	620	376	325	212	124	420
26	186	239	634	1300	1730	860	805	365	299	268	124	487
27	182	235	606	1340	1630	820	850	359	283	268	127	494
28	171	239	564	1250	1470	782	805	348	278	230	120	459
29	171	239	543	1170	---	745	738	336	278	199	117	388
30	167	230	508	1140	---	730	662	325	273	186	130	304
31	171	---	515	1070	---	768	---	320	---	178	152	---
TOTAL	6312	6003	17727	31799	23827	26762	24877	15063	15888	7644	4756	5510
MEAN	204	200	572	1026	851	863	829	486	530	247	153	184
MAX	359	273	895	1440	1730	1310	1580	678	1290	376	235	494
MIN	152	167	225	445	578	685	522	320	273	178	117	95
CFSM	.69	.68	1.94	3.48	2.88	2.93	2.81	1.65	1.80	.84	.52	.62
IN.	.80	.76	2.24	4.01	3.00	3.37	3.14	1.90	2.00	.96	.60	.69
CAL YR 1974	TOTAL	191015	MEAN 523	MAX 1750	MIN 120	CFSM 1.77	IN 24.09					
WTR YR 1975	TOTAL	186168	MEAN 510	MAX 1730	MIN 95	CFSM 1.73	IN 23.48					

01123360 QUINEBAUG RIVER BELOW EAST BRIMFIELD DAM, AT FISKDALE, MASS.

LOCATION.--Lat 42°06'31", long 72°07'27", Worcester County, on right bank at Fiskdale, 750 ft (230 m) downstream from East Brimfield Dam and 2.4 mi (3.9 km) upstream from Cedar Pond outlet.

DRAINAGE AREA.--67.5 mi² (174.8 km²).

PERIOD OF RECORD.--Discharge: October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (190 m) from topographic map.

REMARKS.--Records excellent. Flow regulated by East Brimfield Lake (see p. 148).

EXTREMES.--Period of record: Maximum discharge, 999 ft³/s (28.3 m³/s) Sept. 29, 1975 (gage height, 6.34 ft or 1.932 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 17, 1974.
 Maximum discharge since at least 1886, 15,400 ft³/s (436 m³/s) Aug. 19, 1955, by slope-area measurement.
 Flood of Mar. 18, 1936, reached a discharge of 2,390 ft³/s (67.7 m³/s) and flood of September 1938, 7,000 ft³/s (198 m³/s), both by computation of flow over dam.
 Current year: Maximum discharge, 999 ft³/s (28.3 m³/s) Sept. 29 (gage height, 6.34 ft or 1.932 m); minimum daily, 8.3 ft³/s (0.24 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	309	122	87	130	204	273	205	96	58	16	19	25		
2	265	124	113	130	141	235	190	93	62	15	17	25		
3	208	109	170	126	159	208	207	99	57	15	15	21		
4	160	102	186	120	141	183	386	101	60	14	13	18		
5	128	112	172	114	132	162	457	111	70	13	13	15		
6	108	130	152	105	131	150	404	118	99	12	13	14		
7	95	134	138	106	131	144	337	112	134	11	21	13		
8	82	124	156	105	128	145	283	105	140	11	42	12		
9	75	113	303	110	126	144	245	98	120	10	68	11		
10	73	105	429	120	122	136	219	92	96	11	75	10		
11	76	100	403	138	119	124	200	86	77	11	69	9.3		
12	102	95	338	211	116	114	185	82	70	14	54	11		
13	135	105	287	310	115	125	171	101	105	29	40	20		
14	144	110	251	365	109	143	159	159	135	73	29	25		
15	144	110	226	348	111	149	150	194	140	106	22	24		
16	174	102	212	295	108	144	143	189	122	105	18	20		
17	230	93	229	245	107	140	136	160	102	85	16	17		
18	248	91	256	209	110	140	130	135	87	63	15	15		
19	228	88	254	231	110	144	130	111	76	45	13	15		
20	201	88	232	270	115	302	130	104	63	37	11	15		
21	180	112	212	261	119	536	122	91	52	64	9.9	15		
22	167	139	193	236	118	524	111	82	44	95	9.5	16		
23	160	140	177	213	120	415	106	75	37	102	8.5	23		
24	152	124	166	192	167	334	110	69	32	86	8.3	67		
25	146	113	163	185	333	303	130	60	28	71	9.5	170		
26	146	109	160	227	431	285	143	53	24	59	10	240		
27	142	100	151	258	407	248	138	51	21	48	11	499		
28	131	95	142	245	327	217	128	49	20	39	9.9	741		
29	116	92	135	224	---	197	115	48	19	30	9.5	875		
30	98	90	131	228	---	194	105	45	18	24	16	690		
31	108	---	129	225	---	211	---	50	---	21	21	---		
TOTAL	4731	3271	6353	6282	4597	6764	5675	3019	2168	1335	706.1	3671.3		
MEAN	153	109	205	203	164	218	189	97.4	72.3	43.1	22.8	122		
MAX	309	140	429	365	431	536	457	194	140	106	75	875		
MIN	73	88	87	105	107	114	105	45	18	10	8.3	9.3		
MEAN†	148	109	206	205	167	216	187	96.2	70.3	43.7	22.8	140		
CFSM†	2.19	1.61	3.05	3.04	2.47	3.20	2.77	1.43	1.04	.65	.34	2.07		
IN.†	2.52	1.80	3.51	3.49	2.58	3.69	3.09	1.64	1.16	.75	.39	2.32		
CAL YR 1974	TOTAL	48932.2	MEAN	134	MAX	554	MIN	5.0	MEAN†	133	CFSM†	1.97	IN†	26.83
WTR YR 1975	TOTAL	48577.4	MEAN	133	MAX	875	MIN	8.3	MEAN†	134	CFSM†	1.99	IN†	26.94

† Adjusted for change in contents in East Brimfield Lake.

01123600 QUINEBAUG RIVER BELOW WESTVILLE DAM, NEAR SOUTHBRIDGE, MASS.

LOCATION.--Lat 42°04'58", long 72°03'27", Worcester County, on right bank 200 ft (60 m) downstream from Westville Dam, 1.0 mi (1.6 km) upstream from McKinstry Brook, and 1.3 mi (2.1 km) west of Southbridge.

DRAINAGE AREA.--99.1 mi² (256.7 km²).

PERIOD OF RECORD.--Discharge: October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 510 ft (155 m) from topographic map.

REVISIONS.--Revised adjusted monthly figures for some months in water years 1963 and 1964, superseding figures published in WSP 1901, are given herewith:

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches	Adjusted mean
March 1963.....	10,096	880	84	326	4.04	4.66	400
April.....	10,845	870	120	362	2.89	3.22	286
Water year 1962-63.....	52,210	880	12	143	1.44	19.52	143
Calendar year 1963.....	44,606	880	12	122	1.23	16.72	122
January 1964.....	5,819	524	65	188	1.96	2.26	194
Water year 1963-64.....	42,825	524	11	117	1.18	16.03	117
Calendar year 1964.....	39,601.7	524	7.3	108	1.10	15.00	109

REMARKS.--Records excellent. Flow regulated by mills, by East Brimfield and Westville Lakes (see p. 148), and by other reservoirs above station.

AVERAGE DISCHARGE.--13 years, 160 ft³/s (4,531 m³/s), 21.92 in/yr (557 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Sept. 29, 1975 (gage height, 6.35 ft or 1.935 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Nov. 21, 28, 1964, July 30, 1965.

Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Sept. 29 (gage height, 6.35 ft or 1.935 m); minimum daily, 14 ft³/s (0.40 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	165	117	185	293	391	286	146	72	26	28	33
2	350	162	207	189	255	342	265	140	76	24	25	33
3	277	144	272	180	224	301	308	142	71	23	23	31
4	204	137	280	171	203	252	667	146	92	22	21	27
5	198	150	253	165	194	237	626	158	93	20	20	23
6	154	181	229	152	195	221	555	158	154	19	20	21
7	125	181	209	146	184	210	466	147	182	18	33	20
8	109	175	240	154	183	215	401	136	180	17	58	19
9	98	159	492	155	179	211	341	124	156	17	83	19
10	92	149	536	184	176	200	315	117	119	17	86	19
11	92	142	529	189	168	186	274	111	101	17	80	18
12	108	135	458	289	168	176	256	107	95	24	67	18
13	145	152	392	372	167	195	238	135	150	46	52	31
14	154	159	349	490	159	212	222	194	179	83	41	34
15	158	158	315	587	157	221	210	231	180	130	32	35
16	230	142	280	453	154	211	202	228	158	122	28	32
17	335	127	343	376	152	206	191	201	141	101	25	28
18	342	124	363	330	156	204	181	172	122	70	24	26
19	306	119	355	337	163	199	177	143	99	57	22	24
20	253	116	323	381	168	589	178	127	84	48	19	24
21	225	167	290	398	169	830	166	115	68	98	17	25
22	206	201	268	369	166	849	149	105	59	114	16	37
23	199	194	245	330	174	619	141	94	51	120	15	73
24	185	177	234	291	329	447	149	87	47	102	14	135
25	180	167	230	264	568	430	176	75	43	88	15	286
26	186	157	230	306	616	437	192	69	37	78	17	346
27	140	143	218	367	545	380	184	65	33	62	18	696
28	167	136	204	362	436	316	169	64	31	51	18	1050
29	150	129	193	330	---	281	155	62	30	43	18	1140
30	130	122	186	339	---	288	147	58	28	36	27	1090
31	153	---	183	331	---	306	---	65	---	31	32	---
TOTAL	6100	4572	9024	9172	6710	10162	7987	3922	2931	1724	994	5393
MEAN	197	152	291	296	240	328	266	127	97.7	55.6	32.1	180
MAX	405	201	536	587	616	849	667	231	182	130	86	1140
MIN	92	118	117	146	152	176	141	58	28	17	14	18
MEAN†	190	152	292	298	242	325	263	125	95.7	56.3	32.1	201
CFSM†	1.92	1.53	2.95	3.01	2.44	3.28	2.65	1.26	.97	.57	.32	2.03
INF†	2.21	1.71	3.40	3.47	2.55	3.79	2.96	1.45	1.08	.65	.37	2.26
CAL YR 1974 TOTAL	69214.3											
MEAN 190												
MAX 981												
MIN 8.3												
MEAN† 188												
CFSM† 1.90												
INF† 25.70												
WTR YR 1975 TOTAL	68691.0											
MEAN 188												
MAX 1140												
MIN 14												
MEAN† 189												
CFSM† 1.91												
INF† 25.91												

† Adjusted for change in contents in East Brimfield and Westville Lakes.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975[illegible]

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975[illegible]

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft (152 m) upstream from bridge on State Highway 197, 0.2 mi (0.3 km) downstream from Massachusetts-Connecticut State line, 7.8 mi (12.6 km) upstream from French River, and at mile 46 (74 km).

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--Discharge: September 1931 to current year.

Chemical analyses: September 1952, March 1953, October 1959 to September 1960, January 1962 to November 1963, January to April 1969.

Water temperatures: October 1959 to September 1960.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 851: 1936(M), WSP 1201: 1939-43, 1947, 1949. WSP 1381: 1938(M).

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes (see p. 148), and by smaller reservoirs upstream.

AVERAGE DISCHARGE.--44 years, 267 ft³/s (7.561 m³/s), 23.26 in/yr (591 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 49,300 ft³/s (1,400 m³/s) Aug. 19, 1955 (gage height, 18.96 ft or 5.779 m, from floodmarks), from rating curve extended above 5,100 ft³/s (144 m³/s) on basis of slope-area measurement of peak flow; minimum, about 1 ft³/s (0.028 m³/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, Oct. 29, 1956; minimum daily, about 1 ft³/s (0.028 m³/s) Sept. 4, 1956.
Current year: Maximum discharge, 1,850 ft³/s (52.4 m³/s) Mar. 20 (gage height, 5.26 ft or 1.603 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	657	297	181	285	432	609	441	204	93	38	36	40
2	525	278	530	278	379	524	406	204	98	35	33	40
3	416	245	643	257	338	457	773	211	90	33	29	38
4	317	241	538	247	303	389	1130	215	168	32	29	33
5	292	276	438	230	278	357	982	234	143	29	27	28
6	242	335	376	211	286	332	848	226	272	28	28	25
7	198	313	338	224	275	321	702	211	281	25	48	24
8	170	294	460	224	265	342	606	193	254	28	82	23
9	146	257	991	274	255	315	513	176	215	24	110	27
10	134	237	881	315	245	289	467	168	172	27	107	23
11	126	225	784	392	240	278	416	153	137	25	98	21
12	138	213	677	691	235	270	384	161	150	50	80	32
13	175	264	576	875	230	316	354	238	276	73	65	43
14	192	266	511	973	225	329	326	295	290	107	52	41
15	192	255	454	836	220	332	309	313	263	150	41	41
16	437	230	417	641	217	318	295	313	222	143	35	40
17	635	208	604	553	216	323	272	272	193	121	32	35
18	548	198	593	553	224	320	259	230	172	87	31	31
19	466	190	536	691	239	336	259	197	137	73	27	29
20	388	197	482	668	255	1340	259	176	116	63	24	31
21	337	331	434	606	252	1270	234	161	93	146	22	32
22	306	359	406	527	245	1080	215	153	80	150	21	36
23	292	319	376	462	266	831	204	133	69	146	17	95
24	271	287	355	415	593	661	234	119	63	124	19	204
25	263	272	355	462	1130	665	272	104	58	116	21	461
26	268	259	341	658	1060	671	295	93	50	98	20	507
27	255	230	316	599	867	565	272	87	46	78	21	1010
28	236	215	297	531	693	475	246	85	45	67	20	1110
29	214	206	280	507	---	430	222	80	45	56	20	1060
30	195	194	275	562	---	475	207	75	41	48	52	1010
31	294	---	270	492	---	482	---	87	---	41	43	---
TOTAL	9325	7691	14715	15239	10463	15702	12402	5567	4332	2261	1290	6170
MEAN	301	256	475	492	374	507	413	180	144	72.9	41.6	206
MAX	657	359	991	973	1130	1340	1130	313	290	150	110	1110
MIN	126	190	181	211	216	270	204	75	41	24	17	21
MEAN†	304	256	476	494	377	504	410	178	142	73.5	41.6	727
CFSM†	1.95	1.64	3.05	3.17	2.42	3.23	2.63	1.14	0.91	0.47	0.27	1.46
IN.†	2.25	1.83	3.52	3.66	2.52	3.72	2.93	1.31	1.02	0.54	0.31	1.63
CAL YR 1974 TOTAL	108519.2		MEAN 297	MAX 1240	MIN	6.8	MEAN† 295	CFSM† 1.89	IN† 25.79			
WTR YR 1975 TOTAL	105157.0		MEAN 288	MAX 1340	MIN	17	MEAN† 289	CFSM† 1.85	IN† 25.24			

† Adjusted for change in contents in East Brimfield and Westville Lakes.

01124350 FRENCH RIVER BELOW HODGES VILLAGE DAM, AT HODGES VILLAGE, MASS.

LOCATION.--Lat 42°07'06", long 71°52'54", Worcester County, on right bank at Hodges Village, 240 ft (73 m) downstream from Hodges Village Dam, 0.8 mi (1.3 km) west of Oxford, and 1.2 mi (1.9 km) upstream from Little River.

DRAINAGE AREA.--31.0 mi² (80.3 km²).

PERIOD OF RECORD.--Discharge: March 1962 to current year.

Chemical analyses: Water year 1962 (partial-record station).

Water temperatures: Water year 1962 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 480 ft (146 m) from topographic map.

REMARKS.--Records good. Flow regulated by Hodges Village Reservoir (see p. 148).

AVERAGE DISCHARGE.--13 years, 52.1 ft³/s (1.475 m³/s), 22.82 in/yr (580 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 496 ft³/s (14.0 m³/s) Mar. 20, 1972 (gage height, 3.19 ft or 0.972 m); maximum gage height, 3.24 ft (0.988 m) Mar. 28, 1963; no flow for part of July 17, 1968 (caused by unusual regulation); minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Aug. 7, 1963.
Current year: Maximum discharge, 351 ft³/s (9.94 m³/s) Mar. 21 (gage height, 2.85 ft or 0.869 m); minimum, 0.40 ft³/s (0.011 m³/s) Sept. 15; minimum daily, 2.2 ft³/s (0.062 m³/s) July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	57	38	67	93	125	74	31	15	6.3	4.6	9.6
2	163	54	72	67	80	111	65	35	12	5.5	4.6	7.1
3	139	50	197	63	73	101	73	39	11	5.8	4.1	6.1
4	84	49	172	61	68	92	221	41	20	5.8	3.7	5.8
5	70	56	119	59	62	84	257	45	22	5.3	3.7	5.3
6	65	71	95	56	66	57	185	47	33	4.3	3.7	4.8
7	62	71	59	58	64	42	132	44	51	3.0	6.1	4.3
8	55	66	56	58	62	40	101	40	48	2.5	16	4.1
9	43	60	171	62	61	36	88	36	41	2.3	25	3.9
10	37	54	212	70	58	39	77	33	35	2.2	19	4.6
11	34	50	148	74	57	37	70	30	28	4.8	12	18
12	31	46	105	131	53	40	64	29	26	4.3	9.3	27
13	25	50	88	174	54	46	60	48	63	19	7.3	37
14	29	59	78	217	54	58	56	73	88	19	6.8	35
15	31	59	72	172	53	57	52	77	78	19	6.1	34
16	51	62	67	125	55	52	64	67	61	14	5.3	41
17	123	78	91	103	53	51	43	61	48	11	5.1	28
18	126	80	121	85	53	57	53	50	40	8.4	4.6	18
19	93	79	119	129	56	62	36	41	32	6.3	4.1	15
20	73	78	104	143	61	152	42	36	26	5.3	3.7	21
21	61	94	93	123	59	321	43	30	20	12	3.5	27
22	54	116	87	103	57	236	47	27	16	22	3.3	28
23	50	105	84	92	60	140	36	25	15	14	3.1	35
24	47	90	80	85	96	102	39	22	14	10	3.0	62
25	44	83	79	85	232	108	50	20	14	9.0	3.5	108
26	44	75	78	127	288	115	51	18	13	9.7	3.9	130
27	44	53	71	136	226	91	50	16	12	9.0	3.7	155
28	40	45	70	112	159	76	55	16	11	7.3	3.5	236
29	39	44	68	96	---	66	46	15	8.4	6.3	3.5	165
30	39	40	67	112	---	68	32	14	6.8	5.8	6.8	115
31	48	---	67	110	---	80	---	14	---	5.1	14	---
TOTAL	2027	1974	3028	3155	2413	2742	2262	1120	908.2	269.3	206.6	1390.6
MEAN	65.4	65.8	97.7	102	86.2	88.5	75.4	36.1	30.3	8.69	6.66	46.4
MAX	183	116	212	217	288	321	257	77	88	22	25	236
MIN	25	40	38	56	53	36	32	14	6.8	2.2	3.0	3.9
MEAN†	62.5	65.6	97.8	102	86.4	88.2	75.2	36.1	30.2	8.65	6.74	46.9
CFSM†	2.02	2.12	3.15	3.29	2.79	2.85	2.43	1.16	.97	.28	.22	1.51
IN.†	2.32	2.36	3.64	3.79	2.90	3.28	2.71	1.34	1.09	.32	.25	1.69

CAL YR 1974	TOTAL	24082.9	MEAN	66.0	MAX	310	MIN	5.8	MEAN†	65.7	CFSM†	2.12	IN†	28.76
WTR YR 1975	TOTAL	21495.7	MEAN	58.9	MAX	321	MIN	2.2	MEAN†	58.7	CFSM†	1.89	IN†	25.70

† Adjusted for change in contents in Hodges Village Reservoir.

01124500 LITTLE RIVER AT BUFFUMVILLE, MASS.

LOCATION.--Lat 42°06'57", long 71°53'26", Worcester County, on left bank 0.6 mi (1.0 km) upstream from mouth, 0.8 mi (1.3 km) east of Buffumville, 1.1 mi (1.8 km) downstream from Buffumville Dam, and 1.5 mi (2.4 km) west of Oxford.

DRAINAGE AREA.--27.7 mi² (71.7 km²).

PERIOD OF RECORD.--Discharge: July 1939 to current year.

Chemical analyses: Water year 1973 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 457.00 ft (139.294 m) above mean sea level, unadjusted (levels by Corps of Engineers).

REVISIONS (WATER YEARS).--WSP 1201: 1940, 1948.

REMARKS.--Records excellent. Flow regulated by Buffumville Lake since 1958 (see p. 148) and by other reservoirs upstream. Prior to 1958, flow regulated by mill above station.

AVERAGE DISCHARGE.--36 years, 46.9 ft³/s (1.328 m³/s), 22.99 in/yr (584 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 8,340 ft³/s (236 m³/s) Aug. 19, 1955 (gage height, 15.53 ft or 4.734 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of computation of peak flow over dam; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 25, 26, 1957. Maximum discharge since construction of Buffumville Dam in 1958, 429 ft³/s (12.1 m³/s) Apr. 7, 1959 (gage height, 5.04 ft or 1.536 m).
Current year: Maximum discharge, 284 ft³/s (8.04 m³/s) Apr. 4 (gage height, 4.45 ft or 1.356 m); minimum, 2.2 ft³/s (0.062 m³/s) Sept. 14, 15-17, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	42.7	42	50	41	42	49	37	14	7.6	4.7	4.2
2	114	42.7	42	51	76	47	112	36	14	7.6	4.5	4.2
3	77	42.5	145	48	64	90	80	38	16	7.3	4.0	4.2
4	52	42.7	145	45	55	74	210	34	29	6.8	4.0	4.0
5	32	11	136	42	51	70	278	41	31	6.4	4.6	3.8
6	33	11	103	39	51	63	157	41	34	6.0	4.6	4.2
7	24	10	81	41	49	54	41	40	38	5.6	5.5	4.2
8	25	16	80	41	47	61	103	37	38	5.3	6.5	4.2
9	22	24	142	46	45	60	97	34	36	5.0	6.3	4.4
10	20	33	146	52	44	57	87	32	33	4.9	6.0	4.0
11	18	33	163	61	42	54	78	30	29	4.6	5.8	4.2
12	17	32	149	46	43	52	71	30	28	5.9	5.5	3.8
13	17	34	106	148	43	56	65	41	43	6.3	5.3	2.5
14	16	37	90	201	41	62	61	53	61	6.6	5.1	2.3
15	15	34	72	189	34	67	57	58	63	6.5	4.7	2.3
16	32	38	73	127	38	64	54	56	54	6.5	4.7	2.2
17	112	36	41	45	37	63	51	51	45	6.4	4.6	2.3
18	94	34	112	87	38	64	50	45	37	6.3	4.4	2.2
19	60	32	113	103	40	68	44	39	32	6.0	4.4	5.1
20	60	31	98	122	43	153	47	34	28	7.0	4.2	28
21	92	43	85	118	45	218	44	32	23	9.8	4.2	37
22	149	60	75	104	45	197	40	30	19	8.4	4.4	43
23	137	65	69	40	46	202	37	27	17	8.1	4.2	52
24	44	60	65	78	72	170	39	22	14	7.2	4.6	60
25	39	53	65	76	206	145	46	19	12	7.6	4.7	75
26	26	50	64	103	260	108	52	17	11	7.3	4.6	89
27	26	45	59	121	214	80	52	16	9.6	6.8	4.4	144
28	26	34	54	114	138	85	49	15	9.2	6.4	4.0	183
29	26	36	51	101	---	80	44	15	8.8	5.9	4.0	130
30	26	34	49	102	---	81	40	14	8.1	5.4	6.8	87
31	26	---	48	102	---	86	---	14	---	5.0	4.6	---
TOTAL	1667	977.6	2872	2793	2003	2883	2340	1033	834.7	202.5	149.9	996.3
MEAN	53.8	32.6	92.6	90.1	71.5	93.0	78.0	33.3	27.8	6.53	4.84	33.2
MAX	149	65	186	201	260	218	278	58	63	9.8	6.8	183
MIN	16	8.5	32	39	37	52	37	14	8.1	4.6	4.0	2.2
MEAN†	40.6	41.2	93.6	91.5	71.5	92.6	76.0	33.6	25.5	6.20	3.53	36.9
CFSM†	1.47	1.49	3.38	3.30	2.58	3.34	2.74	1.21	.92	.22	.13	1.33
IN.†	1.69	1.66	3.90	3.81	2.69	3.86	3.06	1.40	1.03	.26	.15	1.49
CAL YR 1974 TOTAL	21050.6											
WTR YR 1975 TOTAL	18752.0											
MEAN 57.7												
MAX 350												
MIN 2.3												
MEAN† 55.9												
MEAN† 51.0												
CFSM† 2.02												
CFSM† 1.84												
IN† 27.43												
IN† 24.98												

† Adjusted for change in contents in Buffumville Lake.

01124750 BROWNS BROOK NEAR WEBSTER, MASS.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, on left bank 15 ft (5 m) downstream from culvert on State Highway 16 and 1.8 mi (2.9 km) east of Webster.

DRAINAGE AREA.--0.49 mi² (1.27 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (192 m) from topographic map.

REMARKS.--Records good. Recording rain gage at station April 1963 to December 1974 (no winter records).

AVERAGE DISCHARGE.--12 years (1963-75), 1.09 ft³/s (0.031 m³/s), 30.21 in/yr (767 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 125 ft³/s (3.54 m³/s) Mar. 18, 1968 (gage height, 2.46 ft or 0.750 m); no flow at times during water years 1963-65, 1968-71, 1974-75.

Current year: Peak discharge above base of 5.0 ft³/s (0.14 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 2	1045	6.3 0.18	1.77 0.539	Jan. 18	2200	5.6 0.16	1.75 0.533
Dec. 9	0130	*11 0.31	*1.87 0.570	Feb. 25	1600	6.3 0.18	1.77 0.539
Jan. 13	1515	8.5 0.24	1.82 0.555	Apr. 3	1745	5.2 0.15	1.75 0.533

No flow Aug. 23, 24, Sept. 5-8, 11, 16-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.8	1.3	1.1	1.8	3.0	1.6	.85	.85	.40	.08	.03
2	.89	1.6	3.6	1.1	1.8	2.6	1.6	.85	.76	.35	.08	.02
3	.89	1.6	3.6	1.1	1.6	2.4	2.8	.85	.59	.31	.07	.02
4	.53	1.6	3.2	1.1	1.6	2.0	3.4	.85	.95	.31	.07	.02
5	.53	1.8	3.2	.99	1.4	1.8	2.8	.85	.67	.31	.08	0
6	.53	2.0	3.0	.99	1.2	1.6	2.8	.85	1.5	.31	.06	0
7	.53	2.0	2.8	.89	1.2	1.6	2.6	.85	1.1	.23	.10	0
8	.53	1.8	3.6	.89	1.2	1.6	2.2	.85	.85	.23	.20	0
9	.53	1.8	6.7	.99	1.2	1.4	2.2	.85	.85	.20	.27	.01
10	.53	1.6	4.8	1.1	1.1	1.3	1.8	.76	.85	.20	.09	.02
11	.53	1.6	3.6	1.6	1.1	1.2	1.8	.76	.76	.20	.08	0
12	.53	1.6	3.4	4.8	1.1	1.2	1.6	.76	.76	.46	.07	.07
13	.53	1.6	3.0	6.3	.99	1.2	1.6	.95	1.5	.52	.06	.14
14	.53	1.6	2.8	5.9	.89	1.2	1.4	.95	1.5	.59	.06	.08
15	.53	1.6	2.4	4.8	.89	1.2	1.2	.85	1.3	.40	.06	.05
16	2.2	1.6	2.2	3.6	.79	1.1	1.2	.85	1.1	.27	.06	0
17	2.4	1.4	2.8	3.2	.79	1.1	1.2	.85	1.1	.20	.06	0
18	1.8	1.4	2.8	3.2	.79	1.1	1.1	.85	1.1	.20	.06	0
19	1.8	1.4	2.2	4.4	.79	1.1	1.1	.85	1.1	.20	.05	0
20	1.8	1.3	2.2	3.4	.79	3.0	1.1	.85	.95	.17	.03	0
21	1.8	2.0	2.0	3.2	.79	2.8	.95	.85	.85	.85	.03	0
22	1.8	2.0	2.0	3.0	.79	2.4	.95	.95	.76	.35	.03	0
23	1.6	1.8	2.0	2.8	.79	2.4	.95	.95	.67	.23	0	.09
24	1.6	1.8	1.8	2.4	2.2	2.4	.95	.85	.52	.14	0	.29
25	1.4	1.8	1.8	2.6	5.2	2.4	.95	.76	.52	.17	.02	.39
26	1.4	1.6	1.4	3.4	4.8	2.2	.95	.76	.52	.20	.02	.14
27	1.4	1.6	1.3	2.8	3.6	2.0	.95	.85	.46	.17	.02	.59
28	1.3	1.6	1.3	2.5	3.2	1.8	.95	.95	.46	.12	.01	.50
29	1.3	1.6	1.3	2.8	---	1.6	.95	.76	.46	.10	.01	.15
30	1.3	1.4	1.2	2.6	---	1.8	.85	.67	.40	.09	.09	.15
31	2.2	---	1.2	2.0	---	2.0	---	.95	---	.09	.07	---
TOTAL	36.23	49.9	80.5	81.55	44.39	56.5	46.50	26.23	25.76	8.57	1.99	2.76
MEAN	1.17	1.66	2.60	2.63	1.59	1.82	1.55	.85	.86	.28	.064	.092
MAX	2.4	2.0	6.7	6.3	5.2	3.0	3.4	.95	1.5	.85	.27	.59
MIN	.53	1.3	1.2	.89	.79	1.1	.85	.67	.40	.09	0	0
CFSM	2.39	3.39	5.31	5.37	3.24	3.71	3.16	1.73	1.76	.57	.13	.19
IN.	2.74	3.78	6.10	6.18	3.36	4.28	3.52	1.99	1.95	.65	.15	.21

CAL YR 1974 TOTAL 494.21 MEAN 1.35 MAX 9.3 MIN 0 CFSM 2.76 IN 37.44
WTR YR 1975 TOTAL 460.88 MEAN 1.26 MAX 6.7 MIN 0 CFSM 2.57 IN 34.92

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: November 1971 to current year.

WATER TEMPERATURES: November 1971 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

REMARKS.--Interruptions in the records were due to malfunctions of the instrument.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 188 micromhos Jan. 19, 1974; minimum, 30 micromhos on several days during August 1974.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 2, 3, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, 167 micromhos Feb. 19; minimum recorded, 43 micromhos Dec. 4-6.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 2, 3; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	57	55	56	49	48	48	48	46	48	---	---	---
2	57	56	56	48	46	47	57	47	51	---	---	---
3	57	55	56	47	46	47	47	45	46	---	---	---
4	57	55	56	48	46	47	45	43	44	---	---	---
5	57	55	56	47	45	46	46	43	44	---	---	---
6	57	55	56	47	45	46	46	43	45	---	---	---
7	57	55	56	46	45	46	46	44	45	---	---	---
8	57	55	56	46	45	45	47	44	46	---	---	---
9	56	54	55	47	45	46	45	44	45	---	---	---
10	57	54	56	47	45	46	45	45	45	---	---	---
11	56	54	56	48	45	46	45	45	45	---	---	---
12	56	54	56	47	46	46	46	45	45	---	---	---
13	56	54	55	47	45	46	46	45	46	---	---	---
14	56	53	55	47	45	46	46	46	46	---	---	---
15	56	55	55	46	46	46	46	46	46	58	57	57
16	56	48	51	47	45	46	55	46	47	58	56	57
17	51	48	50	47	45	46	56	54	55	57	55	56
18	49	48	49	47	45	47	56	55	56	68	56	59
19	49	48	49	48	46	47	56	52	55	58	57	57
20	49	47	48	48	46	47	56	55	55	60	56	58
21	48	47	48	47	46	46	55	54	55	57	56	56
22	49	47	47	47	46	46	55	53	54	57	56	56
23	48	47	47	47	45	46	54	53	54	57	55	56
24	48	47	47	47	45	46	54	53	54	57	55	56
25	48	47	48	47	46	46	54	53	53	60	55	58
26	48	47	47	71	46	53	59	52	55	59	58	58
27	48	46	47	53	48	50	60	57	58	59	57	58
28	48	46	47	49	46	48	64	59	63	59	57	57
29	49	46	48	50	47	48	64	63	63	62	57	58
30	48	47	48	50	47	49	---	---	---	59	56	57
31	48	45	48	---	---	---	---	---	---	58	55	57
MONTH	57	45	52	71	45	47	64	43	50	---	---	---

THAMES RIVER BASIN

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	58	56	57	---	---	---	---	---	---	62	58	59
2	---	---	---	---	---	---	---	---	---	59	58	58
3	---	---	---	---	---	---	---	---	---	61	57	59
4	---	---	---	---	---	---	---	---	---	60	58	59
5	---	---	---	---	---	---	---	---	---	59	56	58
6	---	---	---	---	---	---	---	---	---	57	56	56
7	---	---	---	---	---	---	---	---	---	57	56	57
8	---	---	---	---	---	---	---	---	---	58	55	57
9	---	---	---	---	---	---	---	---	---	58	56	57
10	---	---	---	---	---	---	---	---	---	58	56	57
11	56	53	54	---	---	---	---	---	---	58	57	57
12	61	51	53	---	---	---	---	---	---	58	57	58
13	53	53	53	---	---	---	---	---	---	59	57	58
14	51	49	50	60	59	59	---	---	---	59	57	58
15	52	48	50	67	59	62	62	57	60	63	58	59
16	53	49	51	65	59	62	62	58	59	59	58	59
17	69	51	54	65	61	64	62	57	59	59	58	58
18	142	52	71	66	62	64	62	58	60	60	58	59
19	167	56	87	74	63	65	63	59	61	61	58	59
20	92	72	79	74	67	69	62	59	60	63	58	59
21	85	74	78	68	65	67	62	57	59	60	58	59
22	95	73	81	65	63	64	59	56	58	59	58	59
23	84	77	80	65	63	64	61	57	59	61	58	59
24	88	70	81	63	61	62	62	58	59	60	59	59
25	68	57	62	63	62	63	62	58	60	60	59	59
26	57	55	56	64	59	62	62	58	60	63	59	60
27	---	---	---	61	58	60	60	58	59	61	60	61
28	---	---	---	62	58	60	60	57	59	62	58	59
29	---	---	---	62	58	60	61	57	59	60	58	59
30	---	---	---	61	59	60	62	57	59	60	58	59
31	---	---	---	61	59	60	---	---	---	60	58	59
MONTH	---	---	---	---	---	---	---	---	---	63	55	58
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	60	58	59	64	57	60	76	65	72	---	---	---
2	59	58	58	64	57	61	81	76	78	69	53	64
3	59	57	58	66	60	63	81	79	80	70	68	69
4	65	57	58	66	59	63	80	77	78	73	69	71
5	58	57	58	66	60	63	77	69	74	75	67	71
6	59	55	58	68	60	64	76	74	75	79	69	77
7	65	58	60	67	62	65	75	66	69	79	64	74
8	59	58	58	68	63	65	71	65	67	79	62	72
9	65	58	58	68	65	66	75	65	68	75	60	71
10	58	57	58	69	66	67	69	64	66	73	61	66
11	58	57	58	68	67	68	73	60	69	66	54	62
12	58	57	58	68	61	65	72	65	70	72	53	64
13	---	---	---	66	62	63	76	72	75	66	60	62
14	---	---	---	67	58	63	77	75	76	---	---	---
15	---	---	---	68	62	64	78	76	77	---	---	---
16	64	56	59	68	64	66	78	76	77	61	58	60
17	63	56	58	69	65	67	77	75	76	67	61	64
18	64	57	61	71	67	68	79	76	77	69	67	68
19	64	57	61	69	68	69	80	74	77	69	68	69
20	64	57	60	70	61	68	78	74	76	71	69	70
21	63	55	59	69	62	65	77	63	72	72	69	70
22	64	55	59	71	64	67	81	62	74	69	67	68
23	64	57	61	71	65	68	---	---	---	69	59	64
24	67	59	63	73	67	70	80	61	75	66	63	64
25	66	59	62	74	68	70	80	77	78	72	65	68
26	66	58	60	73	66	69	77	76	76	74	68	70
27	64	56	59	74	65	70	77	75	76	75	69	71
28	64	58	61	71	61	66	78	63	77	72	68	70
29	66	59	62	74	59	67	73	62	69	73	67	69
30	65	57	61	72	59	65	75	61	68	73	68	70
31	---	---	---	71	60	66	72	60	67	---	---	---
MONTH	67	55	59	74	57	66	81	60	74	79	53	68
YEAR	167	43	60									

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.5	12.0	13.0	11.0	12.0	5.0	3.5	4.0	---	---	---
2	12.0	11.0	11.5	12.0	10.0	11.0	6.0	3.0	5.0	---	---	---
3	11.5	9.5	11.0	12.0	9.5	11.0	6.0	4.5	5.5	---	---	---
4	11.0	9.0	10.0	12.5	11.0	11.5	5.0	3.5	4.5	---	---	---
5	11.5	9.0	10.5	12.0	11.5	11.5	4.0	2.5	3.5	---	---	---
6	12.5	10.0	11.5	12.0	11.0	11.5	4.0	2.5	3.0	---	---	---
7	13.5	11.0	12.0	11.0	10.5	10.5	4.0	2.5	3.5	---	---	---
8	12.0	9.5	11.0	11.5	10.0	10.5	6.0	3.5	4.5	---	---	---
9	11.0	9.5	10.5	11.5	8.5	10.0	7.0	5.0	6.5	---	---	---
10	11.5	10.0	10.5	10.0	8.0	9.0	5.0	3.5	4.0	---	---	---
11	11.5	9.5	10.5	10.0	8.0	9.0	5.0	3.0	3.5	---	---	---
12	12.0	10.0	11.0	10.5	8.5	9.5	4.5	3.0	4.0	---	---	---
13	12.5	10.0	11.5	11.0	9.5	10.0	4.5	3.0	4.0	---	---	---
14	12.0	9.5	11.0	10.0	9.0	9.5	5.0	3.5	4.5	---	---	---
15	13.0	11.0	12.0	9.5	7.5	8.5	4.5	3.5	4.0	1.0	0.5	1.0
16	12.0	11.0	11.5	8.5	7.0	8.0	4.0	2.0	3.0	1.0	0.0	0.5
17	12.0	10.5	11.5	7.5	6.0	7.0	6.0	3.5	4.5	1.0	0.0	0.5
18	11.5	9.0	10.5	8.0	6.5	7.0	3.5	2.5	3.0	1.0	0.0	0.0
19	10.0	9.0	9.5	8.0	6.5	7.0	2.5	1.0	2.0	1.5	0.5	1.0
20	10.0	9.0	9.5	8.5	6.5	7.5	2.0	1.5	2.0	1.5	0.5	1.0
21	11.5	9.5	10.5	8.0	6.5	7.5	1.5	1.0	1.5	1.0	0.0	0.5
22	11.0	9.0	10.0	7.5	5.5	6.0	6.0	1.0	2.5	1.5	0.5	1.0
23	10.5	8.5	10.0	6.5	5.0	5.5	5.5	3.0	4.0	1.5	0.5	1.0
24	10.0	8.5	9.5	7.5	5.0	7.0	3.5	2.0	2.5	1.5	0.5	1.0
25	11.0	9.5	10.0	7.5	5.5	6.5	3.0	2.0	2.5	1.5	1.0	1.5
26	10.5	9.5	10.0	6.0	4.0	5.5	3.0	1.5	2.5	2.0	1.0	1.5
27	11.5	9.5	10.5	5.5	3.5	4.5	2.5	1.5	2.0	2.5	1.0	2.0
28	11.0	9.0	10.0	5.5	4.5	5.0	3.0	2.0	2.5	2.5	1.5	2.0
29	11.0	9.0	10.5	6.5	5.0	5.5	3.0	2.5	3.0	3.0	2.0	2.5
30	11.0	10.0	10.5	6.0	3.5	4.5	---	---	---	3.0	1.5	2.0
31	12.0	11.0	11.5	---	---	---	---	---	---	2.0	0.5	1.0
MONTH	13.5	8.5	10.5	13.0	3.5	8.5	7.0	1.0	3.5	---	---	---
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.5	---	---	---	---	---	---	10.5	7.0	8.5
2	---	---	---	---	---	---	---	---	---	8.5	7.5	8.0
3	---	---	---	---	---	---	---	---	---	12.0	8.0	9.5
4	---	---	---	---	---	---	---	---	---	9.0	8.0	8.5
5	---	---	---	---	---	---	---	---	---	8.0	7.0	7.5
6	---	---	---	---	---	---	---	---	---	11.0	6.5	8.5
7	---	---	---	---	---	---	---	---	---	12.0	7.5	9.0
8	---	---	---	---	---	---	---	---	---	11.5	7.5	9.0
9	---	---	---	---	---	---	---	---	---	12.5	7.5	9.5
10	---	---	---	---	---	---	---	---	---	12.5	8.0	9.5
11	0.5	0.0	0.0	---	---	---	---	---	---	13.5	7.5	10.0
12	0.0	0.0	0.0	---	---	---	---	---	---	13.0	8.5	10.5
13	0.0	0.0	0.0	---	---	---	---	---	---	13.0	10.0	11.0
14	0.5	0.0	0.0	2.5	1.5	2.0	---	---	---	14.0	10.0	11.5
15	0.5	0.0	0.0	4.0	1.0	2.5	7.0	4.5	6.0	14.0	9.5	11.5
16	1.0	0.0	0.5	4.0	1.0	2.5	8.0	5.0	6.0	13.0	10.5	11.5
17	2.0	0.0	1.0	4.5	2.0	3.0	9.0	5.0	6.5	13.0	10.0	11.5
18	1.0	0.5	1.0	5.5	3.0	4.0	8.0	4.5	6.0	13.0	10.0	11.5
19	2.5	1.0	1.5	5.0	3.0	4.0	8.0	6.0	7.0	13.5	10.5	12.0
20	3.5	1.5	2.0	5.5	4.0	5.0	8.5	6.0	7.0	14.0	11.0	12.5
21	3.0	1.0	1.5	5.0	3.0	4.0	8.0	5.0	6.0	14.5	12.0	13.0
22	3.5	1.0	2.0	3.0	2.0	2.5	9.0	4.0	6.0	13.0	11.5	12.0
23	2.5	1.5	2.0	4.0	2.0	3.5	9.5	4.5	7.0	14.0	11.5	12.5
24	2.5	1.5	2.0	4.0	2.5	3.0	8.0	6.5	7.0	14.0	12.5	13.0
25	2.5	1.5	2.0	4.0	2.5	3.5	9.5	7.0	8.0	12.5	11.5	12.0
26	2.5	1.5	2.0	4.5	1.0	3.0	10.5	7.0	8.0	13.5	10.5	11.5
27	---	---	---	6.0	1.0	2.5	8.5	6.0	7.0	13.0	11.5	12.0
28	---	---	---	7.0	4.5	5.5	9.5	5.5	7.5	13.0	11.5	12.0
29	---	---	---	5.0	3.5	4.0	10.5	5.5	7.5	13.5	11.0	12.0
30	---	---	---	4.0	3.0	3.5	11.0	5.5	8.5	13.5	11.0	12.0
31	---	---	---	5.0	2.5	3.5	---	---	---	13.0	11.5	12.5
MONTH	---	---	---	---	---	---	---	---	---	14.5	6.5	11.0

01125000 FRENCH RIVER AT WEBSTER, MASS.

LOCATION.--Lat 42°03'03", long 71°53'08", Worcester County, on right bank in Dudley, 50 ft (15 m) upstream from Pleasant Street Bridge at Webster, and 1.1 mi (1.8 km) upstream from Potash Brook.

DRAINAGE AREA.--85.3 mi² (220.9 km²).

PERIOD OF RECORD.--Discharge: December 1948 to current year.

Chemical analyses: Water years 1955, 1962 (partial-record station).

Water temperatures: Water year 1955 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 406.74 ft (123.974 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1721: 1959 (adjusted monthly and yearly figures only). WSP 2101: 1960.

REMARKS.--Records good. Flow regulated by mills, by Lake Chaubunagungamaug (estimated usable capacity, 207,000,000 ft³ or 5,860,000 m³), by Buffumville Lake and Hodges Village Reservoir (see p. 148), and by smaller reservoirs above station.

AVERAGE DISCHARGE.--26 years (1949-75), 157 ft³/s (4.446 m³/s), 24.99 in/yr (635 mm/yr), adjusted for storage in flood-control reservoirs.

EXTREMES.--Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) Aug. 19, 1955 (gage height, 26.05 ft or 7.940 m, from floodmarks), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computation of peak flow over dam; minimum daily, 2.2 ft³/s (0.062 m³/s) Aug. 15, 1965. Maximum discharge since construction of Buffumville Dam in 1958, 1,020 ft³/s (28.9 m³/s) Apr. 2, 1960 (gage height, 7.56 ft or 2.304 m); maximum gage height, 7.92 ft (2.414 m) Mar. 21, 1968.

Flood of Mar. 19, 1936, reached a discharge of 4,700 ft³/s (133 m³/s), by computation of flow over dam about 0.5 mi (0.8 km) upstream.

Current year: Maximum discharge, 754 ft³/s (21.4 m³/s) Feb. 26 (gage height, 7.21 ft or 2.198 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	130	100	183	265	304	221	95	48	31	25	28
2	333	114	185	183	224	257	225	101	46	29	24	27
3	266	106	333	175	201	239	257	107	43	28	23	26
4	203	109	458	161	183	208	417	114	86	26	22	24
5	169	122	371	144	182	192	709	121	87	24	22	23
6	140	145	274	135	182	174	616	121	127	24	22	22
7	127	172	223	141	182	167	352	119	140	24	25	21
8	115	154	207	144	177	170	304	110	137	23	30	21
9	96	157	339	167	175	164	281	103	127	22	34	21
10	83	154	552	187	169	161	258	97	110	23	39	20
11	80	145	518	207	170	161	225	89	93	22	36	21
12	77	143	389	293	164	161	200	89	99	27	32	30
13	64	145	288	468	161	164	185	129	152	30	30	31
14	64	154	244	572	157	170	177	164	177	34	29	41
15	66	163	219	580	150	174	170	181	167	39	27	38
16	148	157	219	448	148	170	167	177	167	37	25	38
17	207	163	245	303	148	167	149	164	167	35	24	38
18	306	166	291	271	148	164	137	143	167	34	23	35
19	219	148	314	330	158	170	137	121	143	32	22	32
20	185	151	279	398	168	300	127	103	114	33	21	36
21	166	179	248	366	163	666	127	93	72	41	20	65
22	207	189	219	315	151	615	121	86	53	43	20	82
23	278	196	215	269	159	510	112	78	45	42	19	121
24	169	189	209	240	231	427	110	70	43	38	20	164
25	130	185	206	245	512	315	129	54	42	37	21	204
26	111	179	200	317	735	362	140	48	41	35	21	230
27	102	154	191	376	646	230	143	49	39	34	21	315
28	98	125	187	341	498	208	140	46	38	32	21	478
29	96	113	187	295	---	196	129	44	35	30	20	426
30	96	109	183	297	---	208	112	43	34	29	28	258
31	132	---	180	298	---	225	---	53	---	26	26	---
TOTAL	4998	4520	8273	8849	6607	7799	6577	3112	2839	964	772	2916
MEAN	161	151	267	285	236	252	219	100	94.6	31.1	24.9	97.2
MAX	465	196	552	580	735	666	709	181	177	43	39	478
MIN	64	106	100	135	148	161	110	43	34	22	19	20
MEAN†	145	159	268	287	236	251	217	101	92.2	30.7	23.7	101
CFSM†	1.70	1.86	3.14	3.36	2.77	2.94	2.54	1.18	1.08	.36	.28	1.18
IN.†	1.96	2.08	3.62	3.88	2.88	3.39	2.84	1.36	1.21	.42	.32	1.33

CAL YR 1974 TOTAL 66062 MEAN 181 MAX 806 MIN 15 MEAN† 179 CFSM† 2.10 IN† 28.49
WTR YR 1975 TOTAL 58226 MEAN 160 MAX 735 MIN 19 MEAN† 159 CFSM† 1.86 IN† 25.29

† Adjusted for change in contents in Buffumville Lake and Hodges Village Reservoir.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

THAMES RIVER BASIN

Reservoirs in Thames River basin

01123350 EAST BRIMFIELD LAKE on Quinebaug River, 0.7 mi (1.1 km) southwest of Fiskdale, Mass., 1.2 mi (1.9 km) east of East Brimfield, completed in 1960, used for flood control, conservation, and recreation, has usable capacity of 1,400,000,000 ft³ (39,600,000 m³). Records furnished by Corps of Engineers.

01123550 WESTVILLE LAKE on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge, Mass., completed in 1962, used for flood control and recreation, has usable capacity of 484,000,000 ft³ (13,700,000 m³). Records furnished by Corps of Engineers.

01124300 HODGES VILLAGE RESERVOIR on French River at Hodges Village, Mass., 0.8 mi (1.3 km) west of Oxford, completed in 1960 for flood control, has usable capacity of 577,000,000 ft³ (16,300,000 m³). Records furnished by Corps of Engineers.

01124400 BUFFUMVILLE LAKE on Little River at Buffumville, Mass., 2.2 mi (3.5 km) west of Oxford, completed in 1958, used for flood control and recreation, has usable capacity of 555,000,000 ft³ (15,700,000 m³). Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	East Brimfield Lake	Westville Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1974	124.4	9.9	9.1	79.1
Oct. 31.....	111.0	5.8	1.2	43.8
Nov. 30.....	111.0	5.4	0.8	66.2
Dec. 31.....	112.6	6.0	1.2	68.8
Jan. 31, 1975.....	117.6	6.7	1.5	72.4
Feb. 28.....	124.4	6.7	2.1	72.4
Mar. 31.....	117.6	6.8	1.3	71.4
Apr. 30.....	111.0	5.7	0.7	66.2
May 31.....	107.7	5.0	0.6	67.1
June 30.....	102.7	4.7	0.5	61.0
July 31.....	104.4	4.7	0.4	60.1
Aug. 31.....	104.4	4.7	0.6	56.6
Sept. 30.....	150.7	13.5	1.9	66.2

01161280 CONNECTICUT RIVER NEAR NORTHFIELD, MASS.

LOCATION.--Lat 42°41'05", long 72°28'22", Franklin County, on upstream side of bridge on State Highway 10, near Northfield, Mass.

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1974 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.									
22...	1100	126	6.8	15.5	7.5	10.4	6600	110	20
NOV.									
14...	0900	110	6.9	8.5	7.0	9.1	6300	160	120
DEC.									
12...	1100	90	7.3	3.0	1.5	12.2	4700	270	190
JAN.									
21...	1430	106	7.1	-4.5	.5	12.7	7400	270	110
MAR.									
05...	1330	114	7.2	4.5	.5	12.9	3000	72	61
18...	1045	118	7.1	9.0	3.0	12.7	3100	79	150
APR.									
15...	1600	118	7.1	15.0	6.5	11.8	480	22	810
MAY									
12...	1545	89	6.8	24.0	13.0	10.4	1200	130	22
JUNE									
25...	1145	110	6.9	29.0	22.5	9.2	14000	83	816
JULY									
29...	0945	124	5.9	21.0	24.0	7.8	17000	110	830
AUG.									
26...	1515	131	6.7	24.0	22.0	7.4	4000	--	38
SEP.									
10...	1100	135	7.5	17.0	19.0	9.0	15000	20	8100

DATE	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT.									
22...	.000	4.70	.51	.02	.53	.32	.10	.95	.42
NOV.									
14...	2.00	.400	.49	.02	.51	.29	.09	.89	.38
DEC.									
12...	2.40	2.40	.33	.00	.33	.44	.18	.95	.62
JAN.									
21...	2.80	5.20	.37	.01	.38	.24	.29	.91	.53
MAR.									
05...	.000	.500	.35	.01	.36	.20	.22	.78	.42
18...	.000	.000	.36	.01	.37	.25	.07	.69	.32
APR.									
15...	.000	.000	.36	.01	.37	.13	.11	.61	.24
MAY									
12...	.000	.000	.39	.01	.40	.01	.13	.54	.14
JUNE									
25...	4.50	.000	.18	.01	.19	.00	.22	.41	.22
JULY									
29...	2.50	.000	.10	.01	.11	.06	.27	.44	.33
AUG.									
26...	.300	.000	.19	.01	.20	.03	.28	.51	.31
SEP.									
10...	.800	.000	.14	.01	.15	.00	.30	.45	.30

CONNECTICUT RIVER BASIN

01161280 CONNECTICUT RIVER NEAR NORTHFIELD, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
OCT. 22...	.02	78	3	--	--	1	--	--
NOV. 14...	.02	74	4	11	6.4	0	1	4
DEC. 12...	.03	72	5	12	--	0	--	--
JAN. 21...	.02	78	4	10	--	0	--	--
MAR. 05...	.03	66	3	9	2.7	0	0	1
18...	.03	64	4	9	--	0	--	--
APR. 15...	.03	73	2	7	--	0	--	--
MAY 12...	.03	58	3	12	--	0	--	--
JUNE 25...	.03	51	2	12	7.0	0	0	0
JULY 29...	.03	85	2	11	--	0	--	--
AUG. 26...	.03	84	2	5	--	0	--	--
SEP. 10...	.03	93	3	12	2.1	0	1	1

DATE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
NOV. 14...	190	440	68	32	0	26	9.8	7.3	19	0	0	6
MAR. 05...	160	270	50	30	0	25	7.4	8.4	13	0	0	6
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	180	260	50	35	0	29	11	8.2	15	0	0	6
SEP. 10...	180	200	46	41	0	34	9.1	10	16	0	0	6

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
NOV. 14...	<2	0	4	2	0	2	0	67	.4	7	0	0
MAR. 05...	<5	0	2	2	0	1	0	58	<.2	15	0	0
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	<1	0	2	1	0	2	0	72	<.4	5	0	0
SEP. 10...	<2	0	2	2	1	1	0	70	<2.0	10	0	0

DATE	TOTAL GERMANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TITANIUM (TI) (UG/L)	TOTAL ZIRCONIUM (ZR) (UG/L)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	COD IN BOTTOM MATERIAL (MG/KG)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BERYLLIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BORON IN BOTTOM MATERIAL (UG/G)
NOV. 14...	0	0	9	0	--	--	--	--	--	--	--	--
MAR. 05...	0	0	10	0	5200	3400	1500	3000	130	10	0	4
APR. 15...	--	--	--	--	--	--	3300	5000	170	17	0	5
JUNE 25...	0	0	10	<1	20000	21000	4700	8700	190	26	0	4
SEP. 10...	0	1	20	<1	30000	39000	6200	10000	250	35	0	6

01161280 CONNECTICUT RIVER NEAR NORTHFIELD, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOLYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANA- DIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITA- NIUM IN BOTTOM MA- TERIAL (UG/G)
NOV. 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 05...	<2	4	3	5	4	0	8	0	10	3.0	23	35
APR. 15...	<1	8	4	15	15	0	13	0	5	7.0	40	140
JUNE 25...	<1	13	5	20	16	17	0	5	200	55	0	8
SEP. 10...	3	25	6	30	17	3	30	0	7	12	120	360

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
NOV. 14...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
MAR. 05...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
JUNE 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
SEP. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 22...	<.8	2.7	3.3	75	<.4	.4	.5	5
NOV. 14...	<.8	2.5	3.1	73	<.4	<.4	<.4	3
DEC. 12...	<.5	1.7	2.1	66	.6	<.6	<.6	6
JAN. 21...	2.7	2.2	2.8	69	<.4	<.5	<.6	12
MAR. 05...	2.0	2.4	3.0	69	3.6	3.9	4.3	3
APR. 18...	<1.0	2.0	2.5	74	1.2	1.8	2.0	3
MAY 15...	1.2	2.0	2.5	73	<.4	<.5	<.6	3
JUNE 12...	<.4	1.6	1.7	1	.5	.5	.6	9
JULY 25...	<.6	1.7	2.2	62	<.4	<.4	<.4	3
AUG. 29...	1.1	2.4	3.0	75	<.4	<.4	<.4	33
SEP. 26...	3.7	3.4	4.3	73	<.4	<.4	<.4	2
SEP. 10...	4.0	7.0	8.8	120	1.4	.5	.6	4

CONNECTICUT RIVER BASIN

01161500 TARBELL BROOK NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°42'45", long 72°05'09", Worcester County, on left bank 0.1 mi (0.2 km) downstream from Spud Brook, 0.3 mi (0.5 km) downstream from Massachusetts-New Hampshire State line, and 2.8 mi (4.5 km) northwest of Winchendon.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--Discharge: May 1916 to current year. Prior to October 1950, published as Sip Pond Brook near Winchendon.

Chemical analyses: Water years 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder. Concrete control since Sept. 24, 1965. Datum of gage is 872.82 ft (266.036 m) above mean sea level. May 29 to June 29, 1916, nonrecording gage; June 30 to Dec. 12, 1916, water-stage recorder; and Dec. 13, 1916, to June 26, 1917, nonrecording gage, all at site 450 ft (150 m) downstream at same datum.

REVISIONS (WATER YEARS).--WSP 781: 1934. WSP 871: Drainage area. WSP 1051: 1928(M), 1933-34. WSP 1301: 1917(M).

REMARKS.--Records good. Some regulation by Pearly and Sip Ponds and Damon Reservoirs 1 mi (1.6 km) upstream. Prior to 1967, greater regulation by these reservoirs and by small mill above station.

AVERAGE DISCHARGE.--59 years, 29.2 ft³/s (0.827 m³/s), 21.79 in/yr (553 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) Sept. 21, 1938 (gage height, 13.72 ft or 4.182 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of critical-depth study at control section; minimum, 0.1 ft³/s (0.003 m³/s) Aug. 25, 1924.

Current year: Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	1830	151 4.28	8.18 2.493	Sept. 27	2100	*307 8.69	*9.45 2.880
Apr. 4	1800	214 6.06	8.79 2.679				

Minimum discharge, 2.8 ft³/s (0.079 m³/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	9.3	21	21	37	61	82	42	8.5	5.3	12	29
2	14	10	26	20	32	54	73	36	9.4	5.3	9.1	23
3	11	8.9	40	18	29	49	85	33	8.7	4.8	8.4	19
4	9.8	11	43	17	25	43	194	28	13	4.0	7.8	18
5	15	14	36	16	24	38	187	27	12	3.8	7.8	15
6	16	21	31	16	24	34	145	25	29	3.9	7.5	15
7	15	23	26	16	24	31	117	24	60	3.7	11	15
8	13	21	28	16	23	31	97	22	57	3.5	42	13
9	11	18	60	17	22	29	82	20	44	4.0	90	17
10	8.3	17	76	19	21	27	70	21	41	4.6	68	19
11	7.3	16	66	22	20	25	64	25	35	4.2	46	18
12	6.4	16	55	31	19	24	61	21	30	4.1	37	17
13	5.9	15	47	43	19	24	59	23	48	4.9	31	18
14	5.4	16	42	50	18	25	56	25	68	20	26	16
15	5.1	17	38	45	17	25	54	24	61	57	20	9.6
16	12	15	35	39	17	25	55	20	68	66	16	7.6
17	21	14	39	35	16	25	59	19	56	53	14	7.0
18	21	18	40	31	16	26	60	18	45	41	13	6.7
19	23	19	36	33	17	29	64	17	38	32	12	6.9
20	23	18	32	35	17	65	73	16	31	26	11	8.0
21	22	29	29	30	17	139	74	15	23	41	9.1	7.8
22	19	52	27	28	17	140	65	14	21	44	8.1	11
23	16	50	25	26	17	120	57	14	20	33	7.5	9.8
24	15	42	23	24	31	109	54	13	17	24	7.8	16
25	14	38	22	25	70	112	66	11	12	34	8.1	41
26	12	35	23	37	84	121	70	9.6	18	36	8.4	96
27	11	31	21	44	77	111	63	8.8	16	27	8.3	236
28	9.9	27	20	42	68	95	58	8.5	13	21	7.9	248
29	8.8	26	19	41	---	81	52	7.9	7.4	17	7.5	166
30	8.4	23	21	43	---	80	47	7.7	6.2	15	25	123
31	8.7	---	21	41	---	89	---	7.8	---	13	35	---
TOTAL	405.0	670.2	1068	921	818	1887	2343	603.3	916.2	656.1	622.3	1252.4
MEAN	13.1	22.3	34.5	29.7	29.2	60.9	78.1	19.5	30.5	21.2	20.1	41.7
MAX	23	52	76	50	84	140	194	42	68	66	90	248
MIN	5.1	8.9	19	16	16	24	47	7.7	6.2	3.5	7.5	6.7
CFSM	.72	1.23	1.90	1.63	1.60	3.35	4.29	1.07	1.68	1.16	1.10	2.29
IN.	.83	1.37	2.18	1.88	1.67	3.86	4.79	1.23	1.87	1.34	1.27	2.56

CAL YR 1974 TOTAL 10822.9 MEAN 29.7 MAX 143 MIN 1.5 CFSM 1.63 IN 22.12
WTR YR 1975 TOTAL 12162.5 MEAN 33.3 MAX 248 MIN 3.5 CFSM 1.83 IN 24.86

01162000 MILLERS RIVER NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°41'03", long 72°05'02", Worcester County, on right bank 10 ft (3 m) downstream from Nolan Bridge, 0.3 mi (0.5 km) downstream from Tarbell Brook, 2 mi (3 km) west of Winchendon, and at mile 32.8 (52.8 km).

DRAINAGE AREA.--83.0 mi² (215.0 km²).

PERIOD OF RECORD.--Discharge: June 1916 to current year. March to May 1917, monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1957, 1965-66 (partial-record station).

Water temperatures: Water years 1957, 1965-66 (partial-record station).

Sediment records: Water year 1965 (partial-record station).

GAGE.--Water-stage recorder. Concrete control since Oct. 6, 1933. Datum of gage is 826.66 ft (251.966 m) above mean sea level. Prior to July 27, 1916, nonrecording gage at bridge at same datum.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1920-21(M), 1922-24, 1928(M), 1933-34.

REMARKS.--Records good. Flow regulated by Lake Monomonac 6 mi (10 km) upstream and other reservoirs and, prior to 1957, by powerplant.

AVERAGE DISCHARGE.--59 years, 142 ft³/s (4.021 m³/s), 23.23 in/yr (590 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 8,500 ft³/s (241 m³/s) Sept. 22, 1938 (gage height, 21.55 ft or 6.568 m, from floodmarks), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of computation of peak flow over dam; practically no flow because of regulation Sept. 20, 1918, Jan. 14, 1925.

Current year: Peak discharges above base of 690 ft³/s (19.5 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 4	1700	808 22.9	7.48 2.280	Sept. 27	2245	*1,300 36.8	*8.85 2.697

Minimum daily discharge, 14 ft³/s (0.40 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	63	97	107	175	311	358	148	50	18	42
2	117	60	152	102	150	271	329	112	63	17	34
3	104	55	240	86	145	240	443	103	54	18	31
4	98	63	209	82	125	210	790	104	95	17	29
5	94	96	173	76	110	189	763	109	94	16	28
6	97	130	156	74	115	173	626	101	225	15	28
7	93	108	130	80	110	163	503	92	254	15	58
8	95	87	161	75	105	172	423	86	211	14	192
9	94	74	380	82	100	158	371	81	163	15	350
10	96	66	358	89	96	147	333	90	170	16	291
11	126	61	311	102	92	140	311	103	153	16	206
12	119	60	267	161	88	135	299	94	148	17	192
13	114	70	259	202	86	143	291	119	247	23	173
14	111	70	238	214	84	149	281	133	267	98	141
15	109	66	216	180	82	144	274	113	234	153	119
16	163	59	203	150	80	137	276	102	208	136	106
17	234	54	234	125	79	139	278	94	175	110	97
18	185	55	238	110	83	146	281	85	153	87	61
19	160	56	215	120	88	151	295	80	115	70	44
20	145	54	195	135	94	429	321	75	81	63	38
21	125	205	177	125	95	575	311	72	65	123	35
22	121	260	169	120	99	528	285	69	57	153	32
23	119	187	156	116	105	464	258	67	59	119	29
24	87	153	137	108	190	439	256	64	57	93	30
25	68	143	134	114	403	473	269	57	50	143	31
26	62	133	129	203	439	489	258	53	49	136	32
27	57	119	120	195	388	433	238	51	41	109	32
28	53	112	120	170	388	384	218	45	34	92	31
29	51	107	115	163	---	344	202	42	25	87	29
30	60	101	114	211	---	361	173	40	21	81	143
31	65	---	107	198	---	390	---	46	---	59	141
TOTAL	3365	2930	5910	4075	4144	8627	10314	2630	3618	2129	2825
MEAN	109	97.7	191	131	148	278	344	84.8	121	68.7	91.1
MAX	234	260	380	214	439	575	790	148	267	153	350
MIN	51	54	97	74	79	135	173	40	21	14	28
CFSM	1.31	1.18	2.30	1.58	1.78	3.35	4.14	1.02	1.46	.83	1.10
IN.	1.51	1.31	2.65	1.83	1.86	3.87	4.62	1.18	1.62	.95	1.27

CAL YR 1974	TOTAL	54914.4	MEAN 150	MAX 500	MIN 9.4	CFSM 1.81	IN 24.61
WTR YR 1975	TOTAL	57054.0	MEAN 156	MAX 1210	MIN 14	CFSM 1.88	IN 25.57

01162500 PRIEST BROOK NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°40'57", long 72°06'56", Worcester County, on right bank 100 ft (30 m) downstream from highway bridge, 3 mi (4.8 km) upstream from mouth, and 3.5 mi (5.6 km) west of Winchendon.

DRAINAGE AREA.--19.4 mi² (50.2 km²).

PERIOD OF RECORD.--Discharge: May 1916 to current year. Monthly discharge only October 1917 to July 1918 (published in WSP 1301) and September 1935 to September 1936.

Chemical analyses: Water years 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder. Concrete control since September 1936. Datum of gage is 849.67 ft (258.979 m) above mean sea level. Prior to Sept. 11, 1936, nonrecording gage on left bank at same datum.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1922-24. WSP 1301: 1917(M), 1919-24(M), 1926-27(M), 1929(M), 1931-35(M).

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Prior to 1962, occasional diurnal fluctuation at low flow by mill above station; prior to 1953, regulation at low flow by mill and ponds.

AVERAGE DISCHARGE.--59 years, 32.4 ft³/s (0.918 m³/s), 22.68 in/yr (576 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 3,000 ft³/s (85.0 m³/s) Sept. 21, 1938 (gage height, 9.90 ft or 3.018 m), from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of contracted-opening measurements at gage heights 8.4 and 9.90 ft (2.56 and 3.018 m); minimum, 0.08 ft³/s (0.002 m³/s) several times in September 1929.

Current year: Peak discharges above base of 190 ft³/s (5.38 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 4	0600	215 6.09	4.26 1.298	Sept. 27	1315	*457 12.9	*5.34 1.628

Minimum discharge, 1.5 ft³/s (0.042 m³/s) July 6, 7, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	4.4	18	17	35	75	78	31	6.3	2.6	4.3	30
2	20	4.5	23	17	29	61	69	31	12	2.0	3.8	21
3	19	4.4	43	16	25	48	78	31	9.3	1.9	3.6	15
4	13	12	39	16	21	40	204	30	25	1.7	3.5	11
5	9.1	22	33	15	20	34	188	33	30	1.7	4.0	9.0
6	7.3	34	26	13	21	30	155	31	48	1.6	4.5	4.2
7	6.4	32	22	14	21	26	124	28	82	1.6	15	9.0
8	5.4	26	26	15	20	28	100	25	69	1.6	40	4.7
9	4.9	22	63	15	19	28	82	23	52	2.0	86	9.0
10	4.3	19	78	17	19	25	66	22	38	5.5	90	7.4
11	4.1	17	70	21	19	22	60	22	31	3.9	60	6.3
12	3.8	16	60	37	18	21	58	20	28	3.9	50	6.7
13	4.1	19	49	47	19	24	58	26	54	5.8	40	11
14	3.8	23	41	51	17	26	57	31	78	28	27	4.7
15	3.8	22	35	46	16	25	58	28	73	100	18	8.2
16	9.1	20	30	39	15	25	62	26	61	135	13	7.1
17	32	18	34	33	15	25	66	24	45	130	10	6.7
18	25	16	37	26	15	31	73	21	37	98	8.5	8.2
19	18	16	34	31	16	33	84	14	29	63	6.8	8.6
20	13	16	30	34	19	77	102	16	20	21	5.8	12
21	11	36	27	28	18	164	100	14	15	40	5.2	15
22	9.5	63	26	26	17	171	91	12	11	42	5.2	13
23	9.1	61	24	23	18	149	82	11	7.4	23	4.5	13
24	8.0	51	23	21	28	130	65	9.3	5.8	21	4.5	24
25	7.7	42	22	22	63	124	64	8.2	5.0	34	5.5	86
26	7.7	36	22	35	88	130	62	7.1	4.1	28	5.0	144
27	8.0	27	19	43	88	114	55	6.7	3.6	18	4.7	352
28	7.7	30	19	42	85	103	48	9.0	3.4	12	4.5	354
29	7.3	23	18	40	---	92	41	7.8	3.3	4.0	4.3	244
30	8.0	21	18	41	---	81	36	6.7	2.9	6.0	15	157
31	9.1	---	17	40	---	85	---	6.3	---	5.0	35	---
TOTAL	318.2	769.3	1026	881	804	2047	2466	616.1	893.1	847.8	587.2	1615.4
MEAN	10.3	25.6	33.1	28.4	28.7	66.0	82.2	19.9	29.8	27.3	18.9	53.9
MAX	32	63	78	51	88	171	204	33	82	135	90	354
MIN	3.8	9.5	17	13	15	21	36	6.3	2.9	1.6	3.5	6.3
CFSM	.53	1.32	1.71	1.46	1.48	3.40	4.24	1.03	1.54	1.41	.97	2.78
IN.	.61	1.48	1.97	1.69	1.54	3.92	4.73	1.18	1.71	1.63	1.13	3.10
CAL YR 1974 TOTAL	11530.71											
MEAN	31.6											
MAX	169											
MIN	1.6											
CFSM	1.63											
IN	22.11											
WTR YR 1975 TOTAL	12871.50											
MEAN	35.3											
MAX	354											
MIN	1.6											
CFSM	1.82											
IN	24.68											

NOTE.--No gage-height record July 22 to Sept. 7.

CONNECTICUT RIVER BASIN

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01163200 OTTER RIVER AT OTTER RIVER, MASS.

LOCATION.--Lat 42°35'18", long 72°02'29", Worcester County, on right bank at upstream side of Turner Street Bridge, 0.2 mi (0.3 km) upstream from Bailey Brook, 0.8 mi (1.3 km) southeast of Otter River, and 2 mi (3 km) northwest of Gardner.

DRAINAGE AREA.--34.2 mi² (88.6 km²).

PERIOD OF RECORD.--Discharge: December 1964 to current year.

Chemical analyses: Water years 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 900 ft (274 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years (1965-75), 59.4 ft³/s (1.682 m³/s), 23.59 in/yr (599 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 714 ft³/s (20.2 m³/s) Dec. 22, 1973 (gage height, 4.41 ft or 1.344 m); minimum, 2.2 ft³/s (0.062 m³/s) Aug. 13, 1974.

Current year: Maximum discharge, 518 ft³/s (14.7 m³/s) Sept. 27 (gage height, 3.81 ft or 1.161 m); minimum, 5.3 ft³/s (0.15 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	32	39	46	79	134	131	47	18	9.1	9.6	52
2	104	27	61	45	69	107	117	48	18	8.9	9.3	35
3	76	26	132	44	59	87	135	56	18	8.7	8.5	25
4	56	30	136	42	52	77	298	58	39	9.2	6.9	20
5	45	51	105	41	46	69	302	63	52	9.1	6.7	16
6	38	77	76	39	53	61	242	61	94	8.9	8.8	15
7	33	78	62	40	51	60	193	56	138	8.6	21	20
8	30	67	70	40	51	68	155	51	111	8.1	61	17
9	28	56	180	41	47	62	132	47	77	8.7	140	15
10	26	47	199	43	44	61	114	44	56	13	139	14
11	25	41	161	53	42	54	105	41	45	13	97	11
12	24	38	123	100	40	52	99	39	43	12	63	10
13	22	46	103	131	38	58	97	46	80	19	48	21
14	21	51	91	143	37	68	91	55	111	48	36	23
15	21	50	82	126	37	66	86	52	104	91	27	21
16	37	45	71	111	37	61	85	46	82	82	22	17
17	80	40	91	87	40	62	83	41	63	57	19	14
18	85	34	99	79	42	64	82	36	52	37	16	12
19	72	31	97	85	44	70	83	32	44	26	14	12
20	57	31	85	90	52	179	89	30	38	21	12	14
21	46	70	75	77	51	271	83	27	29	46	11	14
22	40	108	69	67	50	268	73	24	26	58	11	13
23	36	99	63	62	53	218	65	23	25	47	8.5	17
24	32	83	59	56	99	179	66	21	18	33	9.1	38
25	30	72	58	59	198	178	72	18	15	33	9.1	140
26	31	65	56	112	222	183	73	16	13	29	9.3	211
27	29	49	50	118	196	162	67	16	12	23	9.3	452
28	27	67	49	105	163	140	61	16	11	18	8.8	468
29	25	52	48	92	---	115	57	14	10	15	8.2	317
30	23	44	46	101	---	117	54	14	9.5	12	31	205
31	30	---	46	90	---	137	---	17	---	11	60	---
TOTAL	1364	1607	2682	2365	1992	3488	3390	1155	1451.5	823.3	940.1	2259
MEAN	44.0	53.6	86.5	76.3	71.1	113	113	37.3	48.4	26.6	30.3	75.3
MAX	135	108	199	143	222	271	302	63	138	91	140	468
MIN	21	26	39	39	37	52	54	14	9.5	8.1	6.7	10
CFSM	1.29	1.57	2.53	2.23	2.08	3.30	3.30	1.09	1.42	.78	.89	2.20
IN.	1.48	1.75	2.92	2.57	2.17	3.79	3.69	1.26	1.58	.90	1.02	2.46
CAL YR 1974	TOTAL	22894.2	MEAN	62.7	MAX	231	MIN	3.7	CFSM	1.83	IN	24.90
WTR YR 1975	TOTAL	23516.9	MEAN	64.4	MAX	468	MIN	6.7	CFSM	1.88	IN	25.58

01164000 MILLERS RIVER AT SOUTH ROYALSTON, MASS.

LOCATION.--Lat 42°37'47", long 72°09'03", Worcester County, on right bank 500 ft (150 m) downstream from bridge in South Royalston, 0.4 mi (0.6 km) downstream from Beaver Brook, 1.7 mi (2.7 km) downstream from Birch Hill Dam, and at mile 25.5 (41.0 km).

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--Discharge: July 1939 to current year.

Chemical analyses: Water years 1957, 1965-66 (partial-record station).

Water temperatures: Water years 1957, 1965-66 (partial-record station).

Sediment records: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 792.00 ft (241.402 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Lake Monomonic and other reservoirs, by mills and powerplants prior to 1955, and at high flow by Birch Hill Reservoir since 1941 (see p. 245).

AVERAGE DISCHARGE.--36 years, 314 ft³/s (8.892 m³/s), 22.80 in/yr (579 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 4,400 ft³/s (125 m³/s) Apr. 13, 1940 (gage height, 8.40 ft or 2.560 m); maximum gage height, 9.42 ft (2.871 m) Jan. 24, 1959 (backwater from ice); minimum daily discharge, 9.3 ft³/s (0.26 m³/s) Aug. 4, 1956. Maximum discharge since construction of Birch Hill Reservoir in 1941, 2,830 ft³/s (80.1 m³/s) June 25, 26, 1944 (gage height, 7.57 ft or 2.307 m).

Flood of Sept. 21 or 22, 1938, reached a stage of 15.9 ft (4.85 m), from floodmarks (discharge not determined).

Current year: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Sept. 30 (gage height, 7.00 ft or 2.134 m); minimum daily, 43 ft³/s (1.22 m³/s) July 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	152	235	253	424	737	800	356	113	59	98	330
2	366	142	290	246	370	620	733	312	146	55	81	243
3	305	132	523	221	320	532	778	311	131	49	74	193
4	252	146	542	223	290	457	1390	310	214	48	69	161
5	218	246	447	202	305	410	1670	334	280	47	69	142
6	202	335	407	185	293	381	1550	322	451	47	71	128
7	186	335	330	195	283	358	1310	292	725	44	134	139
8	177	315	342	197	270	380	1060	265	663	43	349	127
9	174	261	690	203	260	310	886	243	508	43	680	130
10	166	223	843	233	250	340	768	228	394	57	726	146
11	191	197	767	264	240	327	697	254	342	57	587	138
12	194	184	644	426	230	304	660	240	306	57	461	136
13	184	212	559	538	220	328	637	283	469	72	389	191
14	176	246	502	587	210	365	610	357	607	203	312	186
15	175	231	457	506	205	348	592	315	594	485	247	177
16	227	214	409	470	200	328	589	277	512	491	209	143
17	433	191	451	385	200	333	591	254	424	425	188	113
18	426	177	499	340	210	355	599	226	349	333	146	99
19	361	170	476	398	225	384	622	204	291	245	107	97
20	309	167	434	433	235	739	674	187	217	171	91	117
21	267	335	394	365	245	1210	677	172	170	286	81	125
22	235	429	371	353	251	1300	630	158	141	381	76	116
23	229	536	352	305	269	1200	569	151	130	316	69	124
24	199	462	328	284	399	1060	539	142	121	231	66	221
25	156	400	314	282	777	1030	559	128	108	293	74	700
26	149	363	302	455	984	1060	553	117	98	322	75	1060
27	138	298	315	525	958	985	517	111	85	254	74	915
28	128	301	295	498	843	879	475	110	78	200	69	1260
29	122	282	270	441	---	784	439	106	67	171	65	1650
30	123	249	266	482	---	748	400	103	61	153	245	1830
31	135	---	252	470	---	820	---	114	---	128	418	---
TOTAL	7023	7931	13306	10965	9966	19412	22574	6982	8795	5766	6400	11137
MEAN	227	264	429	354	356	626	752	225	293	186	206	371
MAX	433	536	843	587	984	1300	1670	357	725	491	726	1830
MIN	122	132	235	185	200	304	400	103	61	43	65	97
MEAN†	226	265	429	355	359	626	749	224	293	186	208	461
CFSM†	1.21	1.42	2.29	1.90	1.92	3.35	4.01	1.20	1.57	.99	1.11	2.47
IN.†	1.39	1.58	2.65	2.19	2.00	3.86	4.47	1.38	1.75	1.15	1.28	2.75
CAL YR 1974 TOTAL	126120		MEAN 346	MAX 1440	MIN 29		MEAN† 342	CFSM† 1.83	IN† 24.83			
WTR YR 1975 TOTAL	130257		MEAN 357	MAX 1830	MIN 43		MEAN† 364	CFSM† 1.95	IN† 26.45			

† Adjusted for change in contents in Birch Hill Reservoir.

01165000 EAST BRANCH TULLY RIVER NEAR ATHOL, MASS.

LOCATION.--Lat 42°38'32", long 72°13'34", Worcester County, on right bank 300 ft (90 m) downstream from Tully Dam, 1.3 mi (2.1 km) downstream from Lawrence Brook, 3.5 mi (5.6 km) north of Athol, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--50.4 mi² (130.5 km²).

PERIOD OF RECORD.--Discharge: October 1915 to current year. October 1915 to May 1916 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

Sediment records: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 613.71 ft (187.059 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 26, 1948, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 14.40 ft (4.389 m) higher.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 891: Drainage area. WSP 1051: 1916(M), 1928. WSP 1301: 1917-35(M), 1937(M).

REMARKS.--Records good. Flow regulated by Tully Reservoir since 1948 (see p. 245).

AVERAGE DISCHARGE.--60 years, 80.6 ft³/s (2.283 m³/s), 21.72 in/yr (552 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 5,140 ft³/s (146 m³/s) Sept. 21, 1938 (gage height, 8.60 ft or 2.621 m, from floodmarks, site and datum then in use), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of contracted-opening measurement and computation of peak flow over dam; minimum, 0.01 ft³/s (<0.001 m³/s) Nov. 6-11, 1961; minimum daily, 0.01 ft³/s (<0.001 m³/s) Nov. 7-10, 1961. Maximum discharge since construction of Tully Reservoir in 1948, 828 ft³/s (23.4 m³/s) Apr. 21, 1960 (gage height, 5.38 ft or 1.640 m).

Current year: Maximum discharge, 643 ft³/s (18.2 m³/s) Apr. 4 (gage height, 4.58 ft or 1.396 m); minimum, 3.2 ft³/s (0.091 m³/s) July 12-14; minimum daily, 3.2 ft³/s (0.091 m³/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	9.6	58	53	119	169	220	84	17	8.2	40	172
2	95	9.6	58	51	96	172	220	84	17	8.0	25	114
3	59	10	59	51	67	135	202	86	16	8.0	25	66
4	40	10	84	51	57	90	371	86	48	8.0	25	66
5	40	10	94	50	57	90	615	86	103	7.6	25	35
6	40	21	82	45	57	96	535	86	172	7.5	25	13
7	77	80	60	45	57	80	330	86	199	7.5	45	13
8	97	89	60	45	57	74	259	86	199	7.5	124	24
9	72	57	110	45	57	74	255	84	148	7.5	267	44
10	58	51	209	45	57	74	202	84	86	7.5	313	44
11	48	51	239	59	57	69	178	71	67	7.1	195	44
12	18	51	124	96	48	60	172	51	47	6.7	90	44
13	9.6	51	101	135	45	69	160	42	98	3.2	90	44
14	10	51	129	145	45	82	166	71	189	35	108	44
15	10	66	108	145	45	86	169	96	202	217	127	44
16	10	63	84	108	44	73	166	122	202	366	110	30
17	36	56	92	108	45	73	166	96	132	309	60	24
18	75	49	124	96	45	73	103	57	86	313	45	24
19	88	35	105	90	45	84	73	44	86	300	24	24
20	67	35	84	90	45	135	78	44	59	259	14	24
21	57	66	90	90	45	206	84	44	37	199	15	25
22	42	124	78	82	54	236	112	44	22	172	15	25
23	36	146	73	73	59	236	166	44	22	151	15	64
24	36	143	73	64	90	371	189	44	22	74	16	86
25	45	97	64	59	169	475	199	44	22	48	16	185
26	56	87	59	60	232	464	195	31	20	48	28	390
27	55	67	59	108	239	431	185	23	15	74	45	178
28	54	58	59	151	192	296	157	23	14	90	36	339
29	72	58	54	145	---	195	105	21	10	92	23	436
30	49	58	45	114	---	217	86	17	8.1	76	78	436
31	12	---	50	114	---	220	---	17	---	47	169	---
TOTAL	1566.6	1759.2	2768	2613	2225	5205	6118	1898	2365.1	2964.3	2233	3101
MEAN	50.5	58.6	89.3	84.3	79.5	168	204	61.2	78.8	95.6	72.0	103
MAX	103	146	239	151	239	475	615	122	202	366	313	436
MIN	9.6	9.6	45	45	44	60	73	17	8.1	3.2	14	13
MEAN†	31.6	62.2	90.3	84.1	80.5	169	217	59.2	78.8	96.9	75.2	138
CFSM†	.63	1.23	1.79	1.67	1.60	3.35	4.31	1.17	1.56	1.92	1.49	2.74
IN.†	.72	1.38	2.07	1.92	1.66	3.87	4.81	1.35	1.75	2.22	1.72	3.06
CAL YR 1974 TOTAL	29090.1		MEAN 79.7	MAX 516	MIN 1.9		MEAN† 77.0	CFSM† 1.53	IN† 20.74			
WTR YR 1975 TOTAL	34816.2		MEAN 95.4	MAX 615	MIN 3.2		MEAN† 98.4	CFSM† 1.95	IN† 26.52			

† Adjusted for change in contents in Tully Reservoir.

01165300 LAKE ROHUNTA OUTLET NEAR ATHOL, MASS.

LOCATION.--Lat 42°34'13", long 72°16'22", Worcester County, on right bank 300 ft (90 m) downstream from bridge on Daniel Shays Highway, 600 ft (200 m) downstream from Lake Rohunta, and 2.8 mi (4.5 km) southwest of Athol.

DRAINAGE AREA.--20.3 mi² (52.6 km²).

PERIOD OF RECORD.--Discharge: December 1964 to current year.

Chemical analyses: Water years 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 503.32 ft (153.412 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Lake Rohunta.

AVERAGE DISCHARGE.--10 years (1965-75), 34.0 ft³/s (0.963 m³/s).

EXTREMES.--Period of record: Maximum discharge, 496 ft³/s (14.0 m³/s) June 29, 1972 (gage height, 5.52 ft or 1.682 m), from rating curve extended above 240 ft³/s (6.80 m³/s); minimum daily, 0.17 ft³/s (0.005 m³/s) June 3, 4, 1971.

Current year: Maximum discharge, 280 ft³/s (7.93 m³/s) Sept. 28 (gage height, 3.85 ft or 1.173 m); minimum daily, 0.23 ft³/s (0.007 m³/s) May 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	13	25	23	44	74	78	35	13	4.8	16	20
2	37	12	27	23	42	65	75	33	14	4.1	12	19
3	29	13	31	22	40	59	79	29	14	3.6	11	16
4	24	14	33	22	36	54	141	27	19	3.4	9.2	14
5	20	20	34	21	35	49	177	26	22	3.3	9.2	13
6	19	29	32	20	34	48	149	26	37	3.0	8.0	13
7	23	33	29	19	32	45	115	22	60	3.7	13	12
8	24	33	32	19	30	46	95	21	64	5.9	31	11
9	24	32	45	19	29	45	83	9.9	57	7.0	57	9.9
10	21	30	52	19	28	44	77	.26	48	9.2	70	8.9
11	18	27	54	25	27	42	69	.24	39	8.3	64	9.5
12	18	25	51	38	26	41	64	.23	39	7.7	53	10
13	15	27	48	42	26	41	60	.28	48	11	44	11
14	15	90	44	42	25	41	56	.29	65	25	33	10
15	13	94	42	44	23	42	54	3.6	74	62	25	11
16	16	54	39	57	23	41	51	9.9	67	84	20	9.5
17	23	39	42	52	23	39	50	16	55	80	17	8.9
18	22	32	44	49	23	39	52	20	48	67	15	90
19	23	26	42	51	23	41	50	18	44	52	13	75
20	20	24	41	53	24	60	50	18	39	42	12	39
21	20	31	38	52	24	111	47	16	36	49	10	23
22	19	33	37	48	25	127	47	15	30	52	8.6	16
23	17	43	35	46	26	110	46	13	23	56	7.0	16
24	15	44	33	44	38	97	45	12	18	48	8.0	21
25	16	41	32	43	69	97	46	11	13	48	8.9	53
26	14	35	31	50	98	99	44	12	11	45	9.2	98
27	13	36	29	53	97	92	42	9.5	9.2	45	8.0	201
28	13	32	28	52	84	83	41	9.2	8.0	37	7.0	270
29	13	29	26	52	---	75	39	8.6	6.7	28	6.4	210
30	12	27	25	50	---	75	35	9.2	5.7	25	15	138
31	13	---	23	47	---	78	---	11	---	21	20	---
TOTAL	608	1018	1124	1197	1054	2000	2057	442.20	1026.6	941.0	640.5	1456.7
MEAN	19.6	33.9	36.3	38.6	37.6	64.5	68.6	14.3	34.2	30.4	20.7	48.6
MAX	39	94	54	57	98	127	177	35	74	84	70	270
MIN	12	12	23	19	23	39	35	.23	5.7	3.0	6.4	8.9
CAL YR 1974	TOTAL	12968.28	MEAN	35.5	MAX	143	MIN	.37				
WTR YR 1975	TOTAL	13565.00	MEAN	37.2	MAX	270	MIN	.23				

01165500 MOSS BROOK AT WENDELL DEPOT, MASS.

LOCATION.--Lat 42°36'10", long 72°21'36", Franklin County, on left bank 0.2 mi (0.3 km) upstream from mouth, 0.2 mi (0.3 km) north of Wendell Depot, and 2.5 mi (4.0 km) west of Orange.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--Discharge: June to October 1909, April to August 1910, June 1916 to current year. Published as "at Wendell" 1909-10.

Chemical analyses: Water year 1966 (partial-record station).

Water temperatures: Water year 1966 (partial-record station).

GAGE.--Water-stage recorder. Crest-stage gage since July 11, 1958. Datum of gage is 508.9 ft (155.11 m) above mean sea level. Prior to April 1910, nonrecording gage at site 1,200 ft (350 m) downstream at different datum. April to August 1910, nonrecording gage and sharp-crested weir at site 300 ft (90 m) downstream at different datum. June 1916 to Dec. 8, 1965, nonrecording gage at present site and datum.

REVISIONS (WATER YEARS).--WSP 821: 1936(M). WSP 891: Drainage area. WSP 1051: 1917, 1919-24, 1929(M). WSP 1231: 1917-21(M), 1922, 1923(M), 1924-26, 1927-28(M), 1929, 1930-35(M), 1939(M), 1941(M), 1944(M), 1949(M).

REMARKS.--Records good except those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--59 years (1916-75), 20.0 ft³/s (0.566 m³/s), 22.08 in/yr (561 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Mar. 19, 1936 (gage height, 6.30 ft or 1.920 m, from floodmarks), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurements at gage heights 5.62 and 6.30 ft (1.713 and 1.920 m); minimum, 0.2 ft³/s (0.006 m³/s) Sept. 4, 5, 1929.

Current year: Peak discharges above base of 160 ft³/s (4.53 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1915	379 10.7	4.06 1.237				
Apr. 4	0130	446 12.6	4.26 1.298				
Sept. 27	1015	*502 14.2	*4.42 1.347				

Minimum discharge, 1.4 ft³/s (0.040 m³/s) July 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	12	12	22	36	48	16	5.8	2.4	3.5	24
2	11	8.4	13	12	20	30	41	17	8.6	2.1	3.0	15
3	8.5	8.0	14	12	18	26	120	20	7.7	1.9	2.6	11
4	7.2	11	16	11	17	22	290	19	28	1.8	2.6	9.2
5	6.5	21	14	11	16	20	108	24	25	1.6	3.2	7.5
6	6.0	31	14	10	16	18	69	21	36	1.5	3.0	7.1
7	5.6	25	14	10	14	17	54	17	44	1.5	10	8.0
8	5.2	17	17	10	14	20	46	15	28	1.4	45	6.9
9	4.8	14	43	11	13	16	41	14	18	1.7	87	6.3
10	4.5	12	37	14	13	16	37	13	13	3.0	37	5.4
11	4.5	9.7	25	20	13	16	37	12	10	2.7	20	4.7
12	4.4	9.2	20	27	12	15	37	13	12	2.6	28	5.6
13	4.3	15	18	40	12	18	36	22	54	6.1	33	9.2
14	4.3	17	17	32	12	20	34	25	67	6.8	22	7.7
15	4.2	14	16	26	11	18	34	18	41	124	13	6.3
16	12	13	14	23	10	17	34	16	26	50	10	5.4
17	31	11	23	20	11	17	34	16	19	23	9.4	5.2
18	24	10	30	19	11	19	34	13	16	14	8.7	5.2
19	15	9.8	24	24	12	23	38	12	13	10	7.0	5.6
20	11	11	20	23	13	220	42	11	11	9.4	6.0	8.5
21	11	37	17	19	13	220	33	9.5	8.4	16	5.1	9.5
22	13	55	16	17	12	98	27	8.5	6.9	15	4.5	8.2
23	11	34	15	15	13	68	24	7.7	5.9	9.6	3.8	9.0
24	11	23	15	15	38	62	25	7.0	5.0	7.0	4.2	20
25	13	19	15	16	93	76	29	5.8	4.4	16	6.3	94
26	11	17	15	30	94	84	26	5.3	3.7	17	6.3	128
27	9.4	15	14	38	63	61	22	4.8	3.2	10	5.9	358
28	7.4	13	14	32	46	47	20	4.8	3.1	7.2	4.7	153
29	8.6	13	14	26	---	40	18	4.2	3.0	5.9	4.0	73
30	12	12	13	27	---	47	17	3.9	2.7	5.0	54	47
31	13	---	13	27	---	64	---	5.1	---	4.2	58	---
TOTAL	310.4	515.5	566	629	652	1471	1455	400.6	529.4	441.6	510.8	1063.5
MEAN	10.0	17.2	18.3	20.3	23.3	47.5	48.5	12.9	17.6	14.2	16.5	35.5
MAX	31	55	43	40	94	220	290	25	67	124	87	358
MIN	4.2	8.0	12	10	10	15	17	3.9	2.7	1.4	2.6	4.7
CFSM	.81	1.40	1.49	1.65	1.89	3.86	3.94	1.05	1.43	1.15	1.34	2.89
IN.	.94	1.56	1.71	1.90	1.97	4.45	4.40	1.21	1.60	1.34	1.54	3.22

CAL YR 1974 TOTAL 7197.13 MEAN 19.7 MAX 187 MIN .80 CFSM 1.60 IN 21.77
WTR YR 1975 TOTAL 8544.80 MEAN 23.4 MAX 358 MIN 1.4 CFSM 1.90 IN 25.84

01166500 MILLERS RIVER AT ERVING, MASS.

LOCATION.--Lat 42°35'51", long 72°26'19", Franklin County, on right bank 75 ft (23 m) downstream from bridge at Farley, 0.6 mi (1.0 km) upstream from Mormon Hollow Brook, 2.4 mi (3.9 km) downstream from Erving, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--375 mi² (971 km²).

PERIOD OF RECORD.--Discharge: August 1914 to current year.

Chemical analyses: Water years 1953, 1965-66 (partial-record station).

Water temperatures: Water years 1965-66 (partial-record station).

Sediment records: Water year 1966 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m) from topographic map. Prior to June 30, 1915, nonrecording gage, June 30, 1915, to Sept. 20, 1938, water-stage recorder, and Sept. 21 to Dec. 31, 1938, nonrecording gage, at site 2.2 mi (3.5 km) upstream at different datum. Jan. 1 to Mar. 29, 1939, nonrecording gage, and Mar. 30, 1939, to Sept. 12, 1941, water-stage recorder, at site 0.4 mi (0.6 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 641: 1920(M). WSP 756: Drainage area. WSP 781: 1928(M), 1933(M). WSP 1301: 1915(M).

REMARKS.--Records excellent except those for periods of no gage-height record, which are fair. Flow regulated by powerplants, Lake Monomonic and other reservoirs; high flow regulated by Birch Hill Reservoir 22 mi (35 km) upstream and Tully Reservoir (see p. 245); greater regulation by powerplants prior to 1966.

AVERAGE DISCHARGE.--61 years, 619 ft³/s (17.53 m³/s), 22.42 in/yr (569 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 29,000 (821 m³/s) Sept. 22, 1938 (gage height, 13.37 ft or 4.075 m, from floodmarks, site and datum then in use), mean of two slope-area measurements; practically no flow at times during 1915 and 1916 because of regulation; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 6, 1926.

Current year: Maximum discharge, about 4,800 ft³/s (136 m³/s) Sept. 27; minimum daily, 38 ft³/s (1.08 m³/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	695	239	444	453	844	1360	1600	665	220	86	230	776
2	648	219	473	453	705	1190	1470	628	264	103	186	596
3	538	213	750	455	595	1040	2310	632	261	139	167	427
4	420	239	820	445	496	905	3620	619	456	148	167	345
5	346	409	724	383	522	778	3470	675	568	53	167	306
6	323	664	681	337	533	744	3150	645	903	38	152	251
7	313	638	577	372	549	699	2630	586	1340	89	250	250
8	362	638	609	391	502	731	2000	538	1210	106	800	241
9	358	523	1140	402	522	669	1720	498	998	95	1440	227
10	316	438	1370	464	446	682	1530	448	729	93	1410	249
11	303	395	1380	516	430	644	1350	448	604	121	1210	247
12	295	356	1190	798	410	592	1290	454	547	71	1000	261
13	257	410	932	1050	400	625	1220	511	913	173	450	338
14	250	505	856	1110	390	696	1110	726	1300	785	760	328
15	227	553	823	983	380	685	1120	637	1200	1550	600	311
16	332	486	738	894	350	631	1130	611	1050	1330	500	282
17	468	415	806	776	370	644	1120	587	825	1110	400	241
18	695	386	893	635	380	682	1120	503	683	808	320	248
19	626	347	880	792	410	754	1080	333	616	740	240	308
20	548	331	769	833	430	2330	1140	358	495	677	210	278
21	465	657	712	670	440	2990	1110	339	371	868	189	271
22	411	1120	670	755	460	2550	1040	317	301	838	164	259
23	364	1060	634	625	499	2260	1010	297	261	705	137	254
24	335	912	592	604	843	2130	1030	274	232	504	146	491
25	301	814	576	583	1740	2380	1080	254	209	592	185	1670
26	286	690	530	843	2050	2470	1050	239	224	605	174	2600
27	284	602	509	979	1910	2110	989	225	200	516	178	4200
28	287	537	536	994	1670	1880	917	217	88	330	184	2900
29	258	530	507	915	---	1490	830	197	154	365	147	2900
30	287	478	483	946	---	1550	725	191	157	330	552	2750
31	252	---	456	913	---	1680	---	206	---	270	918	---
TOTAL	12050	15804	23060	21369	19286	40571	44961	13858	17380	14238	14173	24805
MEAN	389	527	744	689	689	1309	1499	447	579	459	457	827
MAX	695	1120	1380	1110	2050	2990	3620	726	1340	1550	1480	4200
MIN	227	213	444	337	360	592	725	191	88	38	137	227
MEAN†	369	531	745	690	693	1310	1508	444	579	461	462	952
CFSM†	.98	1.42	1.99	1.84	1.85	3.49	4.02	1.18	1.54	1.23	1.23	2.54
IN.†	1.13	1.58	2.29	2.12	1.93	4.03	4.49	1.36	1.72	1.42	1.42	2.83

CAL YR 1974 TOTAL 242770 MEAN 665 MAX 2840 MIN 39 MEAN† 659 CFSM† 1.76 IN† 23.86
WTR YR 1975 TOTAL 261555 MEAN 717 MAX 4200 MIN 38 MEAN† 727 CFSM† 1.94 IN† 26.33

† Adjusted for change in contents in Birch Hill and Tully Reservoirs.

NOTE.--No gage-height record Aug. 12-19, Sept. 26, 27, 30.

01167000 CONNECTICUT RIVER AT TURNERS FALLS, MASS.

LOCATION.--Lat 42°36'40", long 72°33'20", Franklin County, at dam of Western Massachusetts Electric Co., at Turners Falls, 0.2 mi (0.3 km) upstream from Fall River, and at mile 122.2 (196.6 km).

DRAINAGE AREA.--7,163 mi² (18,552 km²).

PERIOD OF RECORD.--Discharge: January 1915 to current year.

Chemical analyses: Water years 1973-74 (partial-record station).

Water temperatures: Water years 1973-74 (partial-record station).

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

REMARKS.--Discharge computed by adding flow over and through dam, flow for factories through canal that diverts around dam, and flow through power stations 1 and 2 of Western Massachusetts Electric Co. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 245), and other reservoirs (combined usable capacity, about 35,500,000,000 ft³ or 1,010,000,000 m³).

COOPERATION.--Records furnished by Western Massachusetts Electric Co.

AVERAGE DISCHARGE.--60 years, 11,770 ft³/s (333.3 m³/s), 22.31 in/yr (567 mm/yr), adjusted for storage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11900	6500	9240	5420	9230	11700	16700	23900	7190	2640	5630	3580
2	11500	3430	7350	7290	8040	10900	12600	27800	8210	3290	973	3540
3	10600	1840	11900	7110	7560	11900	21600	29000	9500	4260	1860	4060
4	10400	5870	11100	4890	8730	11900	28000	29500	11100	1320	5830	5960
5	9830	7140	11600	4890	7950	12500	23200	34200	9470	1720	4160	4060
6	3990	10100	10800	5350	9400	10200	18200	30100	13100	653	2410	4160
7	5680	10300	10000	7750	8990	11000	17000	27800	17400	3620	3490	1010
8	5670	10800	6800	6830	6940	10700	15200	26100	16800	2280	10100	5130
9	6300	8460	12200	8010	3750	7990	15400	24000	13200	1800	13900	3700
10	5240	5620	21900	8680	7290	7630	13100	19500	11900	2500	10400	3000
11	5640	7770	18100	9040	7380	7290	15700	16200	10500	2090	6590	2800
12	3400	7630	17200	9270	6910	9710	13000	13400	10500	2080	5510	4980
13	2580	10100	14300	12900	6180	10900	12300	16200	17000	5010	5000	2770
14	4650	10400	15400	11900	6730	10700	13600	18300	15800	14500	3980	1730
15	5500	9870	12500	11800	5230	10300	15200	17800	15600	15800	3200	5400
16	6670	10400	11000	11000	4600	5150	16800	16200	11700	12700	1040	5310
17	10700	9490	12300	11100	4640	9520	20300	16100	13400	11900	1990	4970
18	10300	7180	12300	6690	6660	9810	26600	13200	12600	10700	2100	5900
19	7910	8920	13800	1600	6860	10500	33200	11200	10600	6170	1740	6860
20	4100	8930	9300	7380	7110	26800	48000	10100	7700	2390	1920	8130
21	9110	14700	9780	8920	6890	42100	59300	11700	5060	7540	1730	6920
22	7640	25200	8680	7020	6120	44000	53800	12200	3700	9610	3210	6830
23	5630	18900	7970	4830	5200	31200	45900	11200	6340	7740	1110	10200
24	6130	10500	8640	6230	7650	30300	41400	11400	6370	7010	364	10800
25	6090	14000	8390	6870	18700	30100	46600	8240	3350	5090	1570	13200
26	4260	16900	7530	9590	19800	34900	49400	4410	2990	4540	1980	18600
27	3040	12500	10700	9980	17700	28900	43400	5790	3260	3990	6440	32100
28	5000	14100	8680	10200	16000	23000	34100	6750	1720	2880	2200	29100
29	5710	14400	3650	11100	---	22300	25200	7630	1860	4080	3010	27300
30	5260	8920	7210	10700	---	19300	23200	5990	3120	3560	9440	19600
31	5400	---	10300	10600	---	17800	---	6950	---	3410	9550	---
TOTAL	205870	310920	340620	254940	238240	541000	818000	512860	281040	166873	132427	261700
MEAN	6641	10360	10990	8224	8509	17450	27270	16540	9368	5383	4272	8723
MAX	11900	25200	21900	12900	19800	44000	59300	34200	17400	15800	13900	32100
MIN	2580	1890	3650	1600	3750	5150	12300	4410	1720	653	364	1010
MEAN†	6136	10520	10660	7545	7329	16090	28620	19000	9382	5480	4234	9112
CFSM†	.86	1.47	1.49	1.05	1.02	2.25	4.00	2.65	1.31	.77	.59	1.27
IN.†	.99	1.64	1.72	1.21	1.07	2.59	4.46	3.06	1.46	.88	.68	1.42
CAL YR 1974 TOTAL	4954657			13570	MAX 68300	MIN 977		MEAN† 13470		CFSM† 1.88	IN† 25.53	
WTR YR 1975 TOTAL	4064490			11140	MAX 59300	MIN 364		MEAN† 11170		CFSM† 1.56	IN† 21.18	

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Tully Reservoir on East Branch Tully River listed on page 245.

01167800 BEAVER BROOK AT WILMINGTON, VT.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, on right bank 20 ft (6 m) downstream from bridge on State Highway 9, 1.0 mi (1.6 km) southeast of Wilmington, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--6.38 mi² (16.52 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1972: 1963(M), 1964(P), 1967-68(P), 1969-70, 1971(P).

REMARKS.--Records poor October to December, fair January to March, and good thereafter. Recording rain gage at station April 1964 to November 1974 (no winter records).

AVERAGE DISCHARGE.--12 years, 15.4 ft³/s (0.436 m³/s), 32.78 in/yr (833 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 30, 1973 (gage height, 8.61 ft or 2.624 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 8.73 ft (2.661 m) Jan. 19, 1965 (ice jam); minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 1, 1965.

Current year: Peak discharges above base of 230 ft³/s (6.51 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)				
Feb. 25	0215	-	-	†5.55	1.692	Aug. 30	0600	*331	9.37	4.81	1.466
Apr. 19	1700	290	8.21	4.59	1.399	Sept. 27	0030	282	7.99	4.54	1.384
July 14	1615	323	9.15	4.77	1.454						

† Ice jam.

Minimum discharge, 1.4 ft³/s (0.040 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	9.4	9.4	5.5	12	15	15	36	5.6	3.2	2.3	11
2	18	8.5	11	5.3	11	14	14	35	4.8	2.7	1.9	8.6
3	13	8.2	10	5.0	10	13	38	31	5.1	2.3	1.7	8.1
4	10	14	8.7	4.7	9.0	12	46	37	19	2.1	2.1	6.2
5	9.4	21	8.0	4.5	9.0	11	25	48	10	1.9	3.4	5.3
6	8.1	23	8.0	4.5	9.0	10	15	30	58	1.7	2.3	5.6
7	7.3	15	8.0	4.7	8.6	9.0	13	23	26	1.6	28	5.6
8	6.9	12	35	5.1	8.2	9.0	11	20	14	1.6	101	4.5
9	6.5	10	32	5.4	7.8	9.0	9.4	16	9.4	2.3	33	4.2
10	6.5	9.4	18	5.4	7.4	8.5	9.8	14	7.3	3.0	11	3.6
11	6.5	9.0	14	10	7.0	8.1	10	12	6.2	2.1	7.3	3.6
12	6.5	11	11	21	6.5	6.9	12	20	20	1.9	5.9	6.5
13	6.2	28	10	14	6.2	10	11	87	71	57	4.8	6.5
14	6.5	17	10	11	6.0	8.5	14	55	46	84	3.6	4.8
15	8.1	15	10	9.5	5.8	8.0	19	29	20	48	3.0	4.2
16	47	13	11	8.0	5.6	7.2	30	27	14	16	2.8	3.9
17	48	12	15	7.0	5.5	6.9	59	19	12	8.6	2.8	3.9
18	23	11	11	6.6	5.5	7.3	81	16	9.8	5.6	2.8	3.6
19	18	11	8.5	6.6	5.4	8.6	191	14	7.3	4.5	2.3	11
20	15	17	7.4	6.2	5.3	173	126	12	6.2	5.9	2.1	17
21	12	45	7.0	5.8	5.3	91	72	9.0	5.6	13	1.7	7.7
22	11	23	6.8	5.6	5.6	50	54	6.5	6.2	6.2	2.1	5.6
23	9.4	17	6.8	5.4	6.9	33	64	7.7	5.1	4.8	1.9	11
24	8.6	16	6.8	5.0	50	32	134	7.3	4.2	3.4	2.3	23
25	8.2	18	6.6	9.0	70	49	123	5.3	3.4	28	3.0	21
26	10	15	6.4	30	35	43	98	5.1	2.8	8.1	4.2	107
27	8.6	13	6.2	16	22	37	60	4.8	2.7	5.3	3.2	134
28	8.0	11	6.0	12	18	29	38	4.8	2.3	3.9	2.3	41
29	7.4	10	5.8	15	---	23	33	4.2	3.6	3.2	2.3	22
30	7.0	9.6	5.7	20	---	20	35	4.2	6.9	2.8	105	14
31	9.0	---	5.6	15	---	17	---	5.6	---	2.5	23	---
TOTAL	385.7	452.1	325.7	288.8	363.6	779.0	1460.2	645.5	414.5	337.2	375.1	574.0
MEAN	12.4	15.1	10.5	9.32	13.0	25.1	48.7	20.8	13.8	10.9	12.1	19.1
MAX	48	45	35	30	70	173	191	87	71	84	105	134
MIN	6.2	8.2	5.6	4.5	5.3	6.9	9.4	4.2	2.3	1.6	1.7	3.6
CFSM	1.94	2.37	1.65	1.46	2.04	3.93	7.63	3.26	2.16	1.71	1.90	2.99
IN.	2.25	2.64	1.90	1.68	2.12	4.54	8.51	3.76	2.42	1.97	2.19	3.35

CAL YR 1974 TOTAL 5033.61 MEAN 13.8 MAX 210 MIN .82 CFSM 2.16 IN 29.35
WTR YR 1975 TOTAL 6401.40 MEAN 17.5 MAX 191 MIN 1.6 CFSM 2.74 IN 37.32

NOTE.--Backwater from beaver dam Oct. 21 to Jan. 24.

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: August 1972 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 191 micromhos Feb. 22, 1974; minimum recorded, 22 micromhos Nov. 30, 1974, but may have been lower during period of no record in November 1974.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 10, 1973, June 10, 1974, July 8, Aug. 2, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 114 micromhos July 9; minimum recorded, 22 micromhos Nov. 30, but may have been lower during period of no record in November.

WATER TEMPERATURES: Maximum, 25.5°C July 8, Aug. 2; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	57	45	50	68	50	56	58	23	31	57	53	54
2	56	45	49	62	43	51	58	29	35	54	53	54
3	54	45	47	66	42	48	50	31	38	56	54	54
4	63	44	50	51	44	47	45	28	34	54	54	54
5	70	46	54	46	41	43	67	29	41	57	54	55
6	72	49	57	47	40	42	53	36	42	58	55	56
7	57	49	53	56	37	42	53	38	40	56	54	55
8	71	48	55	56	36	41	---	---	---	56	54	55
9	76	49	58	59	35	42	---	---	---	60	56	57
10	62	52	57	61	30	44	54	32	37	61	58	59
11	82	54	62	72	41	53	67	36	45	64	59	60
12	67	53	60	54	45	49	62	38	47	63	55	59
13	78	55	62	50	39	45	81	45	56	56	52	53
14	62	53	58	56	39	48	87	42	60	55	51	52
15	63	58	61	68	43	46	50	42	45	57	55	55
16	58	46	53	66	51	56	48	45	46	64	51	57
17	53	44	47	74	23	42	50	46	48	70	60	64
18	59	44	48	51	37	40	52	48	49	70	61	66
19	62	47	52	71	50	55	51	49	50	70	56	62
20	58	50	53	57	52	54	55	50	52	---	---	---
21	71	45	57	57	45	50	53	50	52	---	---	---
22	81	52	60	---	---	---	54	52	53	---	---	---
23	80	50	59	---	---	---	57	52	53	---	---	---
24	82	49	59	---	---	---	60	55	57	---	---	---
25	58	51	56	---	---	---	55	51	53	---	---	---
26	72	54	59	---	---	---	54	51	52	---	---	---
27	82	56	62	---	---	---	55	52	54	---	---	---
28	77	48	62	---	---	---	56	54	55	---	---	---
29	83	55	63	---	---	---	56	54	55	---	---	---
30	75	55	63	67	22	32	59	55	57	---	---	---
31	68	54	60	---	---	---	57	54	55	---	---	---
MONTH	83	44	56	---	---	---	87	23	48	---	---	---

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	58	57	58	58	56	57	43	42	43
2	---	---	---	60	58	59	60	56	58	43	42	43
3	---	---	---	60	59	60	64	56	59	44	42	43
4	---	---	---	64	60	61	61	57	58	43	41	42
5	---	---	---	62	60	61	60	58	59	42	42	42
6	---	---	---	71	60	61	62	59	60	45	43	44
7	---	---	---	75	60	65	63	60	62	47	44	46
8	---	---	---	78	62	70	64	60	62	50	48	49
9	---	---	---	74	65	70	66	62	64	52	48	50
10	---	---	---	67	64	66	69	64	67	53	50	51
11	---	---	---	66	64	64	70	66	69	54	52	52
12	56	49	55	109	63	69	72	68	70	54	48	53
13	56	55	56	77	68	72	73	69	72	47	43	46
14	57	54	56	79	68	74	74	69	72	46	44	45
15	58	55	57	77	65	67	71	67	69	49	45	47
16	62	56	58	71	65	68	69	60	66	49	44	46
17	68	57	61	73	65	69	64	53	59	51	46	48
18	64	57	60	74	69	71	54	50	52	51	49	50
19	77	58	65	76	71	73	50	44	47	55	50	52
20	76	63	70	72	51	58	47	44	46	59	55	58
21	79	67	71	52	50	51	48	46	47	61	58	60
22	73	65	69	62	52	54	49	47	48	63	59	60
23	77	70	73	62	57	59	49	45	47	64	58	61
24	74	66	71	61	59	60	44	42	44	64	58	60
25	65	59	62	---	---	---	43	41	42	67	64	65
26	59	54	56	---	---	---	43	41	42	69	64	66
27	54	52	53	52	49	51	43	42	43	70	67	68
28	57	53	55	53	51	52	45	43	44	75	68	72
29	---	---	---	54	52	53	46	44	45	77	74	75
30	---	---	---	57	53	55	45	43	44	79	75	77
31	---	---	---	59	54	56	---	---	---	77	70	74
MONTH	---	---	---	109	49	62	74	41	56	79	41	54
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	73	64	67	78	66	72	85	81	83	56	50	52
2	71	65	67	87	79	82	93	85	90	56	54	55
3	73	69	72	91	86	88	97	90	93	59	55	56
4	66	50	55	95	90	92	91	80	86	64	59	60
5	63	51	59	100	93	96	79	69	72	69	61	66
6	51	40	46	103	99	101	78	73	76	72	62	67
7	52	46	49	106	101	103	76	43	52	66	63	64
8	58	51	54	109	104	106	47	39	43	69	65	67
9	62	58	60	114	84	104	46	43	45	76	69	71
10	65	62	63	94	82	88	50	46	47	92	75	78
11	68	62	64	99	91	95	55	50	52	79	72	76
12	69	41	57	98	96	97	58	54	56	76	60	68
13	43	39	41	95	38	58	65	59	61	66	61	63
14	44	39	41	52	35	44	70	64	67	73	67	69
15	45	42	43	45	39	42	73	65	68	81	72	74
16	45	44	45	50	45	47	78	73	76	79	75	77
17	50	44	46	56	51	53	80	76	78	81	76	78
18	53	49	51	63	56	59	79	73	76	80	77	79
19	57	53	55	66	62	64	83	77	79	80	54	71
20	59	55	57	68	54	62	86	83	84	64	55	60
21	64	59	61	55	48	51	88	85	86	70	64	67
22	69	64	66	61	54	57	85	79	85	77	71	74
23	74	68	70	67	62	63	84	81	82	76	62	68
24	74	70	74	70	64	67	85	68	79	68	57	66
25	80	75	77	61	45	53	72	66	68	---	---	---
26	84	80	82	63	58	60	68	58	62	---	---	---
27	91	85	88	67	63	65	72	65	69	---	---	---
28	97	89	93	72	67	69	76	73	75	---	---	---
29	97	62	90	77	70	73	80	70	78	---	---	---
30	64	54	59	78	75	76	71	37	45	---	---	---
31	---	---	---	82	78	79	51	45	47	---	---	---
MONTH	97	39	62	114	35	73	97	37	70	92	50	68
YEAR	114	22	60									

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	7.5	8.5	11.5	9.0	10.5	0.0	0.0	0.0	0.5	0.5	0.5
2	9.5	8.0	8.5	11.5	7.5	10.0	0.0	0.0	0.0	0.5	0.0	0.5
3	8.0	6.5	7.0	7.5	5.0	6.5	0.5	0.0	0.5	0.5	0.0	0.5
4	7.5	5.5	6.5	9.0	7.0	8.0	0.0	0.0	0.0	0.5	0.0	0.5
5	9.0	5.5	7.5	8.0	7.0	7.5	0.0	0.0	0.0	0.5	0.0	0.0
6	11.5	7.5	9.5	7.5	7.0	7.5	0.0	0.0	0.0	0.5	0.0	0.0
7	10.0	8.0	9.0	7.5	6.0	7.0	0.0	0.0	0.0	0.5	0.0	0.5
8	8.0	5.5	7.0	6.5	4.5	5.5	1.0	0.0	0.5	0.5	0.0	0.5
9	7.5	5.0	6.5	6.0	4.0	5.0	1.0	0.0	1.0	0.5	0.0	0.0
10	7.0	6.0	6.5	4.5	2.5	3.5	0.5	0.0	0.0	0.5	0.0	0.0
11	8.0	5.0	6.5	4.5	2.0	3.5	1.0	0.5	0.5	0.5	0.0	0.5
12	9.0	5.5	7.0	5.5	4.0	4.5	1.0	0.5	0.5	0.5	0.0	0.0
13	9.5	7.0	8.0	6.0	4.0	5.5	1.5	0.5	1.0	0.5	0.0	0.0
14	8.0	6.5	7.0	5.5	3.5	4.5	1.5	0.5	1.0	0.0	0.0	0.0
15	10.0	8.5	9.0	5.0	2.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
16	8.5	7.5	8.0	2.5	1.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0
17	8.5	7.0	7.5	2.5	1.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
18	7.5	4.0	6.0	4.0	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
19	4.5	2.5	3.5	4.5	3.5	4.0	0.5	0.0	0.5	0.0	0.0	0.0
20	3.5	2.5	3.0	4.5	3.0	4.0	1.0	0.5	0.5	0.5	0.0	0.0
21	3.0	1.0	2.0	4.5	2.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0
22	4.5	2.0	3.5	2.5	0.0	1.0	1.0	0.0	0.5	0.5	0.0	0.0
23	6.5	4.0	5.0	1.0	0.0	0.5	1.0	0.5	1.0	0.5	0.0	0.0
24	5.0	3.0	4.0	2.5	0.5	2.0	1.5	0.5	1.0	0.5	0.0	0.5
25	4.5	2.5	3.5	3.5	2.0	3.0	1.0	0.0	0.5	0.0	0.0	0.0
26	5.0	3.5	4.5	1.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
27	5.5	3.5	4.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
28	3.5	1.0	2.5	1.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0
29	5.5	2.0	4.0	1.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
30	8.0	5.0	6.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
31	10.5	8.0	9.0	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0
MONTH	11.5	1.0	6.0	11.5	0.0	4.0	1.5	0.0	0.5	0.5	0.0	0.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.0	0.5	1.0	2.5	0.5	1.5	6.0	2.5	4.5
2	0.5	0.0	0.0	1.0	0.5	0.5	3.5	0.5	2.0	4.5	3.5	4.0
3	0.5	0.0	0.0	0.5	0.5	0.5	1.5	0.5	0.5	8.5	2.0	5.0
4	0.5	0.0	0.0	0.5	0.5	0.5	1.5	0.5	1.0	4.5	3.5	4.0
5	---	---	---	0.5	0.5	0.5	2.0	0.5	1.0	7.5	3.0	3.5
6	---	---	---	0.5	0.5	0.5	3.0	0.5	1.5	9.0	3.5	6.0
7	---	---	---	1.0	0.5	0.5	3.0	0.5	1.5	11.0	5.5	7.5
8	---	---	---	1.0	0.5	0.5	3.5	0.5	1.5	10.0	5.5	7.5
9	---	---	---	0.5	0.5	0.5	4.5	0.5	2.0	11.5	4.5	8.0
10	---	---	---	0.5	0.5	0.5	5.0	0.5	2.5	11.5	7.0	9.0
11	---	---	---	0.5	0.5	0.5	6.0	0.5	2.5	13.0	6.0	9.5
12	0.5	0.5	0.5	0.5	0.5	0.5	5.5	0.5	2.5	13.0	8.5	10.5
13	0.5	0.5	0.5	1.0	0.5	0.5	3.5	0.5	1.5	11.5	9.5	10.5
14	0.5	0.5	0.5	1.0	0.5	0.5	6.5	0.5	3.0	13.5	8.0	10.5
15	0.5	0.5	0.5	1.0	0.5	0.5	5.0	0.5	2.5	15.0	9.5	12.0
16	0.5	0.5	0.5	1.5	0.5	1.0	5.5	1.5	3.0	14.0	11.0	12.0
17	0.5	0.5	0.5	2.5	0.5	1.0	6.0	1.5	3.0	16.0	9.0	12.5
18	0.5	0.5	0.5	2.5	0.5	1.0	3.5	1.0	2.0	16.5	10.5	13.5
19	0.5	0.5	0.5	2.0	0.5	1.5	2.0	1.0	1.5	18.5	12.0	15.0
20	1.0	0.5	0.5	1.0	0.5	1.0	3.0	1.0	2.0	20.5	13.0	16.5
21	1.0	0.5	1.0	1.5	0.5	1.0	4.5	0.5	2.0	20.0	14.5	17.0
22	1.5	0.5	1.0	1.5	0.5	1.0	5.5	0.0	2.0	20.0	15.0	17.5
23	1.5	0.5	1.0	3.0	1.0	1.5	6.0	0.5	3.0	21.0	15.5	18.5
24	0.5	0.5	0.5	1.5	0.5	1.0	3.0	2.0	2.5	22.5	16.5	19.5
25	1.0	0.5	0.5	---	---	---	5.0	2.0	3.0	17.0	13.0	15.0
26	1.0	0.5	0.5	---	---	---	5.0	2.5	3.5	18.5	11.5	15.0
27	1.0	0.5	0.5	1.0	0.5	0.5	4.5	1.5	3.0	17.5	15.0	16.0
28	1.5	0.5	1.0	1.5	0.5	1.0	5.0	0.5	2.5	19.5	13.5	16.0
29	---	---	---	1.5	0.5	1.0	7.0	0.5	3.5	20.0	12.5	16.0
30	---	---	---	2.5	0.5	1.5	8.5	1.5	5.0	15.0	13.0	14.5
31	---	---	---	2.5	0.5	1.0	---	---	---	19.0	14.0	16.0
MONTH	---	---	---	3.0	0.5	1.0	8.5	0.0	2.5	22.5	2.0	11.5

01168151 DEERFIELD RIVER NEAR ROWE, MASS.

LOCATION.--Lat 42°40'57", long 72°58'37", Franklin County, on left bank 0.1 mi (0.2 km) downstream from Fife Brook, 1.2 mi (1.9 km) northeast of Hoosac Tunnel, and 4 mi (6 km) west of Rowe.

DRAINAGE AREA.--254 mi² (658 km²).

PERIOD OF RECORD.--Discharge: May 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 745.00 ft (227.076 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Somerset and Harriman Reservoirs (combined usable capacity, 7,560,000,000 ft³ or 214,000,000 m³) and by powerplants above station.

EXTREMES.--Period of record: Maximum discharge, 3,660 ft³/s (104 m³/s) Aug. 8, 1975 (gage height, 8.57 ft or 2.612 m); minimum daily, 42 ft³/s (1.19 m³/s) Feb. 17, 1975.
Current year: Maximum discharge, 3,660 ft³/s (104 m³/s) Aug. 8 (gage height, 8.57 ft or 2.612 m); minimum daily, 42 ft³/s (1.19 m³/s) Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	795	204	46	1030	1090	880	1110	88	242	753	1190
2	1280	338	669	527	1000	740	904	951	561	288	432	938
3	1280	43	687	173	1040	1000	1160	841	352	263	112	944
4	1230	798	648	46	1010	880	1340	753	566	108	363	967
5	1340	1230	474	44	1010	1000	957	1040	750	101	829	1010
6	1320	1390	395	615	1060	900	801	616	1140	96	384	1050
7	1110	1310	543	468	1010	1100	815	415	1620	195	1070	448
8	1240	1100	483	308	929	1000	994	725	1310	106	2930	762
9	1260	999	1210	394	585	999	980	750	1230	277	2070	601
10	1250	757	1080	584	642	910	966	868	911	517	1820	511
11	1100	800	1150	577	934	731	1100	157	797	199	1500	515
12	742	1010	1170	791	635	1020	1300	501	800	180	1350	699
13	106	1050	1180	1060	958	910	1210	1400	1800	1650	1350	518
14	578	1210	1020	968	825	778	1060	2180	2290	1420	1180	101
15	607	1410	962	974	162	434	872	1050	1350	1590	607	508
16	827	930	1050	940	106	173	751	1080	1360	1390	199	463
17	1040	47	1050	674	42	617	1150	1160	1320	1200	96	561
18	906	688	975	800	636	710	1410	613	1210	1020	624	636
19	985	346	985	396	902	592	1630	765	1140	459	517	677
20	539	618	947	704	870	1710	1560	793	873	143	536	689
21	700	1520	735	738	771	1230	1340	745	120	990	515	272
22	792	1220	303	893	467	848	1200	789	100	689	617	778
23	941	1220	720	966	159	973	796	797	616	563	110	961
24	971	1400	909	699	1010	1130	1170	332	539	959	98	1330
25	842	1280	798	284	1490	933	1960	111	352	1070	580	1610
26	673	1320	516	484	1180	1230	2220	102	183	644	478	2100
27	638	1170	521	782	825	1000	1480	444	277	180	669	2290
28	713	703	368	1050	987	935	1050	342	141	600	521	1440
29	974	796	200	1050	---	325	598	175	104	578	555	1350
30	741	213	445	1090	---	540	726	208	102	577	2010	1330
31	782	---	353	1270	---	743	---	72	---	807	1650	---
TOTAL	28847	27711	22750	20395	22275	27181	34380	21885	24002	19101	26525	27249
MEAN	931	924	734	658	796	877	1146	706	800	616	856	908
MAX	1340	1520	1210	1270	1490	1710	2220	2180	2290	1650	2930	2290
MIN	106	43	200	44	42	173	598	72	88	96	96	101
MEAN†	441	841	610	509	638	973	1894	1304	785	550	762	894
CFSM†	1.74	3.31	2.40	2.00	2.51	3.83	7.46	5.13	3.09	2.17	3.00	3.52
IN.†	2.00	3.70	2.77	2.31	2.62	4.42	8.32	5.92	3.45	2.50	3.46	3.93

WTR YR 1975 TOTAL 302301 MEAN 828 MAX 2930 MIN 42 MEAN† 849 CFSM† 3.34 IN† 45.39

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

01168500 DEERFIELD RIVER AT CHARLEMONT, MASS.

LOCATION.--Lat 42°37'33", long 72°51'20", Franklin County, on left bank 0.8 mi (1.3 km) east of Charlemont, 2.5 mi (4.0 km) downstream from Chickley River, and at mile 24.5 (39.4 km).

DRAINAGE AREA.--362 mi² (938 km²).

PERIOD OF RECORD.--Discharge: June 1913 to current year.

Chemical analyses: Water years 1954-55, 1958, 1967-69 (partial-record station).

Water temperatures: Water years 1954, 1958, 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft (157.691 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 781: 1915(M). WSP 1301: 1918(M).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 245), and by several powerplants above station.

AVERAGE DISCHARGE.--62 years, 891 ft³/s (25.23 m³/s) 33.42 in/yr (849 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 56,300 ft³/s (1,590 m³/s) Sept. 21, 1938 (gage height, 20.17 ft or 6.148 m, from floodmarks), from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of slope-area and contracted-opening measurements at gage heights 17.75 and 20.17 ft (5.410 and 6.148 m); minimum daily, 5 ft³/s (0.14 m³/s) June 17, 1921.

Current year: Maximum discharge, 6,440 ft³/s (182 m³/s) Aug. 8 (gage height, 6.65 ft or 2.027 m); minimum daily, 145 ft³/s (4.11 m³/s) Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1510	847	370	350	1260	1520	1250	1420	216	325	773	1360		
2	1410	640	820	470	1220	1110	1400	1390	581	359	451	1050		
3	1370	145	900	330	1220	1350	2340	1200	558	325	269	996		
4	1250	670	900	300	1150	1150	2830	1060	1140	183	491	1040		
5	1410	1480	1000	150	1100	1100	1970	1680	906	166	909	1020		
6	1380	1790	700	560	1150	1000	1430	1060	2180	156	451	1090		
7	1170	1540	720	250	1150	1150	1400	776	2180	225	929	596		
8	1250	1320	1050	640	1100	1200	1570	760	1640	189	4740	749		
9	1300	1140	2300	500	760	1100	1500	930	1440	280	3320	760		
10	1270	908	1600	760	720	1050	1470	1100	1120	509	2070	594		
11	1150	849	1450	760	1050	850	1440	501	889	338	1900	555		
12	843	1110	1400	1250	960	1220	1580	659	1040	224	1640	773		
13	303	1620	1400	1350	800	1110	1540	2110	3240	1530	1430	559		
14	465	1540	1250	1200	960	967	1420	3080	3330	2230	1380	288		
15	668	1680	1150	1150	360	721	1250	1540	1900	2030	1050	556		
16	1050	1300	1150	1000	290	370	1140	1470	1720	1720	323	509		
17	1440	380	1250	820	220	839	1840	1480	1580	1250	220	587		
18	1080	748	1200	970	490	768	2280	881	1550	1280	604	653		
19	1080	537	1100	680	1050	842	3220	972	1350	902	675	650		
20	815	777	1150	760	980	4380	3060	954	1020	287	563	968		
21	695	2440	1000	760	860	2820	2280	890	451	773	556	500		
22	887	1900	450	1030	680	1760	1870	885	263	1050	671	677		
23	1030	1550	740	1100	470	1610	1570	964	683	691	224	974		
24	1020	1650	1100	818	1650	1870	2030	576	562	734	180	1570		
25	882	1600	1000	553	3090	1980	2890	275	547	1600	560	2830		
26	829	1550	620	964	2120	2230	3010	227	279	1100	499	3450		
27	650	1350	780	1030	1360	1730	2340	496	352	387	653	4180		
28	774	1100	480	1270	1520	1670	1460	408	201	668	680	2240		
29	1040	800	470	1290	---	934	1060	322	236	557	584	1740		
30	825	550	450	1530	---	982	965	308	269	621	2740	1620		
31	810	---	520	1580	---	1320	---	195	---	834	1930	---		
TOTAL	31656	35511	30470	26175	29740	42703	55405	30569	33423	23523	33465	35134		
MEAN	1021	1184	983	844	1062	1378	1847	986	1114	759	1080	1171		
MAX	1510	2440	2300	1580	3090	4380	3220	3080	3330	2230	4740	4180		
MIN	303	145	370	150	220	370	965	195	201	156	180	288		
MEAN†	532	1101	859	696	905	1474	2595	1584	1099	693	986	1157		
CFSM†	1.47	3.04	2.37	1.92	2.50	4.07	7.17	4.38	3.04	1.91	2.72	3.20		
IN.†	1.69	3.39	2.74	2.22	2.60	4.69	8.00	5.05	3.39	2.21	3.14	3.57		
CAL YR 1974	TOTAL	378505	MEAN	1037	MAX	4700	MIN	135	MEAN†	948	CFSM†	2.62	IN†	35.57
WTR YR 1975	TOTAL	407774	MEAN	1117	MAX	4740	MIN	145	MEAN†	1138	CFSM†	3.14	IN†	42.69

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

NOTE.--No gage-height record Nov. 22 to Jan. 21.

01169000 NORTH RIVER AT SHATTUCKVILLE, MASS.

LOCATION.--Lat 42°38'18", long 72°43'32", Franklin County, on right bank in Shattuckville, 1.2 mi (1.9 km) south of Griswoldville and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--88.4 mi² (229.0 km²).

PERIOD OF RECORD.--Discharge: October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1957, 1967-69 (partial-record station).

Water temperatures: Water years 1957, 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft (139.708 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1111: 1945(M).

REMARKS.--Records good except those for winter period, which are fair. Diurnal fluctuation at times caused by mill above station; because storage capacity is small, daily flows are not affected appreciably. Prior to 1959, greater regulation by mill.

AVERAGE DISCHARGE.--36 years, 180 ft³/s (5.098 m³/s), 27.65 in/yr (702 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 13,200 ft³/s (374 m³/s) Oct. 15, 1955 (gage height, 10.37 ft or 3.161 m), from rating curve extended above 5,700 ft³/s (161 m³/s) on basis of computation of flow over dam at gage height 9.62 ft (2.932 m); minimum daily, 5.1 ft³/s (0.14 m³/s) Oct. 3, 1948.

Current year: Peak discharges above base of 2,200 ft³/s (62.3 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 20	1430	3,050	86.4	6.49	1.978	Aug. 30	0730	2,760	78.2	6.29	1.917
Apr. 3	1945	3,020	85.5	6.47	1.972	Sept. 25	1645	2,250	63.7	5.91	1.801
June 13	0645	2,450	69.4	6.06	1.847	Sept. 26	2400	3,320	94.0	6.67	2.033
July 14	1715	*6,130	174	*8.16	2.487						

Minimum discharge, 30 ft³/s (0.85 m³/s) Oct. 12; minimum daily, 30 ft³/s (0.91 m³/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	75	105	104	210	265	328	266	82	98	58	138
2	87	56	135	96	175	234	344	286	76	73	53	99
3	75	51	154	83	165	218	1160	296	149	61	49	83
4	67	127	121	104	140	190	1220	287	416	55	69	71
5	58	262	105	87	150	180	586	434	192	50	105	62
6	52	339	100	80	149	166	452	287	704	45	69	65
7	49	179	47	88	140	165	386	235	396	42	147	60
8	65	136	450	94	140	183	343	199	236	40	868	52
9	46	132	605	99	130	143	313	178	174	47	358	54
10	42	105	289	108	120	150	308	172	151	47	170	48
11	36	91	213	150	115	154	333	166	135	42	121	43
12	32	102	187	305	110	139	350	179	258	41	123	50
13	44	343	182	231	105	168	339	815	1440	738	96	80
14	41	208	171	179	100	167	326	706	781	1680	79	60
15	36	188	154	150	100	151	400	346	399	757	65	50
16	96	155	132	135	100	142	474	291	308	307	59	42
17	246	129	177	120	100	151	686	261	265	197	58	38
18	140	122	173	100	99	164	759	204	229	168	58	50
19	114	113	147	150	107	189	1270	178	215	120	50	200
20	81	184	138	133	113	2420	1110	154	163	137	45	120
21	74	719	131	105	104	1330	718	136	159	213	41	90
22	67	395	129	100	100	675	511	122	120	140	41	80
23	64	243	122	95	121	561	482	117	104	104	39	109
24	52	209	121	105	495	571	733	106	86	89	42	254
25	56	203	124	136	1150	707	714	90	80	396	53	1020
26	83	173	103	468	608	705	564	85	72	186	50	1310
27	61	130	105	279	347	452	435	80	66	121	51	1820
28	56	140	125	210	305	393	347	75	64	98	41	560
29	53	135	120	194	---	363	295	65	99	83	36	356
30	51	110	115	347	---	407	273	63	235	72	1020	271
31	72	---	110	260	---	378	---	86	---	63	262	---
TOTAL	2231	5559	5142	4895	5838	12281	16559	6965	7854	6310	4426	7336
MEAN	72.0	185	166	158	209	396	552	225	262	204	143	245
MAX	286	719	605	468	1150	2420	1270	815	1440	1680	1020	1820
MIN	32	51	97	80	99	139	273	63	64	40	36	38
CFSM	.81	2.09	1.88	1.79	2.36	4.48	6.24	2.55	2.96	2.31	1.62	2.77
IN.	.94	2.34	2.16	2.06	2.46	5.17	6.97	2.93	3.31	2.66	1.86	3.09

CAL YR 1974 TOTAL 71396 MEAN 196 MAX 2030 MIN 15 CFSM 2.22 IN 30.04
WTR YR 1975 TOTAL 85396 MEAN 234 MAX 2420 MIN 32 CFSM 2.65 IN 35.94

01169900 SOUTH RIVER NEAR CONWAY, MASS.

LOCATION.--Lat 42°32'31", long 72°41'39", Franklin County, on left bank at upstream side of Reeds Bridge just off Bardwell Road, 2.2 mi (3.5 km) north of Conway, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

RECORDS AVAILABLE.--Discharge: June 1966 to current year.

Chemical analyses: Water years 1967-69 (partial-record station).

Water temperatures: Water years 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (140 m) from topographic map. Prior to Oct. 7, 1970, at downstream side of bridge at same site and datum.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1973: 1968-70(P), 1971(M), 1972(P).

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--9 years, 54.5 ft³/s (1.543 m³/s), 30.84 in/yr (783 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 2,480 ft³/s (70.2 m³/s) Dec. 21, 1973 (gage height, 7.77 ft or 2.368 m), from rating curve extended above 390 ft³/s (11.0 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft³/s (0.085 m³/s) Aug. 21, 22, Sept. 2, 3, 1966.

Current year: Peak discharges above base of 660 ft³/s (18.7 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Mar. 20	0615	1,860	52.7	7.01	2.137	Aug. 8	1330	1,190	33.7	6.05	1.844
Apr. 3	1800	*1,980	56.1	*7.16	2.182	Sept. 26	1545	1,020	28.9	5.77	1.759
July 14	1630	1,130	32.0	5.95	1.814						

Minimum discharge, 9.2 ft³/s (0.26 m³/s) July 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	31	35	62	78	113	67	23	16	14	30
2	17	15	46	34	56	74	108	66	22	14	13	26
3	16	23	45	30	52	69	700	74	40	13	38	24
4	14	43	36	35	45	64	289	70	90	12	34	21
5	13	62	29	29	56	64	159	100	42	11	33	18
6	13	38	28	26	60	62	137	78	144	9.8	22	19
7	13	30	29	28	50	58	122	64	63	9.4	101	18
8	12	26	160	30	46	71	113	54	43	4.6	601	16
9	12	24	42	32	42	61	105	50	35	15	135	16
10	12	24	57	35	39	62	107	48	30	15	73	14
11	11	23	51	50	37	57	110	47	26	12	58	13
12	11	58	49	81	35	54	107	50	60	12	53	19
13	11	60	49	62	34	62	101	100	210	122	43	20
14	11	38	47	54	32	61	96	125	159	269	38	15
15	12	37	45	48	32	57	102	100	72	94	31	13
16	41	32	39	44	32	56	105	90	60	49	31	13
17	58	30	72	38	32	61	113	70	54	35	32	12
18	27	29	58	33	32	66	114	56	48	30	30	12
19	22	28	48	49	35	74	124	48	42	25	25	32
20	20	116	46	44	37	1020	113	42	36	56	23	27
21	18	101	43	35	34	275	92	38	31	83	21	20
22	18	49	43	32	33	165	83	34	28	45	21	16
23	17	43	41	31	40	159	80	31	26	31	18	31
24	17	42	41	34	150	171	100	28	24	26	19	187
25	17	42	41	45	250	230	95	25	21	59	23	308
26	17	38	35	158	130	172	87	23	19	33	21	458
27	15	39	40	67	95	124	82	21	17	26	21	277
28	15	37	39	60	83	113	76	20	17	22	17	115
29	15	34	38	68	---	104	72	19	19	20	15	88
30	15	33	38	102	---	142	70	16	24	16	119	75
31	17	---	37	72	---	119	---	24	---	15	44	---
TOTAL	546	1211	1493	1521	1661	4005	3875	1680	1525	1204.8	1767	1953
MEAN	17.6	40.4	48.2	49.1	54.3	129	129	54.2	50.8	38.9	57.0	65.1
MAX	58	116	160	158	250	1020	700	125	210	269	601	458
MIN	11	15	28	26	32	54	70	18	17	9.4	13	12
CFSM	.73	1.68	2.01	2.05	2.47	5.38	5.38	2.26	2.12	1.62	2.38	2.71
IN.	.85	1.88	2.31	2.36	2.57	6.21	6.01	2.60	2.36	1.87	2.74	3.03

CAL YR 1974 TOTAL 17183.2 MEAN 47.1 MAX 292 MIN 4.7 CFSM 1.96 IN 26.63
WTR YR 1975 TOTAL 22441.8 MEAN 61.5 MAX 1020 MIN 9.4 CFSM 2.56 IN 34.78

NOTE.--No gage-height record Apr. 23 to June 4.

01170000 DEERFIELD RIVER NEAR WEST DEERFIELD, MASS.

LOCATION.--Lat 42°32'09", long 72°39'14", Franklin County, on right bank 0.4 mi (0.6 km) downstream from South River, 1.2 mi (1.9 km) west of West Deerfield, 2.5 mi (4.0 km) west of Deerfield, and 9.2 mi (14.8 km) upstream from mouth.

DRAINAGE AREA.--558 mi² (1,445 km²).

PERIOD OF RECORD.--Discharge: March to November 1904, January 1905, March to December 1905, October 1940 to current year. Published as "at Deerfield" 1904-5.

Chemical analyses: Water years 1953, 1967-69 (partial-record station), October 1968 to April 1970.

Water temperatures: Water years 1967-69 (partial-record station), October 1968 to April 1970.

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map. Prior to Dec. 16, 1905, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records good. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 245), and by several powerplants above station.

AVERAGE DISCHARGE.--35 years (1940-75), 1,259 ft³/s (35.65 m³/s), 30.65 in/yr (778 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 48,500 ft³/s (1,370 m³/s) Dec. 31, 1948 (gage height, 15.3 ft or 4.703 m); minimum daily, 28 ft³/s (0.79 m³/s) July 29, 1962.

Current year: Maximum discharge, 15,600 ft³/s (442 m³/s) July 14 (gage height, 8.35 ft or 2.545 m); minimum daily, 252 ft³/s (7.14 m³/s) July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1820	1060	477	657	1790	1890	1790	1900	438	420	1090	1750
2	1450	972	1090	564	1540	1500	2070	1940	690	720	519	1260
3	1490	262	1140	652	1380	1730	4990	1810	774	351	713	1150
4	1400	566	1130	546	1330	1510	5130	1560	1960	320	708	1240
5	1640	1970	856	344	1500	1380	3020	2570	1320	308	1020	1180
6	1430	2290	854	663	1420	1550	2210	1670	3140	277	862	1310
7	1230	1850	814	954	1560	1550	2060	1240	2890	280	1250	953
8	1350	1540	1540	563	1390	1540	2110	1170	2170	357	6880	762
9	1450	1380	3140	733	1030	1480	1980	1330	1770	441	4500	912
10	1390	1240	2070	1060	968	1460	1940	1480	1570	470	2570	857
11	1250	964	1830	1060	1520	1230	2060	1010	907	691	2320	729
12	1160	1350	1740	1800	1270	1570	2270	922	1550	252	1970	806
13	433	2130	1810	1810	1120	1490	2290	2930	5140	2400	1670	790
14	592	1940	1720	1580	1320	1370	2130	4090	5130	5270	1640	684
15	772	2010	1540	1390	667	1100	2040	2250	2660	3360	1340	482
16	1190	1810	1490	1350	499	709	1950	2010	2250	2270	562	643
17	2110	846	1620	1120	530	1020	2720	1960	2110	1690	408	675
18	1380	660	1630	1200	619	1230	3360	1370	2000	1590	707	807
19	1180	708	1470	998	1310	1500	4520	1350	1880	1190	877	954
20	1210	1280	1320	1070	1240	9220	4630	1330	1330	758	680	1360
21	702	3300	1380	1120	1120	5210	3380	1190	1010	1120	689	996
22	1070	2630	761	1310	1040	3080	2670	1080	494	1500	885	613
23	1040	2030	982	1270	770	2560	2370	1170	817	968	443	1210
24	1100	1960	1340	1070	2410	2840	2880	809	822	892	353	2030
25	1120	1960	1210	1110	4870	3320	3720	486	723	2230	516	4550
26	934	1840	877	1690	3180	3450	3750	418	510	1490	720	5510
27	874	1540	1010	1470	1970	2570	3120	597	342	839	788	7530
28	806	1540	734	1620	2040	2290	2120	698	437	585	862	3460
29	1170	863	761	1710	---	1820	1760	574	551	805	693	2440
30	1040	909	598	2060	---	1690	1330	375	636	822	3980	2180
31	913	---	762	1910	---	2020	---	395	---	829	2480	---
TOTAL	36696	45400	39696	36454	41403	66879	82370	43684	48021	35495	44695	49823
MEAN	1184	1513	1281	1176	1479	2157	2746	1409	1601	1145	1442	1661
MAX	2110	3300	3140	2060	4870	9220	5130	4090	5140	5270	6880	7530
MIN	433	262	477	344	499	709	1330	375	342	252	353	482
MEAN†	694	1431	1157	1027	1321	2254	3494	2007	1586	1079	1348	1647
CFSM†	1.24	2.56	2.07	1.84	2.37	4.04	6.26	3.60	2.84	1.93	2.42	2.95
IN.†	1.44	2.86	2.39	2.12	2.47	4.66	6.99	4.15	3.17	2.23	2.79	3.29
CAL YR 1974 TOTAL	514394			MEAN 1409	MAX 7000	MIN 156		MEAN† 1584		CFSM† 2.84	IN† 38.55	
WTR YR 1975 TOTAL	570616			MEAN 1563	MAX 9220	MIN 252		MEAN† 1321		CFSM† 2.37	IN† 32.14	

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

CONNECTICUT RIVER BASIN

01170100 GREEN RIVER NEAR COLRAIN, MASS.

LOCATION.--Lat 42°42'12", long 72°40'16", Franklin County, on right bank 0.5 mi (0.8 km) upstream from bridge on West Leyden Road and 2.5 mi (4.0 km) northeast of Colrain.

DRAINAGE AREA.--41.4 mi² (107.2 km²).

PERIOD OF RECORD.--Discharge: October 1967 to current year.

Chemical analyses: Water years 1968-69 (partial-record station).

Water temperatures: Water years 1968-69 (partial-record station).

Sediment records: Water years 1968-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (133 m) from topographic map.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1971: 1968(M), 1969.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--8 years, 96.9 ft³/s (2.744 m³/s), 31.79 in/yr (807 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 21, 1973 (gage height, 8.2 ft or 2.50 m, from floodmarks), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.9 ft³/s (0.054 m³/s) Aug. 1, 1968.

Current year: Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1315	1,240 35.1	5.21 1.588	July 14	1630	*+2,510 71.1	*6.59 2.009
Apr. 3	1900	1,240 35.1	5.21 1.588	Sept. 26	-	*1,300 36.8	-

† About.

Minimum discharge, 16 ft³/s (0.45 m³/s) Oct. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	33	57	43	90	103	153	131	37	39	27	57
2	34	28	57	43	75	99	156	134	35	33	25	44
3	30	26	59	36	70	91	156	134	39	27	23	34
4	26	44	49	45	60	82	170	132	108	25	23	33
5	24	87	47	37	64	78	264	188	61	23	30	29
6	23	145	44	35	65	72	232	129	220	21	25	31
7	22	77	43	37	64	71	198	108	135	20	59	24
8	20	58	113	40	60	77	177	94	82	19	290	24
9	19	48	233	43	56	64	163	85	61	20	131	25
10	18	42	113	48	52	66	161	78	50	22	63	22
11	18	39	87	66	44	68	174	73	43	20	47	20
12	17	38	77	155	47	61	140	76	79	20	56	23
13	17	122	76	105	45	74	175	311	374	282	42	37
14	17	94	71	80	43	73	166	228	215	605	35	28
15	18	80	63	70	43	65	198	138	125	319	29	23
16	53	65	56	54	43	67	234	118	101	134	27	20
17	108	56	77	44	43	65	326	100	90	45	26	18
18	55	51	73	43	43	71	367	86	75	63	26	25
19	39	48	62	64	46	79	536	75	64	52	24	90
20	34	71	58	52	49	848	491	67	54	58	22	56
21	31	286	55	45	46	441	358	63	46	85	20	42
22	29	149	54	43	44	311	263	55	42	56	20	37
23	27	95	51	40	44	271	251	51	38	44	19	50
24	26	84	51	45	294	268	371	50	35	38	20	120
25	25	81	52	60	407	318	354	43	31	157	23	350
26	26	69	45	200	237	321	285	39	29	72	23	450
27	25	56	50	120	146	267	217	38	26	50	25	620
28	24	59	54	90	125	195	175	37	26	41	20	200
29	23	54	52	85	---	175	150	33	55	36	18	130
30	23	52	46	150	---	191	136	31	101	32	335	95
31	36	---	42	110	---	176	---	37	---	29	104	---
TOTAL	926	2237	2067	2136	2460	5258	7857	2962	2479	2527	1657	2766
MEAN	29.9	74.6	66.7	68.9	87.9	170	262	95.5	82.6	81.5	53.5	92.2
MAX	108	286	233	200	407	848	536	311	374	605	335	620
MIN	17	26	42	35	43	61	136	31	26	19	18	18
CFSM	.72	1.80	1.61	1.66	2.12	4.11	6.33	2.31	2.00	1.97	1.29	2.23
IN.	.83	2.01	1.86	1.92	2.21	4.72	7.06	2.66	2.23	2.27	1.49	2.49

CAL YR 1974 TOTAL 30382.6 MEAN 83.2 MAX 766 MIN 7.0 CFSM 2.01 IN 27.30
WTR YR 1975 TOTAL 35332.0 MEAN 96.8 MAX 848 MIN 17 CFSM 2.34 IN 31.75

NOTE.--No gage-height record Sept. 6-30.

01170500 CONNECTICUT RIVER AT MONTAGUE CITY, MASS.

LOCATION.--Lat 42°34'48", long 72°34'30", Franklin County, on left bank 75 ft (23 m) downstream from Penn Central Railroad bridge at Montague City, 1,000 ft (300 m) downstream from Deerfield River, and at mile 119.0 (191.5 km).
DRAINAGE AREA.--7,865 mi² (20,370 km²).

PERIOD OF RECORD.--Discharge: March 1904 to current year. Prior to October 1929, published as "at Sunderland."

Records published for both sites October 1929 to September 1932.

GAGE.--Water-stage recorder. Datum of gage is 99.87 ft (30.440 m) above mean sea level. Prior to Oct. 1, 1917, nonrecording gage; Oct. 1, 1917, to Oct. 8, 1921, water-stage recorder used for low stages, nonrecording gage otherwise; and Oct. 9, 1921, to Sept. 30, 1932, water-stage recorder; all at site 9 mi (14 km) downstream at datum 1.00 ft (0.305 m) lower. Since Oct. 1, 1929, water-stage recorder at present site and datum.

REVISIONS (WATER YEARS).--WSP 471: 1904-17. WSP 741: 1930-32. WSP 781: 1928(M). WSP 891: Drainage area. WSP 1051: 1905, 1909-10, 1912-14, 1920, 1922-23, 1925-26, 1928, drainage area at Sunderland. WSP 1301: 1905(M), 1914-19(M), 1930-31(M).

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 245), and other reservoirs (combined usable capacity, about 43,400,000,000 ft³ or 1,230,000,000 m³).

AVERAGE DISCHARGE.--71 years, 13,630 ft³/s (386.0 m³/s), 23.53 in/yr (598 mm/yr), adjusted for storage since October 1923.

EXTREMES.--Period of record: Maximum discharge, 236,000 ft³/s (6,680 m³/s) Mar. 19, 1936 (gage height, 49.2 ft or 15.00 m, from floodmarks); minimum daily, 215 ft³/s (6.09 m³/s) Aug. 31, Sept. 1, 1958.

Current year: Peak discharges above base of 61,000 ft³/s (1,730 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 21	1515	*68,500 1,940	*25.93 7.903				

Minimum daily discharge, 1,250 ft³/s (35.4 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	14200	8100	10400	6470	11700	15300	21800	29400	8310	3650	6980	6420	
2	14200	5420	8800	8190	10200	13600	16200	33600	9800	4440	2540	5460	
3	12700	2480	13100	8650	9600	14200	26900	35600	10800	5150	2340	5180	
4	12700	6440	13600	6200	10400	14200	42300	36200	13800	2010	6750	7720	
5	12200	9330	12900	5860	10300	14600	30300	40900	12200	2680	6060	5870	
6	6330	12900	12700	6230	11500	12800	24000	36600	16900	1340	4120	5920	
7	7060	13100	11300	9200	11500	13100	21400	34000	23000	4240	5180	2540	
8	7390	13100	8620	8230	9000	13000	19300	31300	21600	2770	16400	5880	
9	7980	10200	16100	9280	5200	10400	18900	28500	16200	2620	21700	5190	
10	7460	7530	28200	10200	8000	9560	16500	23500	14600	3420	14300	4210	
11	7230	9360	22600	10800	9200	9320	18800	19700	12100	3160	9850	3630	
12	5080	9480	20500	11800	9200	11800	17000	15000	12700	2570	8670	5990	
13	3500	12600	17200	15500	8000	13000	16500	20200	23400	7320	7630	3960	
14	5720	13300	17700	14800	8700	12800	17300	24700	24900	21000	6510	3100	
15	6640	12400	14700	14200	6400	11900	18900	22700	20700	23500	5090	5940	
16	8400	12900	13300	13300	5500	6570	20000	19700	15400	16600	2130	6370	
17	13800	11000	14800	13000	5600	10600	25700	19500	16700	14900	2570	5820	
18	13600	8400	14900	8950	7200	11900	33900	16200	15700	13600	3250	6530	
19	9700	10500	16000	3500	8800	12500	41600	13500	14100	8420	3280	8660	
20	6030	10900	12300	8000	8980	36200	53000	12000	10700	3790	2950	9870	
21	10200	18500	12000	11000	9230	51500	64400	13800	6770	9150	2830	8490	
22	9250	30700	9950	9000	8000	52000	59100	14100	4450	11800	4560	8010	
23	7130	23700	9320	6500	6950	37800	50300	13100	7370	9480	2040	13700	
24	7720	13600	10500	8200	10000	37600	45900	12800	8110	8060	1250	13800	
25	7840	15800	10300	8810	25900	37800	51800	9790	4880	8040	2560	18800	
26	5730	20100	9410	12400	27200	42500	55500	5620	3960	7710	2880	26800	
27	3760	15400	12200	12200	23200	36500	49400	7020	4390	5240	7060	45000	
28	6000	16500	9900	12600	20000	28400	40000	7470	2730	4100	3850	38800	
29	7270	16100	5290	13600	---	27500	31700	8860	2430	5540	4160	33300	
30	6870	11000	7970	13800	---	23900	28500	7170	4600	4470	14400	25300	
31	6730	---	11700	13400	---	22600	---	7940	---	4520	13300	---	
TOTAL	260420	380840	408260	313870	305460	665450	976900	620470	363300	225290	197190	346260	
MEAN	8401	12690	13170	10120	10910	21470	32560	20020	12110	7267	6361	11540	
MAX	14200	30700	28200	15500	27200	52000	64400	40900	24900	23500	21700	45000	
MIN	3500	2480	5290	3500	5200	6570	16200	5620	2430	1340	1250	2540	
MEAN†	7406	12760	12720	9297	9572	20200	34670	23070	12110	7298	6229	11920	
CFSM†	.94	1.62	1.62	1.18	1.22	2.57	4.41	2.93	1.54	.93	.79	1.52	
IN.†	1.09	1.81	1.87	1.36	1.27	2.96	4.92	3.38	1.72	1.07	.91	1.69	
CAL YR 1974 TOTAL	5952200	MEAN	16310	MAX	74700	MIN	1580	MEAN†	16110	CFSM†	2.05	IN†	27.82
WTR YR 1975 TOTAL	5063710	MEAN	13870	MAX	64400	MIN	1250	MEAN†	13930	CFSM†	1.77	IN†	24.05

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lake to two reservoirs in Deerfield River basin listed on page 245.

01171300 FORT RIVER NEAR AMHERST, MASS.

LOCATION.--Lat 42°21'30", long 72°30'23", Hampshire County, on left bank 400 ft (120 m) downstream from Southeast Street Bridge, 600 ft (180 m) downstream from Hop Brook, and 1.3 mi (2.1 km) southeast of Amherst.

DRAINAGE AREA.--36.4 mi² (revised) or 94.3 km², excludes 5.15 mi² (revised) or 13.34 km², drained by Nurse and Dean Brooks, flow of which is diverted from basin.

PERIOD OF RECORD.--Discharge: June 1966 to current year.

Chemical analyses: Water years 1971, 1973 (partial-record station).

Water temperatures: Water years 1971, 1973 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 147 ft (45 m) from topographic map. Prior to May 10, 1974, at site 400 ft (120 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for municipal supply of Amherst.

AVERAGE DISCHARGE.--9 years, 62.6 ft³/s (1.773 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Dec. 21, 1973 (gage height, 9.88 ft or 3.011 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 3, 1966.

Floods of March 1936 and September 1938 reached discharges of 2,360 ft³/s (66.8 m³/s) and 1,640 ft³/s (46.4 m³/s), respectively, by computation of flow over dam 1.2 mi (1.9 km) downstream.

Current year: Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0130	595 16.9	4.83 1.472	Sept. 25	2130	603 17.1	4.86 1.481
Mar. 20	1645	839 23.8	5.73 1.747	Sept. 27	0530	*1,640 46.4	*7.94 2.420
Apr. 4	0015	1,090 30.9	6.52 1.987				

Minimum discharge, 9.0 ft³/s (0.25 m³/s) July 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	46	28	39	57	115	102	43	25	13	17	35
2	34	32	56	37	52	93	89	48	28	12	16	22
3	27	26	65	36	46	83	295	66	23	11	14	20
4	24	36	51	36	40	78	608	58	56	11	14	18
5	22	67	38	31	38	71	216	85	45	11	14	16
6	21	93	33	30	40	65	157	66	132	10	14	15
7	20	58	32	30	41	63	128	54	122	9.9	43	15
8	18	42	39	33	39	97	113	48	62	9.0	200	15
9	17	36	125	73	38	84	99	47	40	26	205	16
10	17	32	110	97	37	71	89	44	30	57	91	14
11	16	30	70	131	36	62	83	35	28	25	49	13
12	15	29	57	232	36	61	77	38	55	18	39	17
13	15	38	53	219	35	78	73	83	179	24	31	33
14	15	39	50	174	35	78	70	81	142	143	26	24
15	15	38	47	125	37	66	66	58	70	200	20	18
16	43	35	45	105	37	65	65	53	56	93	18	16
17	85	32	124	78	37	72	60	50	50	43	18	15
18	53	30	111	65	38	77	57	41	46	36	18	15
19	31	28	71	91	46	84	58	36	39	37	16	16
20	26	31	53	83	56	549	62	30	33	54	15	22
21	24	87	49	73	54	403	55	29	27	248	13	22
22	22	88	47	67	55	196	50	24	23	176	13	18
23	21	59	45	68	73	149	50	24	21	84	12	27
24	20	49	44	52	268	145	61	21	18	50	13	91
25	19	47	44	64	512	216	71	19	16	73	17	449
26	20	44	43	143	289	168	60	18	15	61	18	399
27	20	36	42	112	174	115	53	18	14	41	16	1140
28	19	34	40	79	133	95	49	20	14	32	14	351
29	18	33	40	80	---	91	46	18	14	25	13	177
30	18	30	39	109	---	131	44	16	14	22	103	129
31	44	---	38	82	---	140	---	22	---	18	75	---
TOTAL	821	1305	1729	2674	2379	3861	3106	1293	1437	1672.9	1185	3178
MEAN	26.5	43.5	55.8	86.3	85.0	125	104	41.7	47.9	54.0	38.2	106
MAX	85	93	125	232	512	549	608	85	179	248	205	1140
MIN	15	26	28	30	35	61	44	16	14	9.0	12	13

CAL YR 1974 TOTAL 19233.1 MEAN 52.7 MAX 400 MIN 6.2
WTR YR 1975 TOTAL 24640.9 MEAN 67.5 MAX 1140 MIN 9.0

01171500 MILL RIVER AT NORTHAMPTON, MASS.

LOCATION.--Lat 42°19'05", long 72°39'21", Hampshire County, on right bank at Northampton, 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--54.0 mi² (139.9 km²).

PERIOD OF RECORD.--Discharge: October 1938 to current year. October 1938 monthly discharge only, published in WSP 1301.

Chemical analyses: Water years 1957-59, 1971, 1973 (partial-record station).

Water temperatures: Water years 1957-59, 1971, 1973 (partial-record station).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 140 ft (43 m) from topographic map.

REVISIONS (WATER YEARS).--WSP 921: 1940. WSP 1231: 1940-42(M), 1944-45(M), 1948(M), 1949.

REMARKS.--Records good except those for February, which are fair. Flow regulated by mill above station prior to 1956.

AVERAGE DISCHARGE.--37 years, 94.5 ft³/s (2.676 m³/s), 23.76 in/yr (604 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,300 ft³/s (178 m³/s) Aug. 19, 1955 (gage height, 11.78 ft or 3.591 m), from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of computation of peak flow over dam; minimum, 2.2 ft³/s (0.062 m³/s) Oct. 1, 1950; minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 21, 23, 24, 1957.

Current year: Peak discharges above base of 1,250 ft³/s (35.4 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1430	2,170 61.5	6.41 1.954	Sept. 25	1700	1,330 37.7	5.06 1.542
Aug. 8	1645	1,900 53.8	5.96 1.817	Sept. 27	0400	*2,290 64.9	*6.61 2.015

Minimum discharge, 17 ft³/s (0.48 m³/s) July 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	47	62	72	112	170	196	75	45	28	31	59
2	44	40	95	69	92	150	202	87	50	25	28	48
3	38	35	132	60	84	135	312	114	43	24	26	42
4	35	58	92	66	82	120	616	102	112	21	40	37
5	32	104	70	59	82	115	353	215	119	19	45	34
6	30	156	69	54	90	110	278	127	154	18	35	39
7	28	102	65	65	80	105	239	102	208	17	97	33
8	27	75	149	65	75	130	211	88	141	17	1030	34
9	26	63	289	92	71	105	190	81	97	30	405	34
10	25	57	146	117	68	105	175	76	76	34	159	28
11	25	54	112	139	65	104	173	75	63	27	110	25
12	33	53	102	228	62	102	165	81	63	28	97	32
13	32	181	99	242	61	121	154	132	184	119	78	53
14	29	114	97	181	61	129	144	139	264	433	66	35
15	28	88	92	129	61	108	144	99	222	257	54	29
16	79	76	87	110	64	102	141	88	162	112	50	28
17	141	67	187	88	67	121	139	82	134	70	55	28
18	67	63	159	92	72	139	132	72	114	55	54	34
19	49	60	119	175	76	159	146	67	95	50	43	47
20	43	82	104	123	84	1730	146	62	82	193	39	75
21	43	320	95	97	76	690	121	53	70	394	35	53
22	40	156	92	100	75	400	106	47	60	140	34	41
23	37	104	87	87	88	324	101	47	53	81	32	60
24	35	92	84	84	340	341	127	45	47	62	33	202
25	34	92	87	95	490	459	132	42	42	124	42	682
26	35	87	78	242	337	374	106	39	39	81	39	607
27	33	75	81	149	242	249	93	39	36	57	38	1260
28	35	75	79	121	208	211	88	48	34	48	32	383
29	32	73	75	123	---	199	84	45	32	41	29	242
30	32	66	72	170	---	267	79	34	30	36	232	184
31	50	---	70	125	---	256	---	43	---	33	101	---
TOTAL	1274	2715	3227	3619	3365	7830	5293	2446	2871	2674	3189	4488
MEAN	41.1	90.5	104	117	120	253	176	78.9	95.7	86.3	103	150
MAX	141	320	289	242	490	1730	616	215	264	433	1030	1260
MIN	25	35	62	54	61	102	79	34	30	17	26	25
CFSM	.76	1.68	1.93	2.17	2.22	4.69	3.26	1.46	1.77	1.60	1.91	2.78
IN.	.88	1.87	2.22	2.49	2.32	5.39	3.65	1.68	1.98	1.84	2.20	3.09

CAL YR 1974	TOTAL	35867	MEAN	98.3	MAX	771	MIN	10	CFSM	1.82	IN	24.71
WTR YR 1975	TOTAL	42991	MEAN	118	MAX	1730	MIN	17	CFSM	2.19	IN	29.62

CONNECTICUT RIVER BASIN

01172000 CONNECTICUT RIVER AT HOLYOKE, MASS.

LOCATION.--Lat 42°12'50", long 72°23'10", Hampden County, at dam of Holyoke Water Power Co. in Holyoke, Mass.

DRAINAGE AREA.--8,309 mi² (21,520 km²).

PERIOD OF RECORD.--October 1974 to current year.

REMARKS.--Discharges furnished by local power company.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE 3 (FT ³ /S)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 22...	1400	5600	113	7.7	--	9.5	10.8	3600	510
NOV. 13...	1600	6500	102	7.0	12.5	8.5	9.8	10000	82000
DEC. 12...	1300	6300	98	7.1	4.0	1.0	13.0	9300	630
JAN. 22...	1100	4000	115	7.3	5.5	.3	12.2	3300	600
MAR. 05...	1800	6300	105	7.4	2.5	1.0	13.0	3100	940
18...	1415	6300	119	7.6	16.5	4.0	12.0	2100	300
APR. 15...	1330	4700	106	6.8	14.5	6.5	11.7	970	260
MAY 12...	1100	5800	81	6.9	29.0	13.0	9.9	3500	86
JUNE 25...	1100	3600	97	6.7	29.0	24.5	8.0	4600	2800
JULY 23...	1200	6500	98	6.9	48.0	26.0	7.7	4000	930
AUG. 11...	1000	5000	88	6.8	33.0	22.5	7.7	3100	300
SEP. 10...	1030	2300	99	7.2	18.0	19.5	9.4	45000	360

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT. 22...	81	.000	.000	.40	.01	.41	.24	.11	.76
NOV. 13...	8210	2.80	.400	.40	.02	.42	.23	.04	.69
DEC. 12...	550	24.0	24.0	.33	.00	.33	.29	.22	.84
JAN. 22...	430	3.20	5.20	.37	.01	.38	.20	.14	.72
MAR. 05...	350	1.00	.000	.37	.01	.38	.21	.13	.72
18...	250	.000	.000	.38	.01	.39	.25	.16	.80
APR. 15...	170	.000	.000	.36	.01	.37	.00	.21	.58
MAY 12...	32	.000	.000	.39	.01	.40	.03	.19	.62
JUNE 25...	84	4.50	.000	.19	.01	.20	.00	.41	.61
JULY 23...	82	9.60	.000	.20	.01	.21	.00	.45	.66
AUG. 11...	76	.000	.000	.19	.01	.20	.00	.41	.61
SEP. 10...	42	7.20	.000	.20	.01	.21	.00	.26	.47

B NON-IDEAL COLONY COUNT.

01172000 CONNECTICUT RIVER AT HOLYOKE, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT. 22...	.35	.03	73	4	--	--	0	--	--
NOV. 13...	.27	.04	74	5	11	4.5	0	1	2
DEC. 12...	.51	.04	74	7	16	--	0	--	--
JAN. 22...	.34	.03	74	5	11	--	0	--	--
MAR. 05...	.34	.04	85	3	9	1.4	0	--	2
18...	.41	.04	68	5	10	--	0	--	--
APR. 15...	.21	.04	67	3	8	--	0	--	--
MAY 12...	.22	.05	57	3	14	--	0	--	--
JUNE 25...	.41	.05	62	2	11	8.9	0	0	4
JULY 23...	.45	.06	60	4	14	--	1	--	--
AUG. 11...	.41	.03	79	4	15	--	0	--	--
SEP. 10...	.26	.04	88	3	12	2.8	0	--	1

DATE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
NOV. 13...	160	430	63	28	0	23	10	7.2	20	0	0	7
MAR. 05...	270	310	50	22	0	18	8.0	7.9	16	0	0	5
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	400	550	50	28	0	23	11	9.2	20	0	0	8
SEP. 10...	190	230	30	28	0	23	8.3	7.6	11	0	0	4

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
NOV. 13...	<2	0	2	2	0	2	0	62	.4	18	0	0
MAR. 05...	<5	0	3	2	0	1	0	48	.6	12	0	0
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	<1	0	2	4	1	2	0	62	.8	20	0	0
SEP. 10...	<1	0	2	2	0	1	0	30	<.5	7	0	0

DATE	TOTAL GER- MANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TI- TANIUM (TI) (UG/L)	TOTAL ZIR- CONIUM (ZR) (UG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	COD IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ALUMI- NUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BERYL- LIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON IN BOTTOM MA- TERIAL (UG/G)
NOV. 13...	0	0	8	0	--	--	--	--	--	--	--	--
MAR. 05...	0	0	15	0	15000	15000	3000	5800	180	22	0	5
APR. 15...	--	--	--	--	--	--	5400	7800	260	36	0	7
JUNE 25...	0	0	35	<1	43000	51000	5000	8400	180	35	0	6
SEP. 10...	0	0	12	0	28000	38000	8400	13000	260	50	0	15

CONNECTICUT RIVER BASIN

01172000 CONNECTICUT RIVER AT HOLYOKE, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOLYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANA- DIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITA- NIUM IN BOTTOM MA- TERIAL (UG/G)
NOV. 13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 05...	<3	9	4	12	18	0	13	0	5	6.0	60	150
APR. 15...	1	16	5	20	8	0	16	0	6	10	90	200
JUNE 25...	<2	15	5	25	30	0	20	0	6	10	100	220
SEP. 10...	4	25	8	40	40	3	50	0	10	15	200	520

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
NOV. 13...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
MAR. 05...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
JUNE 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
SEP. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 22...	<.5	2.2	2.7	70	<.4	<.4	<.4	5
NOV. 13...	<.7	2.5	3.2	67	<.4	<.4	<.4	5
DEC. 12...	<.6	2.0	2.5	64	5.8	5.2	5.6	12
JAN. 22...	2.2	2.3	2.9	68	.5	.5	.6	18
MAR. 05...	.8	2.0	2.5	65	<.4	.9	1.0	3
APR. 18...	.9	2.2	2.8	69	<.4	<.4	<.4	4
MAY 15...	4.5	2.8	3.5	66	1.5	1.5	1.7	5
JUNE 25...	<.5	1.7	2.2	52	<.4	.6	.7	10
JULY 23...	<.6	1.7	2.1	64	<.4	.6	.7	5
AUG. 11...	<.8	2.3	2.9	63	.4	.4	.5	10
SEP. 10...	2.1	2.5	3.1	57	1.3	1.1	1.3	12
	<.9	2.3	2.8	93	<.4	<.4	<.4	7

01172500 WARE RIVER NEAR BARRE, MASS.

LOCATION.--Lat 42°25'35", long 72°01'30", Worcester County, on left bank 700 ft (200 m) downstream from Barre Falls Reservoir, 1.6 mi (2.6 km) upstream from Burnshirt River, 4 mi (6 km) east of Barre, and at mile 33.3 (53.6 km).

DRAINAGE AREA.--55.0 mi² (142.4 km²).

PERIOD OF RECORD.--Discharge: July 1946 to current year.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 745 ft (227 m) from topographic map.

REMARKS.--Records excellent. Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir (see p. 245) since 1958. Diversion at times since 1955 from 6.5 mi² (16.8 km²) above station for municipal supply of Fitchburg.

AVERAGE DISCHARGE.--29 years, 90.2 ft³/s (2.554 m³/s), 22.27 in/yr (566 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Oct. 16, 1955 (gage height, 6.31 ft or 1.923 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 11, 12, 1963; minimum daily, 0.5 ft³/s (0.014 m³/s) Sept. 11, 1963. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,050 ft³/s (29.7 m³/s) Apr. 8, 1963 (gage height, 5.41 ft or 1.649 m). Current year: Maximum discharge, 748 ft³/s (21.2 m³/s) Sept. 29 (gage height, 4.98 ft or 1.518 m); minimum, 6.1 ft³/s (0.17 m³/s) July 9; minimum daily, 6.3 ft³/s (0.18 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	381	54	74	72	171	227	228	96	28	14	17	47		
2	289	51	80	81	135	173	204	97	31	13	11	32		
3	140	47	105	66	118	140	237	121	28	12	8.4	24		
4	102	58	111	71	85	117	548	122	48	11	8.0	20		
5	82	87	178	75	85	110	629	128	62	9.8	8.5	16		
6	76	130	219	57	90	110	427	114	104	9.1	8.7	14		
7	58	132	182	57	91	110	329	96	159	7.2	24	16		
8	47	111	133	61	92	110	280	84	126	6.6	84	16		
9	40	91	188	74	92	110	243	76	91	6.3	179	15		
10	35	77	265	80	90	110	218	68	70	6.9	167	13		
11	31	69	313	93	90	110	201	62	56	7.3	104	11		
12	28	63	321	117	90	108	188	59	64	9.4	64	11		
13	27	73	274	153	71	107	178	74	130	18	51	25		
14	25	82	195	211	80	108	170	91	164	50	44	24		
15	24	79	166	230	75	108	163	82	138	74	36	19		
16	55	72	162	227	69	108	154	73	101	61	31	16		
17	135	65	146	189	69	108	145	68	84	48	30	14		
18	144	60	156	141	70	108	137	61	77	38	26	13		
19	114	57	184	125	66	118	137	56	102	31	15	13		
20	86	56	191	152	71	274	142	56	81	29	12	13		
21	70	102	175	163	77	500	132	52	61	79	11	14		
22	59	155	134	162	77	558	120	50	49	119	9.6	16		
23	53	141	118	161	77	532	110	49	41	88	8.3	22		
24	49	114	118	145	119	406	110	46	36	56	8.0	60		
25	45	101	118	111	271	339	125	41	32	58	9.5	201		
26	45	92	80	119	323	351	122	38	29	56	9.6	287		
27	43	82	67	161	319	298	113	35	23	43	9.3	86		
28	40	78	90	175	251	259	106	34	18	36	8.0	238		
29	38	68	101	173	---	220	109	31	17	30	7.3	587		
30	36	64	101	173	---	214	105	21	16	26	37	676		
31	46	---	80	173	---	246	---	26	---	23	68	---		
TOTAL	2443	2511	4825	4048	3314	6497	6110	2107	2066	1075.6	1114.2	2559		
MEAN	78.8	83.7	156	131	118	210	204	68.0	68.9	34.7	35.9	85.3		
MAX	381	155	321	230	323	558	629	128	164	119	179	676		
MIN	24	47	67	57	66	107	105	21	16	6.3	7.3	11		
MEAN†	67.5	84.1	163	134	115	201	203	67.7	68.8	34.7	36.2	126		
CFSM†	1.23	1.53	2.96	2.44	2.09	3.65	3.69	1.23	1.25	.63	.66	2.29		
IN.†	1.41	1.71	3.43	2.81	2.19	4.22	4.11	1.42	1.40	.73	.76	2.57		
CAL YR 1974	TOTAL	36185.9	MEAN	99.1	MAX	430	MIN	4.3	MEAN†	99.8	CFSM†	1.81	IN†	24.64
WTR YR 1975	TOTAL	38669.8	MEAN	106	MAX	676	MIN	6.3	MEAN†	108	CFSM†	1.96	IN†	26.75

† Adjusted for change in contents in Barre Falls Reservoir.

CONNECTICUT RIVER BASIN

01173000 WARE RIVER AT COLDBROOK, MASS.

LOCATION.--Lat 42°23'26", long 72°03'39", Worcester County, on right bank above diversion dam at Ware River intake works at Coldbrook, 2 mi (3 km) east of South Barre, 2.7 mi (4.3 km) downstream from Furnshirt River, and at mile 29.1 (46.8 km).

DRAINAGE AREA.--96.8 mi² (250.7 km²).

PERIOD OF RECORD.--Discharge: January 1928 to current year.

GAGE.--Venturi meters and water-stage recorder. Datum of gage is 5.65 ft (1.722 m) below mean sea level. Prior to Feb. 1, 1936, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 631.91 ft (192.606 m) above mean sea level, unadjusted.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1031: 1944.

REMARKS.--Records good. Figures of discharge include diversion as needed for Boston metropolitan district during period Oct. 15 to June 14 of each year and at other times for emergency flood-control purposes as authorized by Corps of Engineers, U. S. Army; diversion began in March 1931. Flow regulated by Barre Falls Reservoir 4.3 mi (6.9 km) upstream (see p. 245) since 1958. Diversion at times since 1955 from 6.5 mi² (16.8 km²) above station for municipal supply of Fitchburg.

COOPERATION.--Computations of daily discharge made in cooperation with Water Division, Metropolitan District Commission, which collected gage-height and venturi-meter records.

AVERAGE DISCHARGE.--47 years, 163 ft³/s (4.616 m³/s), 22.87 in/yr (581 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Sept. 21, 1938 (gage height, 664.28 ft or 202.473 m), by computation of flow over dam; minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 19, 1965 (caused by unusual regulation). Maximum daily discharge since construction of Barre Falls Reservoir in 1958, 1,470 ft³/s (41.6 m³/s) Apr. 1, 1962.

Current year: Maximum daily discharge, 1,090 ft³/s (30.9 m³/s) Apr. 4; minimum daily, 5.9 ft³/s (0.17 m³/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	100	114	134	260	352	378	173	61	23	31	40
2	326	90	224	135	175	270	346	189	63	23	22	54
3	178	83	250	132	182	227	616	203	59	23	18	45
4	139	115	227	127	134	182	1040	205	119	23	19	37
5	132	156	294	126	136	183	975	225	117	21	23	32
6	125	223	295	111	151	167	671	182	237	20	29	30
7	93	201	241	116	152	190	532	155	266	20	65	34
8	79	199	321	120	145	182	458	139	163	19	202	33
9	69	141	502	129	142	186	399	133	131	19	315	30
10	61	133	489	141	138	168	380	133	122	20	230	26
11	56	124	493	202	145	186	348	127	101	20	155	21
12	52	114	462	284	139	166	332	115	117	26	102	16
13	51	127	385	351	135	186	313	144	288	56	41	30
14	48	134	279	365	130	188	312	145	296	132	68	34
15	48	135	262	347	131	190	288	140	223	150	57	35
16	119	129	232	335	124	184	276	132	136	105	52	31
17	288	115	311	263	127	188	280	123	141	77	50	28
18	213	108	267	237	126	199	256	118	144	61	41	26
19	158	104	309	267	125	245	278	106	155	50	34	5.9
20	133	111	292	280	133	747	269	101	156	59	26	13
21	117	253	262	267	133	886	248	94	82	168	33	21
22	101	315	202	257	125	877	231	89	68	173	32	24
23	93	272	182	242	132	752	212	69	56	118	30	18
24	88	179	192	211	290	643	235	71	49	85	27	155
25	83	172	183	199	589	607	249	68	45	98	77	415
26	85	171	139	296	610	602	232	63	41	82	27	538
27	80	133	133	299	530	494	212	61	37	63	24	886
28	74	132	136	287	408	423	205	58	33	55	21	623
29	71	129	174	291	---	368	209	53	30	47	21	854
30	72	112	143	309	---	397	207	47	25	41	81	881
31	95	---	142	275	---	439	---	72	---	37	108	---
TOTAL	3808	4510	8142	7135	5747	11074	11037	3733	3561	1914	2101	5074.9
MEAN	123	150	263	230	205	357	368	120	119	61.7	67.8	169
MAX	481	315	502	365	610	886	1090	225	296	173	315	886
MIN	48	83	114	111	124	166	205	47	25	19	18	5.9
MEAN†	111	151	270	234	202	349	367	120	119	61.7	68.0	210
CFSM†	1.15	1.56	2.79	2.42	2.09	3.61	3.79	1.24	1.23	.64	.70	2.17
IN.†	1.33	1.74	3.22	2.78	2.18	4.16	4.23	1.43	1.37	.74	.81	2.42
CAL YR 1974	TOTAL	63490.0	MEAN 174	MAX 734	MIN 10	MEAN† 175	CFSM† 1.81	IN† 24.49				
WTR YR 1975	TOTAL	67836.9	MEAN 186	MAX 1090	MIN	MEAN† 188	CFSM† 1.94	IN† 26.41				

† Adjusted for change in contents in Barre Falls Reservoir.

01173500 WARE RIVER AT GIBBS CROSSING, MASS.

LOCATION.--Lat 42°14'07", long 72°16'45", Hampshire County, on right bank 0.5 mi (0.8 km) upstream from Gibbs Crossing, 1.8 mi (2.9 km) upstream from Beaver Brook, 2.5 mi (4.0 km) southwest of Ware, and 8.8 mi (14.2 km) upstream from mouth.

DRAINAGE AREA.--199 mi² (515 km²).

PERIOD OF RECORD.--Discharge: August 1912 to current year.
Chemical analyses: Water years 1953-54 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 379.79 ft (115.760 m) above mean sea level. Prior to Mar. 1, 1930, at site 0.5 mi (0.8 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 1031: 1944. WSP 1301: 1914(M).

REMARKS.--Records good. Diversion at times: since March 1931 from 97 mi² (251 km²) for supply of Boston metropolitan district (see table below for figures of diversion) and since 1955 from 6.5 mi² (16.8 km²) for municipal supply of Fitchburg. Regulation by Barre Falls Reservoir (see p. 245) since 1958. Flow regulated by mills above station prior to 1967.

AVERAGE DISCHARGE.--63 years, 318 ft³/s (9.006 m³/s), 21.70 in/yr (551 mm/yr), adjusted for storage and for diversion to Boston metropolitan district.

EXTREMES.--Period of record: Maximum discharge, 22,700 ft³/s (643 m³/s) Sept. 21, 1938 (gage height, 18.2 ft or 5.55 m, from floodmarks), from rating curve extended above 4,600 ft³/s (130 m³/s) on basis of contracted-opening measurement at gage height 12.83 ft (3.911 m) and a slope-area measurement at gage height 18.2 ft (5.55 m); minimum, 5.0 ft³/s (0.14 m³/s) Oct. 26, 1914; minimum daily, 6.0 ft³/s (0.17 m³/s) Oct. 4, 1914. Maximum discharge since construction of Barre Falls Reservoir in 1958, 4,000 ft³/s (113 m³/s) Mar. 31, 1960 (gage height, 7.03 ft or 2.143 m).

Current year: Maximum discharge, 3,400 ft³/s (96.3 m³/s) Sept. 27 (gage height, 6.40 ft or 1.951 m); minimum, 48 ft³/s (1.36 m³/s) Aug. 29, 30; minimum daily, 49 ft³/s (1.39 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	886	274	230	278	328	435	400	260	145	81	79	142
2	758	242	388	269	305	383	377	264	142	75	71	120
3	502	211	580	251	285	360	515	318	128	75	64	93
4	349	226	418	260	255	323	1140	298	200	71	56	77
5	278	339	328	250	247	313	703	339	242	68	55	68
6	255	453	298	240	274	308	557	308	406	66	58	63
7	238	412	278	223	274	308	496	288	423	63	97	63
8	196	377	355	240	270	360	465	269	298	61	204	64
9	172	288	886	274	255	328	429	260	247	66	490	63
10	157	264	580	308	225	303	388	251	219	68	453	58
11	145	255	441	360	245	298	371	247	186	60	328	53
12	136	242	383	686	270	293	360	238	211	75	211	56
13	133	251	360	710	250	333	355	283	459	106	151	87
14	131	293	349	620	245	366	339	318	418	238	123	91
15	128	274	333	440	240	323	328	274	328	366	106	79
16	234	260	323	395	251	308	323	269	278	283	93	71
17	542	238	435	350	240	323	313	260	274	189	83	68
18	394	223	435	305	242	344	308	238	269	148	79	63
19	313	211	377	502	255	371	313	215	313	120	71	61
20	269	211	344	470	288	1090	328	200	313	113	61	61
21	251	459	323	360	283	1050	298	189	204	278	55	58
22	223	604	318	360	285	678	283	176	172	394	58	58
23	204	453	313	330	308	542	278	163	145	288	55	68
24	193	371	303	313	636	515	303	145	131	196	55	133
25	182	349	303	349	1110	644	323	136	120	200	60	775
26	186	333	290	588	877	565	308	133	110	196	85	931
27	179	303	275	483	580	447	283	133	101	154	70	2710
28	169	283	285	383	477	394	274	128	95	123	53	1330
29	166	278	275	371	---	383	274	120	91	108	49	588
30	160	264	278	453	---	441	274	118	87	93	104	435
31	238	---	274	377	---	502	---	131	---	83	160	---
TOTAL	8367	9241	11358	11798	9800	13631	11706	6969	6755	4505	3737	8587
MEAN	270	308	366	381	350	440	390	225	225	145	121	286
MAX	886	604	886	710	1110	1090	1140	339	459	394	490	2710
MIN	128	211	230	223	225	293	274	118	87	60	49	53
(†)	8.43	22.8	129	97.7	71.9	218	231	13.9	22.3	0	0	88.3
MEAN†	267	331	503	482	419	649	621	238	247	145	121	416
CFSM†	1.34	1.66	2.53	2.42	2.11	3.26	3.12	1.20	1.24	0.73	0.61	2.09
IN.†	1.55	1.86	2.91	2.79	2.19	3.76	3.48	1.38	1.39	0.84	0.70	2.33
CAL YR 1974 TOTAL	103292		MEAN 283	MAX 1540	MIN 46		MEAN† 351	CFSM† 1.76	IN† 23.98			
WTR YR 1975 TOTAL	106454		MEAN 292	MAX 2710	MIN 49		MEAN† 369	CFSM† 1.85	IN† 25.19			

† Diversion, in cubic feet per second, from 97 mi² for supply of Boston metropolitan district; records furnished by Metropolitan District Commission.

‡ Adjusted for diversion to Boston metropolitan district and for change in contents in Barre Falls Reservoir.

01174000 HOP BROOK NEAR NEW SALEM, MASS.

LOCATION.--Lat 42°28'42", long 72°20'05", Franklin County, on right bank 1.5 mi (2.4 km) upstream from mouth and 1.5 mi (2.4 km) south of New Salem.

DRAINAGE AREA.--3.39 mi² (8.78 km²).

PERIOD OF RECORD.--Discharge: October 1947 to current year. Monthly discharge only October 1947, published in WSP 1301.

Chemical analyses: Water year 1961 (partial-record station), December 1971 to September 1973.

Water temperatures: December 1971 to September 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 725 ft (221 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--28 years, 5.92 ft³/s (0.168 m³/s), 23.71 in/yr (602 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 289 ft³/s (8.18 m³/s) Oct. 24, 1959 (gage height, 3.17 ft or 0.966 m), from rating curve extended above 130 ft³/s (3.68 m³/s); maximum gage height, 3.21 ft (0.978 m) Feb. 2, 1973 (ice jam); minimum discharge, 0.004 ft³/s (<0.001 m³/s) Aug. 3, 9, 10, 1955.

Current year: Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1545	*190 5.38	*2.69 0.820	Sept. 27	0115	166 4.70	2.59 0.789

Minimum discharge, 0.39 ft³/s (0.011 m³/s) July 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.3	3.6	4.1	6.2	8.2	11	5.1	2.8	1.1	1.6	2.4
2	2.4	1.9	6.9	3.8	5.4	7.7	10	6.9	2.7	.94	1.3	1.9
3	2.0	1.8	7.4	3.8	5.0	6.7	66	6.9	2.0	.80	1.2	1.7
4	1.8	5.1	5.3	3.7	4.8	6.2	38	6.9	6.3	.67	1.3	1.3
5	1.6	9.6	4.5	3.4	5.1	6.0	24	8.2	3.3	.59	1.8	1.1
6	1.5	9.0	4.4	3.6	5.5	5.8	20	6.1	16	.55	1.3	2.3
7	1.3	4.9	4.2	3.7	4.9	5.8	17	5.3	6.3	.48	6.1	2.6
8	1.2	3.9	12	3.7	4.6	8.7	15	4.9	3.9	.45	12	1.6
9	1.2	3.4	16	4.5	4.4	6.7	13	4.5	3.0	3.0	5.4	1.4
10	1.2	3.0	7.9	5.3	4.2	5.8	12	4.4	2.4	3.4	3.4	1.1
11	1.2	2.9	6.5	9.0	4.1	5.6	11	4.1	1.9	1.3	2.7	.94
12	1.2	2.8	4.1	15	3.9	5.4	10	5.1	8.5	1.6	2.4	2.7
13	1.2	6.5	5.8	13	3.9	7.4	9.6	9.6	18	5.8	2.0	3.7
14	1.2	4.5	6.1	9.0	3.9	6.5	9.0	6.5	16	30	1.8	1.8
15	1.2	4.2	5.6	7.9	3.8	5.6	8.7	4.9	6.9	13	1.6	1.3
16	9.0	3.7	6.1	7.2	3.8	5.4	8.5	5.1	5.4	6.5	1.7	1.2
17	7.4	3.3	11	5.8	3.8	6.9	7.9	4.2	4.7	3.9	1.7	1.2
18	3.5	2.9	7.7	13	3.8	7.7	7.4	3.8	9.6	3.9	1.5	1.1
19	2.6	2.9	6.3	16	4.7	9.3	8.7	3.4	16	3.1	1.1	1.6
20	2.3	4.9	5.6	7.9	4.5	57	7.9	3.1	6.1	6.5	.99	3.5
21	2.1	17	5.4	7.9	4.1	24	6.9	2.7	4.1	27	.89	2.2
22	2.0	9.3	5.4	6.7	4.2	17	6.7	2.6	3.3	8.2	.84	1.7
23	1.9	6.1	5.1	6.3	5.1	17	6.5	2.4	2.7	4.9	.75	3.7
24	1.9	5.4	4.9	6.1	23	19	8.7	2.0	2.3	3.8	1.2	19
25	2.1	5.3	5.1	9.6	27	24	7.9	1.9	2.3	8.2	1.5	47
26	2.2	4.9	4.4	17	15	18	6.5	1.9	1.8	4.5	1.4	34
27	1.9	4.5	5.1	8.5	10	14	6.1	1.8	1.6	3.8	1.2	73
28	1.8	4.2	4.4	7.4	9.3	11	5.8	1.6	1.8	2.5	.80	21
29	1.8	4.1	4.1	7.9	---	11	5.6	1.3	1.7	2.4	.71	14
30	1.7	3.8	4.2	9.6	---	19	5.3	1.5	1.3	2.3	21	12
31	3.1	---	4.1	7.4	---	13	---	2.7	---	2.2	4.5	---
TOTAL	70.4	148.1	191.2	237.8	188.0	371.4	380.7	131.4	164.7	157.38	87.68	264.04
MEAN	2.27	4.94	6.17	7.67	6.71	12.0	12.7	4.24	5.49	5.08	2.83	8.80
MAX	9.0	17	16	17	27	57	66	9.6	18	30	21	73
MIN	1.2	1.8	3.6	3.4	3.8	5.4	5.3	1.3	1.3	.45	.71	.94
CFSM	.67	1.46	1.82	2.26	1.98	3.54	3.75	1.25	1.62	1.50	.83	2.60
IN.	.77	1.62	2.10	2.61	2.06	4.07	4.18	1.44	1.81	1.73	.96	2.90

CAL YR 1974 TOTAL 2219.65 MEAN 6.08 MAX 51 MIN .02 CFSM 1.79 IN 24.35
WTR YR 1975 TOTAL 2392.80 MEAN 6.56 MAX 73 MIN .45 CFSM 1.94 IN 26.25

01174500 EAST BRANCH SWIFT RIVER NEAR HARDWICK, MASS.

LOCATION.--Lat 42°23'36", long 72°14'21", Worcester County, on left bank 100 ft (30 m) above spillway of regulating dam and 4.6 mi (7.4 km) northwest of Hardwick.

DRAINAGE AREA.--43.7 mi² (113.2 km²).

PERIOD OF RECORD.--Discharge: January 1937 to current year. Published as "near Dana" January 1937 to September 1939.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

GAGE.--Water-stage recorder. Concrete spillway since Mar. 12, 1940. Datum of gage is 504.70 ft (153.833 m) above mean sea level.

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--38 years, 67.5 ft³/s (1.912 m³/s), 20.98 in/yr (533 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,780 ft³/s (192 m³/s) Sept. 21, 1938, average of slope-area and contracted-opening measurements; maximum gage height since construction of concrete spillway in 1940, 22.49 ft (6.855 m) June 25, 1944; no flow at times during several years.

Current year: Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 25	0600	379	10.7	20.26	6.175	Apr. 4	1000	624	17.7	20.62	6.285
Mar. 21	0200	547	15.5	20.51	6.251	Sept. 27	1100	*884	25.0	*20.98	6.395

Minimum discharge, 4.3 ft³/s (0.12 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	36	44	53	96	126	156	58	26	11	14	34
2	74	35	65	50	79	108	133	64	28	9.5	13	26
3	56	31	107	44	69	94	180	85	30	8.7	11	21
4	42	40	106	45	58	85	572	110	33	8.1	9.7	17
5	37	68	81	42	61	78	386	100	30	7.3	10	14
6	35	106	69	38	64	75	249	90	100	6.7	10	13
7	33	102	60	46	56	76	192	79	130	6.1	19	14
8	28	83	70	45	57	91	164	68	100	5.5	66	13
9	24	65	190	58	53	84	146	58	70	5.5	153	12
10	22	51	191	69	53	76	131	50	52	9.4	117	11
11	21	44	139	76	54	73	123	45	41	9.6	74	9.4
12	20	40	111	156	52	71	115	50	92	12	48	11
13	20	50	96	224	51	78	109	82	150	19	33	16
14	17	72	88	219	49	88	101	79	170	92	25	17
15	17	60	82	156	50	89	96	70	130	187	20	15
16	32	51	83	121	49	78	90	60	90	130	17	13
17	81	44	99	101	52	76	85	50	65	82	16	13
18	83	38	105	83	53	82	82	42	58	57	15	13
19	63	36	95	119	60	95	92	37	98	38	13	14
20	51	41	85	137	61	318	100	33	85	33	11	14
21	41	170	76	103	57	482	88	31	54	70	9.8	14
22	35	180	71	92	59	318	78	30	39	101	9.6	13
23	33	130	67	83	86	221	76	28	28	72	8.7	18
24	30	100	63	76	264	197	88	26	30	46	8.7	49
25	28	80	66	81	360	228	95	25	25	52	10	222
26	29	67	61	144	265	233	90	23	21	44	10	270
27	31	62	52	161	188	185	80	21	17	33	10	743
28	28	55	52	126	151	151	72	18	16	26	9.6	483
29	26	52	50	112	---	130	65	16	15	22	9.1	247
30	26	48	50	129	---	141	62	15	14	18	29	158
31	33	---	50	119	---	178	---	26	---	16	41	---
TOTAL	1214	2037	2624	3108	2607	4405	4096	1569	1837	1237.4	850.2	2527.4
MEAN	39.2	67.9	84.6	100	93.1	142	137	50.6	61.2	39.9	27.4	84.2
MAX	118	180	191	224	360	482	572	110	170	187	153	743
MIN	17	31	44	38	49	71	62	15	14	5.5	8.7	9.4
CFSM	.90	1.55	1.94	2.29	2.13	3.25	3.14	1.16	1.40	.91	.63	1.93
IN.	1.03	1.73	2.23	2.65	2.22	3.75	3.49	1.34	1.56	1.05	.72	2.15

CAL YR 1974 TOTAL 25145.23 MEAN 68.9 MAX 391 MIN .69 CFSM 1.58 IN 21.40
WTR YR 1975 TOTAL 28112.00 MEAN 77.0 MAX 743 MIN 5.5 CFSM 1.76 IN 23.93

NOTE.--No gage-height record Nov. 10-26, Apr. 16 to June 17.

CONNECTICUT RIVER BASIN

01174600 CADWELL CREEK NEAR PELHAM, MASS.

LOCATION.--Lat 42°21'16", long 72°23'18", Hampshire County, on left bank 0.8 mi (1.3 km) east of Knights Corner, 2 mi (3 km) upstream from mouth, 2.7 mi (4.3 km) south of Pelham, and 5 mi (8 km) north of Belchertown.

DRAINAGE AREA.--0.63 mi² (1.63 km²).

PERIOD OF RECORD.--Discharge: July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 860 ft (262 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 1.10 ft³/s (0.031 m³/s), 23.71 in/yr (602 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 38 ft³/s (1.08 m³/s) Sept. 27, 1975 (gage height, 5.10 ft or 1.554 m); no flow at times.

Current year: Peak discharges above base of 18 ft³/s (0.51 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	0700	22 0.62	4.68 1.426	Sept. 24	2200	21 0.59	4.64 1.414
Apr. 3	1730	28 0.79	4.84 1.475	Sept. 25	1330	22 0.62	4.68 1.426
July 14	1545	26 0.74	4.80 1.463	Sept. 27	0015	*38 1.08	*5.10 1.554
July 21	0530	19 0.54	4.56 1.390				

No flow part of each day July 6, 7, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.1	.59	.60	1.1	2.0	1.7	.56	.39	.03	.14	.35
2	.93	.80	1.9	.55	.97	1.6	1.5	.91	.38	.02	.11	.26
3	.68	.63	1.9	.53	.84	1.3	1.1	.95	.27	.01	.09	.22
4	.55	1.3	1.2	.54	.75	1.1	8.3	1.2	1.4	.02	.13	.16
5	.45	2.5	.86	.50	.65	1.0	3.7	1.5	.72	.01	.16	.12
6	.39	2.8	.72	.48	.69	1.0	2.6	1.0	4.9	.01	.11	.18
7	.35	1.5	.69	.50	.68	1.1	2.0	.82	2.0	.01	2.4	.16
8	.31	1.2	3.1	.50	.65	2.3	1.7	.70	1.0	.01	4.3	.12
9	.30	.94	4.5	.63	.65	1.5	1.5	.62	.68	.42	2.0	.18
10	.30	.83	2.0	.72	.62	1.1	1.3	.57	.48	.38	.83	.10
11	.28	.76	1.4	3.2	.61	1.0	1.2	.55	.35	.11	.52	.09
12	.28	.74	1.2	5.9	.60	1.0	1.1	.79	2.5	.23	.51	.58
13	.26	1.6	1.1	5.2	.59	2.0	1.0	2.4	6.1	.61	.32	.63
14	.26	1.2	1.0	2.9	.56	1.7	.97	1.5	2.4	1.1	.23	.25
15	.26	1.2	.92	2.0	.53	1.3	.93	1.0	1.3	4.3	.17	.18
16	2.6	.96	.93	1.5	.54	1.3	.89	1.0	.97	1.6	.18	.16
17	2.4	.83	2.2	1.2	.54	1.7	.82	.79	1.0	.88	.21	.16
18	1.2	.73	1.6	2.0	.56	2.1	.78	.64	.79	.62	.18	.15
19	.80	.68	1.2	2.9	1.1	2.8	1.1	.56	.59	.55	.11	.30
20	.65	1.3	1.0	1.8	1.1	1.8	.91	.48	.42	2.3	.09	.39
21	.53	5.0	.92	1.2	.87	6.2	.77	.41	.35	9.0	.07	.27
22	.50	2.5	.90	1.2	.95	3.4	.69	.37	.24	3.0	.07	.20
23	.48	1.4	.81	1.0	1.4	2.7	.66	.33	.18	1.2	.05	.78
24	.45	1.2	.78	.94	8.9	3.2	1.0	.28	.14	.73	.15	5.9
25	.53	1.1	.78	1.9	1.1	4.3	.98	.25	.11	1.9	.21	13
26	.53	.93	.67	3.8	5.3	2.7	.81	.23	.09	.94	.18	12
27	.45	.78	.66	2.0	3.1	1.9	.71	.28	.07	.56	.13	17
28	.41	.74	.64	1.5	2.4	1.6	.66	.24	.08	.42	.07	4.7
29	.41	.70	.60	1.8	---	1.5	.61	.16	.09	.31	.06	2.7
30	.39	.62	.61	2.3	---	3.0	.57	.19	.06	.23	3.1	1.9
31	1.9	---	.58	1.5	---	2.4	---	.39	---	.18	.67	---
TOTAL	21.13	38.57	37.96	53.29	48.25	79.8	52.46	21.67	30.05	41.59	17.55	63.19
MEAN	.68	1.29	1.22	1.72	1.72	2.57	1.75	.70	1.00	1.34	.57	2.11
MAX	2.6	5.0	4.5	5.9	11	18	11	2.4	6.1	11	4.3	17
MIN	.26	.62	.58	.48	.53	1.0	.57	.16	.06	.01	.05	.09
CFSM	1.08	2.05	1.94	2.73	2.73	4.08	2.78	1.11	1.59	2.13	.90	3.35
IN.	1.25	2.27	2.24	3.14	2.84	4.70	3.09	1.28	1.77	2.45	1.03	3.73

CAL YR 1974 TOTAL 434.51 MEAN 1.19 MAX 10 MIN 0 CFSM 1.89 IN 25.62
WTR YR 1975 TOTAL 505.51 MEAN 1.39 MAX 18 MIN .01 CFSM 2.21 IN 29.80

01174900 CADWELL CREEK NEAR BELCHERTOWN, MASS.

LOCATION.--Lat 42°20'08", long 72°22'12", Hampshire County, on left bank 200 ft (60 m) upstream from mouth, 2 mi (3 km) southeast of Knights Corner, and 4.5 mi (7.2 km) north of Belchertown.

DRAINAGE AREA.--2.81 mi² (7.28 km²).

PERIOD OF RECORD.--Discharge: July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 540 ft (165 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 4.55 ft³/s (0.129 m³/s), 21.99 in/yr (559 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 239 ft³/s (6.77 m³/s) Dec. 21, 1973 (gage height, 7.24 ft or 2.207 m), from rating curve extended above 92 ft³/s (2.61 m³/s); minimum, 0.07 ft³/s (0.002 m³/s) several times in water years 1964, 1965, and 1966.

Current year: Peak discharges above base of 75 ft³/s (2.12 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1915	92 2.61	6.53 1.990	Sept. 24	2230	84 2.38	6.48 1.975
July 14	1815	89 2.52	6.51 1.984	Sept. 27	0100	*215 6.09	*7.15 2.179
July 21	-	†80 2.27	- -				

† About.

Minimum discharge, 0.24 ft³/s (0.007 m³/s) July 7, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	5.0	3.2	3.1	4.7	7.7	7.1	2.9	2.1	.53	1.2	1.9
2	5.4	3.9	7.6	2.9	4.0	6.5	6.1	3.7	2.4	.45	1.0	1.4
3	4.1	3.3	7.1	2.7	3.7	5.5	36	4.2	1.5	.43	.90	1.3
4	3.4	4.9	5.0	2.8	3.2	5.0	37	4.6	5.0	.40	.90	1.0
5	3.1	8.6	4.0	2.5	3.3	4.5	18	5.9	3.2	.35	1.1	.84
6	2.7	9.7	3.6	2.5	3.6	4.4	12	4.2	20	.29	.94	.84
7	2.4	5.8	3.5	2.7	3.4	4.6	9.3	3.6	7.5	.25	7.2	.94
8	2.2	4.6	12	2.7	3.3	8.1	7.8	3.2	4.3	.25	14	.72
9	2.1	4.1	19	3.7	3.2	5.9	6.8	3.0	3.2	.69	8.6	.84
10	2.0	3.6	8.4	4.2	3.2	4.7	6.1	2.9	2.4	1.7	4.0	.66
11	1.9	3.4	6.2	10	3.1	4.6	5.6	2.8	2.0	.84	2.8	.58
12	1.8	3.3	5.4	20	2.9	4.5	5.2	3.1	9.4	.97	2.6	1.8
13	1.8	5.6	4.9	20	2.9	6.9	4.9	6.6	24	1.8	1.9	2.8
14	1.7	4.6	4.7	12	2.9	6.4	4.7	4.9	9.5	44	1.5	1.3
15	1.8	4.5	4.3	7.5	2.8	5.1	4.4	3.7	5.6	22	1.1	1.0
16	10	3.9	4.7	6.3	2.9	5.0	4.3	3.7	4.3	7.7	1.0	.90
17	11	3.6	7.6	4.8	2.9	6.1	4.1	3.3	4.1	4.4	1.2	.90
18	5.2	3.3	6.2	7.2	3.0	7.2	3.9	2.8	3.6	3.1	1.3	.87
19	4.0	3.1	5.0	14	4.0	8.9	4.3	2.6	2.9	2.7	.90	1.2
20	3.4	4.9	4.5	6.9	4.2	4.3	4.2	2.3	2.3	6.0	.72	1.7
21	3.1	23	4.2	5.5	3.7	34	3.7	2.0	1.8	30	.66	1.3
22	2.8	13	4.2	5.3	3.6	18	3.4	1.8	1.5	11	.63	1.1
23	2.7	6.9	3.9	4.4	4.9	13	3.3	1.8	1.3	5.2	.53	2.6
24	2.5	5.5	3.8	4.3	32	12	4.0	1.5	1.0	3.6	.72	21
25	2.7	4.9	3.9	7.6	41	17	4.4	1.3	.94	8.3	1.1	47
26	3.0	4.4	3.2	15	23	14	4.1	1.3	.81	4.6	1.0	37
27	2.6	3.8	3.4	7.9	12	9.2	3.6	1.6	.72	3.2	.94	100
28	2.3	3.7	3.2	6.0	9.3	6.9	3.3	1.8	.72	2.6	.66	22
29	2.3	3.6	3.0	6.5	---	6.4	3.1	1.2	.72	2.0	.55	12
30	2.3	3.3	3.1	7.9	---	12	3.0	1.1	.63	1.7	10	8.5
31	8.0	---	3.0	5.6	---	9.4	---	2.2	---	1.4	3.1	---
TOTAL	112.1	165.8	165.8	214.5	196.7	306.5	227.7	91.6	129.44	172.45	74.75	275.99
MEAN	3.62	5.53	5.35	6.92	7.03	9.89	7.59	2.95	4.31	5.56	2.41	9.20
MAX	11	23	19	20	41	43	37	6.6	24	44	14	100
MIN	1.7	3.1	3.0	2.5	2.8	4.4	3.0	1.1	.63	.25	.53	.58
CFSM	1.29	1.97	1.90	2.46	2.50	3.52	2.70	1.05	1.53	1.98	.86	3.27
IN.	1.48	2.19	2.19	2.84	2.60	4.06	3.01	1.21	1.71	2.28	.99	3.65

CAL YR 1974 TOTAL 1886.80 MEAN 5.17 MAX 49 MIN .11 CFSM 1.84 IN 24.97
WTR YR 1975 TOTAL 2133.33 MEAN 5.84 MAX 100 MIN .25 CFSM 2.08 IN 28.23

01175500 SWIFT RIVER AT WEST WARE, MASS.

LOCATION.--Lat 42°16'04", long 72°19'59", Hampshire County, on left bank at West Ware, 1.4 mi (2.3 km) downstream from Quabbin Reservoir, 3.5 mi (5.6 km) east of Belchertown, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--188 mi² (487 km²), includes 1.6 mi² (4.1 km²) drained by Beaver Brook, flow of which is diverted from Ware River basin. Prior to January 1937, 186 mi² (482 km²).

PERIOD OF RECORD.--Discharge: July 1910 to September 1912 (twice-daily gage heights and corresponding discharges), October 1912 to current year.

Chemical analyses: Water years 1952-54 (partial-record station).

Water temperatures: Water years 1952, 1954 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 365.18 ft (111.307 m) above mean sea level. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft (100 m) upstream at same datum.

REVISIONS (WATER YEARS).--WSP 401: Drainage area. WSP 451: 1916. WSP 871: 1919. WSP 1031: 1944 (changes in reservoir contents and adjusted figures only). WSP 1301: 1925(M).

REMARKS.--Records good. Flow regulated since August 1939 by Quabbin Reservoir (see p. 245). Diversion from Ware River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and at times during 1966 and 1967 from Quabbin Reservoir to city of Worcester.

AVERAGE DISCHARGE.--63 years (1912-75), 301 ft³/s (8.524 m³/s), 21.74 in/yr (552 mm/yr), adjusted for storage and diversions.

EXTREMES.--Period of record: Maximum discharge, 7,590 ft³/s (215 m³/s) Mar. 19, 1936 (gage height, 15.00 ft or 4.572 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Dec. 15, 1968. Maximum discharge since construction of Quabbin Reservoir in 1939, 1,870 ft³/s (53.0 m³/s) Apr. 30, 1956 (gage height, 8.37 ft or 2.551 m).

Current year: Maximum discharge, 150 ft³/s (4.25 m³/s) July 14 (gage height, 2.94 ft or 0.896 m); minimum daily, 20 ft³/s (0.57 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	41	41	41	41	42	41	40	39	93	93	95
2	42	41	45	41	41	41	41	41	38	93	90	94
3	41	41	44	41	43	41	47	40	38	93	93	95
4	39	42	42	40	43	41	46	41	39	93	93	95
5	41	43	42	40	42	41	43	40	39	90	93	95
6	41	43	42	41	41	41	42	40	43	93	93	92
7	41	42	42	41	41	41	42	39	40	94	96	95
8	41	41	45	40	41	42	42	39	39	94	98	95
9	41	41	46	42	41	39	42	39	39	93	92	95
10	41	41	43	41	41	40	41	39	38	93	94	95
11	41	41	42	44	41	40	41	39	38	93	56	95
12	41	41	42	45	41	40	41	39	42	91	41	97
13	41	42	42	46	41	41	41	40	43	95	41	93
14	41	41	42	44	41	46	41	39	40	110	40	95
15	42	41	42	43	41	29	41	38	40	59	40	95
16	47	41	42	42	39	48	41	39	40	41	40	95
17	46	41	44	42	39	40	39	39	40	37	40	95
18	43	41	43	43	39	41	40	39	39	48	40	57
19	42	41	42	44	40	41	41	38	39	40	40	41
20	42	42	42	42	40	48	41	38	39	41	40	41
21	42	47	42	42	40	43	40	38	39	46	78	42
22	42	43	42	42	40	42	40	38	39	42	94	41
23	41	41	42	41	41	42	40	38	39	40	91	43
24	41	41	42	41	53	43	41	38	39	41	95	47
25	41	41	42	43	50	43	40	38	39	42	94	50
26	41	41	41	45	44	42	40	38	39	40	94	49
27	41	41	41	42	42	43	40	39	78	40	94	64
28	41	42	41	42	42	41	40	39	91	40	94	49
29	41	42	41	43	---	41	40	38	93	40	94	47
30	41	41	41	42	---	43	39	39	93	20	95	46
31	41	---	41	41	---	42	---	39	---	91	95	---
TOTAL	1290	1248	1311	1307	1169	1288	1234	1208	1381	2066	2371	2228
MEAN	41.6	41.6	42.3	42.2	41.8	41.5	41.1	39.0	46.0	66.6	76.5	74.3
MAX	47	47	46	46	53	48	47	41	93	110	98	97
MIN	39	41	41	40	39	29	39	38	38	20	40	41
MEAN	57.0	254	369	444	470	568	435	201	387	353	197	508
CFSM	.30	1.35	1.96	2.36	2.50	3.02	2.31	1.07	2.06	1.88	1.05	2.70
IN.	.35	1.51	2.26	2.72	2.60	3.49	2.58	1.23	2.30	2.16	1.21	3.02

CAL YR 1974	TOTAL	17954	MEAN	49.2	MAX	110	MIN	27	MEAN†	318	CFSM†	1.69	IN†	22.94
WTR YR 1975	TOTAL	18101	MEAN	49.6	MAX	110	MIN	20	MEAN†	352	CFSM†	1.87	IN†	25.43

† Adjusted for diversions and change in contents in Quabbin Reservoir.

01175670 SEVENMILE RIVER NEAR SPENCER, MASS.

LOCATION.--Lat 42°15'54", long 72°00'19", Worcester County, on right bank 40 ft (12 m) upstream from bridge on Cooney Road and 1.5 mi (2.4 km) north of Spencer.

DRAINAGE AREA.--8.58 mi² (22.22 km²).

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water year 1960. October 1960 to current year. October and November 1960 monthly discharge only, published in WSP 1901.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation by ponds above station since 1971.

AVERAGE DISCHARGE.--15 years, 13.6 ft³/s (0.385 m³/s), 21.53 in/yr (547 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 412 ft³/s (11.7 m³/s) Mar. 18, 1968 (gage height, 5.19 ft or 1.582 m), from rating curve extended above 160 ft³/s (4.53 m³/s); maximum gage height, 5.41 ft (1.649 m) Mar. 7, 1963 (backwater from ice); minimum discharge, 0.13 ft³/s (0.004 m³/s) Aug. 21, 1974.

Current year: Peak discharges above base of 60 ft³/s (1.70 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 2	2215	61 1.73	3.54 1.079	Mar. 30	2000	111 3.14	3.94 1.201
Dec. 9	0900	76 2.15	3.68 1.122	Apr. 3	2315	92 2.61	3.81 1.161
Feb. 25	1630	73 2.07	3.65 1.113	Sept. 27	1100	*175 4.96	*4.31 1.314

Minimum discharge, 0.57 ft³/s (0.016 m³/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	16	11	15	20	29	26	11	6.5	2.2	2.2	4.5
2	24	14	30	14	18	25	23	12	6.1	2.0	2.1	4.1
3	17	12	46	13	17	22	40	14	5.0	1.6	1.9	3.5
4	14	13	37	13	15	20	82	13	7.1	1.6	1.7	3.1
5	11	16	26	13	15	18	63	15	6.9	1.3	1.7	2.7
6	9.4	20	19	12	16	17	51	13	15	1.2	2.0	2.6
7	8.4	18	16	12	15	17	43	12	16	1.3	4.8	2.5
8	7.6	16	20	13	14	19	38	11	12	1.2	11	2.2
9	7.1	14	68	15	13	17	33	10	9.7	1.0	18	2.3
10	6.5	13	55	16	13	15	30	8.9	7.6	1.1	14	1.8
11	6.1	12	43	19	13	15	27	8.6	5.9	1.0	10	1.6
12	5.9	11	35	40	13	16	25	8.1	8.4	2.8	7.1	2.6
13	5.7	14	31	47	13	18	23	17	23	6.5	4.5	5.9
14	5.3	15	27	44	12	19	22	41	22	14	3.7	3.6
15	5.1	14	24	33	12	18	21	24	17	17	3.1	3.1
16	14	13	23	26	12	17	20	20	12	14	2.9	3.0
17	19	12	34	22	12	18	19	19	9.7	9.2	2.7	2.8
18	10	11	33	22	12	19	18	16	8.6	6.7	2.2	2.8
19	6.1	11	28	33	13	21	18	15	8.1	4.8	1.8	2.6
20	4.2	11	24	32	14	86	18	13	7.6	4.8	1.5	2.6
21	5.1	19	22	29	13	84	17	13	7.1	14	1.3	2.6
22	11	24	21	24	13	62	16	12	5.9	15	1.1	2.4
23	10	20	20	22	14	51	15	9.7	4.8	9.7	1.1	3.3
24	9.4	18	19	19	35	47	17	8.9	4.2	6.7	1.4	12
25	9.2	17	19	21	69	51	17	7.9	3.5	6.7	1.6	24
26	9.7	16	18	34	57	47	16	6.5	3.6	6.1	1.4	35
27	8.9	14	17	30	41	39	15	5.5	2.7	4.5	1.3	141
28	8.1	13	16	24	34	34	14	5.1	2.6	3.4	1.1	94
29	7.9	13	15	23	---	31	13	4.4	2.6	2.9	1.0	57
30	7.4	12	15	28	---	34	12	4.3	2.5	2.5	6.5	40
31	14	---	15	23	---	31	---	6.7	---	2.3	5.5	---
TOTAL	322.1	442	827	731	558	957	792	385.6	253.7	169.1	122.2	471.2
MEAN	10.4	14.7	26.7	23.6	19.9	30.9	26.4	12.4	8.46	5.45	3.94	15.7
MAX	35	24	68	47	69	86	82	41	23	17	18	141
MIN	4.2	11	11	12	12	15	12	4.3	2.5	1.0	1.0	1.6
CFSM	1.21	1.71	3.11	2.75	2.32	3.60	3.08	1.45	.99	.64	.46	1.83
IN.	1.40	1.92	3.59	3.17	2.42	4.15	3.43	1.67	1.10	.73	.53	2.04

CAL YR 1974	TOTAL	5612.94	MEAN 15.4	MAX 68	MIN .20	CFSM 1.79	IN 24.33
WTR YR 1975	TOTAL	6030.90	MEAN 16.5	MAX 141	MIN 1.0	CFSM 1.92	IN 26.14

CONNECTICUT RIVER BASIN

01176000 QUABOAG RIVER AT WEST BRIMFIELD, MASS.

LOCATION.--Lat 42°10'56", long 72°15'51", Hampden County, on right bank 10 ft (3 m) upstream from abandoned highway-bridge site at West Brimfield, 0.9 mi (1.4 km) upstream from Blodgett Mill Brook, 3.5 mi (5.6 km) northeast of Palmer, and 9.9 mi (15.9 km) upstream from mouth.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--Discharge: August 1909 to August 1912 (twice-daily gage heights and corresponding discharges), September 1912 to current year.

Chemical analyses: Water years 1953, 1967, 1969-70, 1972-74 (partial-record station).

Water temperatures: Water years 1967, 1969, 1972-74 (partial-record station).

Sediment records: Water years 1967, 1969-70, 1972-74 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map. Prior to Aug. 19, 1912, nonrecording gage, and Aug. 19, 1912, to Oct. 31, 1955, water-stage recorder, at several sites 0.5 mi (0.8 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 711: Drainage area. WSP 1301: 1918(M).

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Slight diurnal fluctuation at low flow caused by mill above station prior to 1956; regulation much greater prior to 1938.

High flow slightly affected by retarding reservoirs since 1965.

AVERAGE DISCHARGE.--63 years (1912-75), 241 ft³/s (6.825 m³/s), 21.67 in/yr (550 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 12,800 ft³/s (362 m³/s) Aug. 19, 1955 (gage height, 15.36 ft or 4.682 m, from floodmarks, present site and datum), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 6.6 ft³/s (0.19 m³/s) Sept. 28, 29, 1957.

Current year: Peak discharges above base of 840 ft³/s (23.8 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Sept. 28	-	*1,730 49.0	†*6.69 2.039				

† From peak-stage indicator.

Minimum discharge, 35 ft³/s (0.99 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	556	204	219	270	435	682	562	217	95	50	75	70
2	528	210	309	251	406	626	535	211	90	47	68	64
3	485	200	405	252	364	564	638	214	83	46	62	59
4	435	220	429	239	317	502	738	219	97	45	59	54
5	390	250	456	230	358	468	784	233	95	45	56	50
6	347	280	435	223	300	441	802	225	166	44	52	47
7	305	300	403	216	278	410	766	213	172	44	72	44
8	269	280	457	216	267	390	721	204	162	44	102	42
9	237	250	652	233	259	332	676	197	157	44	132	40
10	207	230	657	245	245	353	630	188	142	50	143	38
11	185	210	675	296	235	331	585	176	130	46	148	36
12	168	190	654	437	230	318	541	167	147	54	145	38
13	154	220	617	540	225	321	496	196	236	73	133	50
14	141	240	579	575	225	327	460	227	228	103	119	60
15	130	235	536	581	220	313	436	251	219	117	104	57
16	213	225	509	561	221	312	408	270	205	121	94	54
17	317	215	550	499	219	318	372	267	189	121	86	51
18	312	200	531	471	217	320	349	251	170	119	77	48
19	308	190	513	546	216	332	333	230	148	113	67	46
20	290	192	491	545	220	647	301	210	126	114	60	44
21	268	294	464	510	223	687	276	192	110	159	54	42
22	251	309	442	488	224	781	277	177	100	150	50	45
23	231	311	418	459	239	783	267	158	88	146	44	55
24	213	302	393	425	428	769	272	142	79	142	44	150
25	203	292	383	434	678	784	274	130	71	149	47	300
26	194	261	365	506	734	736	265	114	66	135	45	500
27	180	242	377	481	745	673	255	106	61	125	42	1400
28	173	265	320	483	726	647	251	103	57	114	36	1700
29	166	246	306	476	---	622	245	94	55	102	35	1400
30	159	232	285	465	---	619	229	89	54	92	51	1000
31	197	---	277	468	---	566	---	97	---	83	72	---
TOTAL	8212	7295	14107	12621	9454	15974	13744	5768	3798	2837	2374	7584
MEAN	265	243	455	407	338	515	458	186	127	91.5	76.6	253
MAX	556	311	675	581	745	784	802	270	236	159	148	1700
MIN	130	190	219	216	216	312	229	89	54	44	35	36
CFSM	1.75	1.61	3.01	2.70	2.24	3.41	3.03	1.23	.84	.61	.51	1.68
IN.	2.02	1.80	3.48	3.11	2.33	3.94	3.39	1.42	.94	.70	.58	1.87

CAL YR 1974 TOTAL 103439 MEAN 283 MAX 764 MIN 23 CFSM 1.87 IN 25.48
WTR YR 1975 TOTAL 103768 MEAN 284 MAX 1700 MIN 35 CFSM 1.88 IN 25.56

NOTE.--No gage-height record Aug. 31 to Sept. 30.

CONNECTICUT RIVER BASIN

189

01177000 CHICOPEE RIVER AT INDIAN ORCHARD, MASS.

LOCATION.--Lat 42°09'38", long 72°30'52", Hampden County, on left bank 1,000 ft (300 m) downstream from West Street Bridge at Indian Orchard, 1.1 mi (1.8 km) upstream from Fuller Brook, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--688 mi² (1,782 km²).

PERIOD OF RECORD.--Discharge: August 1928 to current year. Published as "at Bircham Bend" prior to November 1938. Chemical analyses: Water years 1953, 1957 (partial-record station).

Water temperatures: Water years 1953, 1957 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (38 m) from topographic map. Prior to Nov. 1, 1938, water-stage recorder at site 1.8 mi (2.9 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 1231: 1934.

REMARKS.--Records good. Diversion since 1941 from 186 mi² (482 km²) in Swift River basin and at times since 1931 from 97 mi² (251 km²) in Ware River basin for Boston metropolitan district; since 1950, for Chicopee; since 1952, for South Hadley; and, at times during 1966 and 1967, for Worcester; diversions at times since 1955 from 6.5 mi² (16.8 km) in Ware River basin for Fitchburg. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. See table below for figures of diversion. Flow regulated by powerplants above station, by Quabbin Reservoir (21 mi or 34 km upstream) on Swift River since 1939, by Barre Falls Reservoir on Ware River since 1958, by Conant Brook Reservoir since 1966 (see p. 245), and by smaller reservoirs.

AVERAGE DISCHARGE.--47 years, 1,086 ft³/s (30.76 m³/s), 21.44 in/yr (545 mm/yr), adjusted to present drainage area and for storage and diversions.

EXTREMES.--Period of record: Maximum discharge, 45,200 ft³/s (1,280 m³/s) Sept. 21, 1938, by computation of flow over dam; minimum daily, 16 ft³/s (0.45 m³/s) several times in 1929-31.

Current year: Maximum discharge, 7,250 ft³/s (205 m³/s) Sept. 27 (gage height, 10.67 ft or 3.252 m); minimum daily, 164 ft³/s (4.64 m³/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2270	927	790	994	1330	1760	1520	756	372	300	340	354
2	1750	678	1040	953	1190	1610	1440	756	410	257	243	306
3	1460	777	1720	907	1100	1520	1610	825	372	271	264	298
4	1160	825	1610	916	967	1320	3000	818	400	260	345	271
5	942	935	1370	841	953	1280	2450	927	506	194	164	236
6	843	1220	1220	807	1030	1200	2070	846	818	239	219	239
7	825	1200	1150	780	971	1200	1880	777	1050	315	529	210
8	672	1070	1250	616	950	1240	1730	710	825	209	518	239
9	634	949	2400	916	930	1200	1610	678	621	243	1080	226
10	590	804	2300	1320	831	1040	1520	678	590	290	992	236
11	518	756	1900	1230	853	1010	1480	609	559	260	743	183
12	489	750	1700	1940	808	1010	1360	596	489	286	500	267
13	478	804	1620	2270	813	1160	1320	710	1070	410	400	367
14	410	861	1460	2270	740	1120	1320	854	1200	977	320	222
15	451	825	1400	1810	840	1040	1240	854	897	1110	270	298
16	553	797	1400	1630	820	1010	1160	818	736	783	310	246
17	1520	804	1550	1490	790	1120	1090	770	697	596	250	264
18	1260	666	1720	1270	840	1080	1020	647	560	467	300	219
19	1040	659	1570	1740	870	1200	1050	647	640	395	180	226
20	875	685	1380	1860	927	2300	1030	577	600	462	172	194
21	797	1210	1340	1500	920	2930	935	553	700	750	197	194
22	743	1570	1300	1460	898	2280	883	506	600	1190	267	222
23	717	1170	1190	1350	1010	2000	883	456	500	723	200	194
24	634	1130	1200	1280	1760	1850	912	420	400	628	186	577
25	653	1170	1210	1280	3200	2060	970	363	350	577	229	1810
26	678	1070	1120	1790	2910	1970	956	381	300	596	226	2060
27	641	883	1080	1800	2240	1700	890	377	250	506	243	6280
28	583	890	1040	1550	1930	1570	839	345	200	420	200	4650
29	565	883	1020	1450	---	1510	790	354	350	367	206	2760
30	547	898	1030	1520	---	1530	783	354	270	349	354	2230
31	804	---	978	1510	---	1710	---	336	---	278	340	---
TOTAL	26142	27866	43058	43050	33421	46530	39741	19298	17332	14708	10787	26078
MEAN	843	929	1389	1389	1194	1501	1325	623	578	474	348	869
MAX	2270	1570	2400	2270	3200	2930	3000	927	1200	1190	1080	6280
MIN	410	659	790	616	740	1010	783	336	200	194	164	183
(†)	+150	+363	+252	+139	+371	+17.8	+19.9	+156	+696	+397	+636	+451
MEAN†	848	1164	1851	1891	1690	2236	1947	795	937	761	465	1436
CFSM†	1.23	1.69	2.69	2.75	2.46	3.25	2.83	1.16	1.36	1.11	0.68	2.09
IN.†	1.42	1.89	3.10	3.17	2.56	3.75	3.16	1.33	1.52	1.28	0.78	2.33
CAL YR 1974 TOTAL	340499		MEAN 933	MAX 3470	MIN 92		MEAN† 1270	CFSM† 1.85	IN† 25.07			
WTR YR 1975 TOTAL	348011		MEAN 953	MAX 6280	MIN 164		MEAN† 1332	CFSM† 1.94	IN† 26.29			

† Diversions, in cubic feet per second, from Ware and Swift River basins for supply of Boston metropolitan district, Chicopee, and South Hadley, and from Ludlow Reservoir for Springfield.

† Adjusted for diversions and for change in contents in Quabbin Reservoir (adjusted for diversion from Ware River) and Barre Falls, Conant Brook, and Ludlow Reservoirs.

CONNECTICUT RIVER BASIN

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.

LOCATION.--Lat 42°09'37", long 72°34'52", Hampden County, multiple-parameter monitor on right bank on stone pier at Chicopee Falls dam, 300 ft (90 m) upstream from bridge on State Highway 33, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--711 mi² (1,841 km²).

PERIOD OF RECORD.--CHEMICAL ANALYSES: February 1973, August 1973 to current year.
WATER TEMPERATURES: February 1973, August 1973 to current year.

INSTRUMENTATION.--Four-parameter water-quality monitor.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum recorded, 533 micromhos May 29, 1975; minimum recorded, 41 micromhos May 27, 1975.

pH: Maximum recorded, 9.1 Nov. 16, 1973; minimum, 4.3 June 28, 1974.

DISSOLVED OXYGEN: Maximum, 15.2 mg/l Feb. 3, 1973; minimum, 0.0 mg/l on many days each year.

WATER TEMPERATURES: Maximum recorded, 33.0°C July 7, 1975; minimum, freezing point on several days during winter period.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 533 micromhos May 29; minimum, 41 micromhos May 27.

pH: Maximum recorded, 7.7 Jan. 10; minimum recorded, 5.7 Dec. 9. Maximum and minimum may have been higher or lower during periods of missing record.

DISSOLVED OXYGEN: Maximum recorded, 14.5 mg/l Jan. 21; minimum, 0.0 mg/l on several days during the year.

WATER TEMPERATURES: Maximum, 33.0°C July 7; minimum, freezing point on several days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), NOVEMBER 1974 TO SEPTEMBER 1975

DAY	NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	113	102	107	150	99	124
2	---	---	---	282	107	178	123	94	109
3	---	---	---	129	110	117	147	106	122
4	---	---	---	113	98	108	145	107	122
5	---	---	---	131	98	115	139	102	117
6	---	---	---	150	120	130	133	104	116
7	127	103	111	148	117	132	154	121	132
8	127	100	118	165	122	138	173	119	136
9	128	99	120	129	99	110	226	131	167
10	120	105	115	102	92	97	153	118	135
11	129	106	116	104	91	98	150	119	135
12	137	119	126	112	93	102	138	98	117
13	145	117	133	113	104	108	130	104	113
14	138	126	130	115	101	109	125	101	110
15	140	124	134	117	104	109	108	95	102
16	135	112	119	326	102	141	112	97	106
17	137	122	129	328	126	174	117	103	109
18	164	136	144	135	110	123	305	111	160
19	171	157	164	131	106	117	214	125	156
20	183	122	161	116	98	106	126	112	118
21	163	113	129	114	97	104	119	105	112
22	130	98	110	112	94	101	128	111	118
23	122	102	110	109	96	102	125	112	119
24	170	97	114	105	90	99	127	111	119
25	135	104	121	106	91	98	199	116	141
26	113	102	109	118	91	98	139	107	120
27	131	106	114	104	92	97	118	102	112
28	133	98	110	109	90	96	123	109	115
29	120	102	107	109	81	95	168	116	137
30	115	97	106	110	92	98	133	105	119
31	---	---	---	116	82	103	120	104	110
MONTH	183	97	123	328	81	113	305	94	123

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), NOVEMBER 1974 TO SEPTEMBER 1975.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	113	101	106	105	94	100	123	92	105	141	107	124
2	130	99	111	108	98	104	129	107	114	153	105	124
3	127	105	113	108	98	105	126	77	101	128	105	119
4	136	109	118	116	101	108	90	67	78	150	117	130
5	136	114	124	122	105	111	79	67	71	133	117	127
6	177	121	143	122	106	113	85	70	75	138	101	120
7	152	121	136	132	105	116	87	75	80	138	99	120
8	135	117	126	143	101	116	99	80	85	144	101	115
9	139	120	129	118	102	110	103	95	99	112	97	103
10	161	116	131	119	107	115	104	76	93	132	99	107
11	148	126	136	139	111	125	107	94	99	120	95	105
12	149	128	136	144	117	126	104	77	92	128	90	107
13	172	125	140	119	108	113	96	79	84	138	103	116
14	169	119	135	132	102	112	106	84	97	123	96	111
15	165	128	141	211	110	139	104	91	96	126	94	109
16	150	124	135	122	108	113	102	91	95	123	104	111
17	159	119	135	118	103	111	114	81	96	111	96	104
18	212	133	158	122	108	113	113	93	106	120	101	109
19	201	129	165	145	103	116	113	103	108	141	111	118
20	167	133	149	155	89	105	113	98	105	178	119	142
21	153	129	140	102	80	91	145	99	115	165	97	130
22	152	127	137	94	80	86	147	96	125	110	79	96
23	151	123	135	100	86	91	123	83	107	141	75	104
24	166	113	134	112	91	100	137	111	124	98	72	83
25	114	89	100	113	93	100	122	110	117	79	46	70
26	93	84	88	106	83	97	128	100	116	76	56	65
27	100	88	94	109	79	91	136	103	121	89	41	69
28	106	89	99	99	85	93	249	135	184	235	53	121
29	---	---	---	114	95	103	303	111	202	533	230	345
30	---	---	---	126	91	110	124	93	118	385	244	300
31	---	---	---	107	91	100	---	---	---	292	178	245
MONTH	212	84	128	211	79	108	303	67	107	533	41	127
		JUNE			JULY			AUGUST			SEPTEMBER	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	244	185	214	145	111	127	144	115	125	230	167	193
2	268	154	198	156	106	129	163	116	134	---	---	---
3	326	181	223	145	119	130	144	108	124	---	---	---
4	202	112	155	157	106	132	126	97	116	125	85	114
5	148	108	130	165	115	133	173	116	136	127	106	116
6	128	96	117	134	104	121	159	123	142	140	95	117
7	125	103	112	131	112	120	146	108	124	128	93	115
8	114	86	99	168	114	150	201	103	126	116	99	109
9	111	90	100	161	92	134	118	75	97	134	98	118
10	128	97	108	144	114	127	104	71	90	154	93	120
11	125	80	103	150	109	123	111	80	99	181	113	134
12	150	89	120	131	102	120	126	98	106	180	119	133
13	130	85	107	132	102	116	113	66	100	127	105	117
14	96	62	83	153	93	116	153	71	110	123	106	114
15	91	70	82	112	89	96	148	114	127	119	96	106
16	108	78	93	107	91	101	183	145	169	139	100	117
17	106	76	90	111	95	101	184	110	131	142	113	127
18	102	83	89	141	101	114	126	116	120	167	130	151
19	135	86	98	130	103	113	146	126	135	159	118	144
20	98	67	87	117	102	113	151	121	138	138	100	123
21	102	78	90	119	86	106	144	115	132	124	113	118
22	98	80	88	122	83	104	136	110	123	147	114	122
23	111	78	92	122	96	109	142	104	120	151	125	140
24	125	86	102	123	107	116	126	117	122	150	108	133
25	130	103	115	128	93	115	130	115	124	119	99	110
26	138	114	125	119	97	109	143	129	137	111	83	99
27	130	94	114	121	90	107	145	126	136	96	55	84
28	131	97	113	127	96	110	157	108	134	103	86	93
29	129	105	112	142	113	125	211	118	138	118	91	103
30	129	112	118	158	109	124	167	114	135	119	95	110
31	---	---	---	142	108	124	181	156	167	---	---	---
MONTH	326	62	116	168	83	118	211	66	126	230	55	121
PERIOD	533	41	119									

CONNECTICUT RIVER BASIN

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

PH (UNITS), NOVEMBER 1974 TO MARCH 1975

DAY	NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.5	6.2	6.3	6.2	5.7	6.0
2	---	---	---	6.6	6.1	6.4	---	---	---
3	---	---	---	6.5	6.2	6.4	---	---	---
4	---	---	---	6.5	6.2	6.5	---	---	---
5	---	---	---	6.5	6.1	6.4	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	6.6	6.3	6.5	---	---	---
9	---	---	---	6.4	5.7	6.3	7.6	7.1	7.5
10	---	---	---	6.3	6.2	6.3	7.7	6.7	7.3
11	---	---	---	6.6	6.2	6.3	7.2	6.3	6.9
12	---	---	---	6.9	6.1	6.3	7.1	6.5	6.8
13	---	---	---	6.7	6.2	6.4	7.1	6.5	6.8
14	---	---	---	6.5	6.3	6.3	6.9	6.4	6.8
15	---	---	---	6.4	6.2	6.3	6.8	6.1	6.6
16	---	---	---	7.2	6.2	6.4	7.0	6.7	6.8
17	---	---	---	---	---	---	6.9	6.7	6.8
18	---	---	---	---	---	---	6.9	6.7	6.8
19	---	---	---	6.5	6.1	6.4	7.0	6.7	6.9
20	---	---	---	6.5	6.1	6.4	7.0	6.7	6.9
21	---	---	---	6.4	6.3	6.4	7.0	6.8	6.9
22	6.8	6.2	6.7	6.4	6.3	6.4	7.0	6.7	6.8
23	6.8	6.4	6.5	6.5	6.2	6.4	7.0	6.5	6.8
24	6.8	6.2	6.5	7.0	6.5	6.6	6.9	6.5	6.8
25	---	---	---	6.6	6.3	6.6	6.8	6.5	6.7
26	6.8	6.5	6.6	6.9	5.9	6.6	6.9	6.4	6.8
27	6.8	6.3	6.5	6.8	6.5	6.6	7.0	6.3	6.8
28	6.6	6.5	6.5	6.7	6.5	6.6	7.0	6.7	6.8
29	6.6	6.4	6.5	---	---	---	6.9	6.7	6.8
30	6.5	6.2	6.4	---	---	---	7.0	6.8	6.8
31	---	---	---	6.3	6.0	6.2	7.0	6.7	6.8
MONTH	---	---	---	7.2	5.7	6.4	---	---	---

DAY	FEBRUARY			MARCH		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.5	6.7	7.0	6.4	6.9
2	7.0	6.7	6.9	7.0	6.9	6.9
3	7.0	6.6	6.9	7.3	6.9	7.1
4	7.0	6.5	6.9	7.4	7.0	7.1
5	7.2	6.8	7.0	7.4	6.0	7.1
6	7.3	6.6	6.9	7.3	6.9	7.1
7	7.1	6.8	7.0	7.3	6.8	6.9
8	7.1	6.7	7.0	7.0	6.8	6.9
9	7.1	6.9	7.0	7.0	6.8	6.9
10	7.2	6.9	7.1	7.1	6.7	6.9
11	7.4	6.3	6.9	7.1	6.7	6.9
12	7.0	6.1	6.7	7.2	6.6	6.9
13	7.1	6.0	6.8	7.2	6.8	7.0
14	7.1	6.8	7.0	7.2	6.9	7.1
15	7.1	7.0	7.0	7.1	6.8	7.0
16	7.0	6.9	7.0	7.0	6.3	6.9
17	7.2	6.8	7.1	6.9	6.1	6.6
18	7.2	7.1	7.1	6.8	5.9	6.3
19	7.2	6.8	7.1	---	---	---
20	7.4	7.1	7.2	---	---	---
21	7.3	7.0	7.1	---	---	---
22	7.2	7.0	7.1	---	---	---
23	7.2	7.0	7.1	---	---	---
24	7.1	7.0	7.1	---	---	---
25	7.1	7.0	7.1	---	---	---
26	7.0	6.9	7.0	---	---	---
27	7.0	6.8	6.9	---	---	---
28	7.1	6.0	6.8	---	---	---
29	---	---	---	---	---	---
30	---	---	---	---	---	---
31	---	---	---	---	---	---
MONTH	7.4	6.0	7.0	---	---	---
PERIOD	7.7	5.7	6.8			

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, NOVEMBER 1974 TO SEPTEMBER 1975

DAY	NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.7	11.5	12.4	12.8	10.7	12.0
2	---	---	---	12.3	11.5	11.9	12.7	8.9	10.5
3	---	---	---	12.5	11.6	12.2	12.0	10.8	11.4
4	---	---	---	12.6	11.9	12.4	11.2	10.3	10.7
5	---	---	---	13.0	9.3	12.1	11.0	9.8	10.5
6	---	---	---	10.5	9.1	10.0	---	---	---
7	8.4	5.8	7.7	13.4	8.7	10.9	13.4	9.1	10.8
8	7.8	5.7	6.4	13.4	12.4	13.0	12.8	7.9	11.1
9	6.1	5.5	5.8	13.3	11.0	12.9	11.8	9.3	10.8
10	6.1	5.4	5.7	13.2	12.9	13.1	---	---	---
11	6.4	4.4	5.2	13.5	12.9	13.2	---	---	---
12	4.3	3.0	3.7	13.5	13.1	13.4	---	---	---
13	3.8	2.4	3.0	13.5	12.9	13.3	---	---	---
14	2.9	1.6	2.3	13.2	12.7	12.9	12.8	12.3	12.6
15	2.3	1.3	1.7	13.2	12.6	12.9	13.2	11.6	12.9
16	2.4	0	1.0	12.7	11.9	12.3	13.6	13.2	13.3
17	1.2	0	0	11.8	9.7	11.0	13.8	13.4	13.6
18	1.5	0	0	12.8	10.1	11.8	14.0	13.0	13.7
19	1.8	0	.6	12.9	10.5	12.4	13.7	13.2	13.5
20	7.5	1.4	4.0	12.6	11.9	12.4	14.2	13.5	13.9
21	9.9	7.1	7.7	12.7	12.5	12.6	14.5	13.4	14.0
22	10.8	10.1	10.4	12.5	12.1	12.4	13.7	12.5	13.4
23	11.2	10.4	10.9	12.3	11.4	12.1	13.7	13.0	13.5
24	11.5	11.0	11.3	12.2	11.7	11.9	---	---	---
25	---	---	---	12.5	11.7	12.2	---	---	---
26	12.4	11.7	12.1	12.4	10.3	11.9	---	---	---
27	12.2	11.6	11.9	12.0	11.6	11.8	---	---	---
28	12.7	11.9	12.3	11.9	11.2	11.5	---	---	---
29	12.8	11.8	12.2	---	---	---	---	---	---
30	12.8	11.8	12.3	---	---	---	13.0	11.8	12.7
31	---	---	---	12.7	11.6	12.3	13.3	12.3	12.9
MONTH	---	---	---	13.5	8.7	12.2	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.1	12.3	12.8	13.0	11.8	12.8	---	---	---	---	---	---
2	---	---	---	13.1	12.8	12.9	---	---	---	8.4	5.9	7.2
3	---	---	---	13.1	12.5	12.9	12.0	8.6	10.5	12.5	7.0	8.9
4	---	---	---	13.2	12.8	13.0	12.5	9.2	11.3	11.1	8.6	9.8
5	---	---	---	13.1	10.6	12.8	13.3	11.6	12.8	11.1	9.1	9.9
6	13.1	11.9	12.8	13.0	12.3	12.7	13.2	9.5	12.4	10.2	5.3	8.5
7	13.2	12.0	12.8	13.0	12.3	12.7	13.0	9.9	11.5	10.8	5.0	7.4
8	13.4	12.4	13.0	12.8	12.4	12.7	11.7	9.0	11.0	9.2	7.3	8.3
9	13.3	12.9	13.2	13.3	12.8	13.1	8.9	7.8	8.3	7.9	5.8	6.9
10	13.3	12.6	13.1	13.3	12.7	13.0	10.7	7.5	9.0	7.3	4.1	5.6
11	13.1	10.5	12.5	13.2	12.3	13.0	8.2	6.4	7.5	---	---	---
12	12.9	10.9	12.1	13.1	11.9	12.7	9.0	7.1	8.0	---	---	---
13	12.6	9.8	11.9	12.5	12.0	12.3	9.8	6.8	8.7	---	---	---
14	12.0	10.5	11.7	12.7	12.0	12.3	8.0	5.7	6.4	6.4	4.5	5.6
15	11.8	11.3	11.6	13.0	12.1	12.5	---	---	---	6.8	4.1	5.2
16	11.3	10.8	11.1	13.1	11.5	12.5	---	---	---	4.6	2.7	3.7
17	11.9	10.9	11.5	12.6	10.3	11.5	---	---	---	4.7	2.8	3.7
18	11.5	11.1	11.3	11.9	9.9	11.0	9.6	7.4	8.5	5.2	2.2	3.5
19	11.2	9.5	10.5	11.8	9.9	10.7	9.1	6.8	8.1	2.9	1.5	2.0
20	10.9	10.4	10.7	11.2	10.1	10.8	10.0	8.0	8.9	---	---	---
21	10.7	10.1	10.4	---	---	---	9.6	5.6	7.6	---	---	---
22	10.6	10.2	10.5	---	---	---	10.2	5.3	7.0	1.4	0	.2
23	10.0	9.2	9.6	---	---	---	10.4	6.4	7.7	3.3	0	.8
24	---	---	---	---	---	---	10.4	5.2	8.1	4.6	0	1.5
25	---	---	---	---	---	---	7.9	4.1	6.4	2.9	0	.8
26	13.1	12.9	13.0	---	---	---	9.0	5.2	7.2	6.9	0	3.2
27	13.3	12.8	13.1	---	---	---	6.9	5.5	6.2	5.2	1.5	3.1
28	13.2	10.5	11.8	---	---	---	---	---	---	1.9	0	.9
29	---	---	---	---	---	---	---	---	---	7.2	.3	3.8
30	---	---	---	---	---	---	---	---	---	6.5	.6	2.0
31	---	---	---	---	---	---	---	---	---	4.5	1.0	1.9
MONTH	13.4	9.2	11.9	---	---	---	---	---	---	12.5	0	4.6

CONNECTICUT RIVER BASIN

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, NOVEMBER 1974 TO SEPTEMBER 1975.--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.7	1.2	2.7	2.2	.1	.7	1.3	0	.6	7.6	5.6	6.3
2	4.8	0	2.7	.8	.1	.6	1.5	0	.8	5.6	4.0	4.9
3	2.0	0	1.3	1.0	0	.5	7.5	0	3.2	6.7	3.4	4.9
4	2.2	0	1.4	2.0	.1	.7	5.3	.8	2.6	5.9	3.3	4.6
5	4.2	2.1	2.9	3.5	.5	2.0	1.6	0	.8	6.2	2.3	4.4
6	5.3	2.4	4.4	6.3	.9	3.1	1.4	0	.6	6.0	0	3.5
7	10.6	5.6	7.3	4.5	1.5	3.1	4.1	.5	2.6	8.7	3.2	5.7
8	11.3	7.1	8.9	4.1	1.1	2.4	6.1	4.3	5.3	7.0	3.7	5.1
9	10.2	6.5	7.5	4.6	1.5	2.9	7.9	3.9	5.4	3.3	0	.4
10	10.0	6.1	7.7	5.7	1.4	3.3	5.2	4.2	4.6	1.6	0	1.1
11	8.9	6.0	7.1	3.2	.9	2.0	9.5	3.6	5.8	1.3	0	.9
12	7.6	3.1	4.8	2.9	2.0	2.4	5.8	2.1	4.8	4.9	0	2.0
13	6.3	3.2	4.7	2.8	1.5	2.2	3.5	.5	1.8	---	---	---
14	7.7	5.6	6.6	5.0	2.0	2.9	2.5	1.0	1.7	---	---	---
15	6.8	6.0	6.4	5.6	4.5	5.0	1.5	.5	1.0	---	---	---
16	5.9	4.6	5.1	6.4	4.0	4.8	.8	0	.5	---	---	---
17	4.7	2.6	3.9	6.8	4.3	5.4	1.6	.6	1.2	---	---	---
18	3.4	1.3	2.4	4.6	3.3	3.9	1.8	.5	1.1	8.3	1.5	3.8
19	2.4	.3	1.1	5.5	2.9	4.1	.7	.5	.6	4.1	.6	2.3
20	3.7	.1	1.5	5.3	4.1	4.6	.9	0	.7	---	---	---
21	3.0	1.5	2.2	5.1	2.3	3.5	1.4	.9	1.1	---	---	---
22	5.0	1.0	2.8	3.4	2.5	3.1	1.5	1.1	1.3	---	---	---
23	3.0	0	2.0	6.1	3.0	4.2	3.7	.8	2.9	---	---	---
24	1.1	0	.2	6.8	1.8	3.9	3.7	2.8	3.2	---	---	---
25	.4	0	.1	4.3	2.2	3.2	3.5	2.4	3.1	7.8	5.0	6.3
26	2.2	0	.3	5.2	1.8	3.5	2.5	2.0	2.2	6.9	6.2	6.6
27	1.3	0	.3	5.0	2.5	3.6	3.0	1.6	2.4	---	---	---
28	2.3	0	.8	3.0	.1	1.9	2.1	.3	1.4	---	---	---
29	1.9	.3	1.1	.9	0	.7	3.2	.4	1.9	---	---	---
30	2.8	.8	1.9	6.3	.1	2.3	5.0	.9	3.8	---	---	---
31	---	---	---	2.3	.4	1.0	6.8	4.6	5.6	---	---	---
MONTH	11.3	0	3.4	6.8	0	2.8	9.5	0	2.4	---	---	---
PERIOD	14.5	0	7.0									

TEMPERATURE (°C) OF WATER, NOVEMBER 1974 TO SEPTEMBER 1975

DAY	NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.0	1.0	1.0	4.0	0.0	1.5
2	---	---	---	2.0	1.0	1.5	3.5	0.0	1.0
3	---	---	---	1.5	1.0	1.5	1.5	0.0	0.5
4	---	---	---	2.5	1.0	1.5	4.0	0.0	1.5
5	---	---	---	3.5	1.0	2.0	3.5	0.0	1.0
6	---	---	---	4.0	2.5	3.0	2.0	0.0	0.5
7	11.5	9.0	11.0	4.0	0.5	2.5	0.5	0.0	0.0
8	10.5	8.5	10.0	4.5	0.5	2.5	3.0	0.0	0.5
9	9.5	8.0	9.0	5.0	3.0	3.5	0.5	0.0	0.0
10	9.5	8.0	8.5	4.5	4.0	4.0	3.0	0.0	1.5
11	9.0	7.0	8.0	4.0	2.5	3.5	---	---	---
12	8.5	8.0	8.0	3.0	2.5	2.5	---	---	---
13	8.5	7.5	8.5	3.0	2.5	2.5	---	---	---
14	8.5	7.5	8.0	3.5	2.5	3.0	2.5	2.5	2.5
15	8.0	7.5	8.0	3.5	2.0	2.5	2.5	2.5	2.5
16	8.0	6.5	7.0	3.0	1.5	2.5	2.0	1.0	2.0
17	7.5	6.0	6.5	5.0	2.0	4.0	1.5	1.0	1.0
18	8.0	5.5	6.5	5.0	1.5	2.5	2.0	1.0	1.0
19	7.5	5.5	6.5	3.0	1.5	2.0	2.0	1.0	1.0
20	7.5	7.0	7.0	2.5	1.0	1.5	1.0	0.5	1.0
21	7.5	5.5	7.0	2.0	1.0	1.5	1.0	0.5	1.0
22	5.5	4.5	5.0	2.5	1.5	2.0	1.5	1.0	1.0
23	6.0	4.0	5.0	2.5	1.5	2.0	1.5	0.5	1.0
24	6.5	4.0	5.0	3.5	2.0	2.5	1.0	0.5	1.0
25	6.5	3.0	6.0	4.5	0.5	1.5	1.0	0.5	1.0
26	3.5	1.5	2.5	2.5	1.0	1.5	1.5	0.5	1.0
27	3.5	1.5	2.0	1.0	1.0	1.0	1.5	1.0	1.0
28	6.0	1.5	3.5	2.0	0.0	1.0	1.5	1.0	1.0
29	3.0	1.0	2.5	4.0	0.0	2.5	1.0	1.0	1.0
30	2.5	0.5	1.5	4.5	3.0	3.5	2.5	1.0	1.5
31	---	---	---	4.5	0.0	2.0	2.0	1.5	1.5
MONTH	11.5	0.5	6.5	5.0	0.0	2.5	4.0	0.0	1.0

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TEMPERATURE (°C) OF WATER, NOVEMBER 1974 TO SEPTEMBER 1975.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.0	1.5	3.5	2.5	2.5	6.0	3.5	4.5	14.0	11.5	12.0
2	1.5	1.0	1.0	3.0	2.5	2.5	6.5	4.0	5.5	13.0	11.5	12.0
3	1.5	0.5	1.0	3.0	2.0	2.5	8.0	4.5	6.0	16.5	12.0	13.5
4	1.5	0.5	1.0	3.0	2.0	2.5	7.0	5.0	6.0	15.0	14.0	14.5
5	1.0	0.5	0.5	4.0	2.0	2.5	5.0	4.0	4.5	15.0	13.5	14.0
6	1.5	0.5	1.0	3.0	2.0	2.5	6.0	4.0	4.5	16.5	12.0	14.5
7	1.5	0.5	1.0	3.0	1.5	2.5	6.0	4.5	5.5	17.5	12.0	14.0
8	1.5	0.5	1.0	4.0	2.0	3.0	7.0	5.0	6.0	18.0	13.5	15.0
9	1.0	0.5	0.5	3.5	1.5	2.5	8.0	6.5	7.0	17.0	13.0	14.5
10	1.0	0.5	0.5	3.0	1.5	2.5	9.0	5.5	7.5	15.0	12.0	13.5
11	2.0	0.5	1.0	3.5	2.0	2.5	9.5	7.0	8.0	16.0	12.0	14.0
12	2.0	0.5	1.0	2.5	2.0	2.0	10.0	8.0	8.5	17.0	12.0	14.5
13	2.5	0.5	1.0	3.5	2.0	2.5	9.5	8.0	8.5	---	---	---
14	2.5	0.5	1.0	3.0	2.0	2.5	11.0	7.5	9.5	19.5	15.5	17.5
15	1.0	0.5	1.0	4.0	1.5	2.5	10.5	9.0	9.5	20.5	14.5	17.5
16	1.0	1.0	1.0	5.0	2.0	3.0	11.5	9.0	10.0	20.0	15.0	16.5
17	1.5	1.0	1.0	6.0	2.0	4.0	12.0	9.5	10.5	21.0	14.5	17.0
18	1.5	1.0	1.5	6.5	3.0	4.5	11.0	9.0	10.0	18.5	12.0	15.5
19	2.0	1.0	1.5	6.5	4.5	5.5	11.0	10.0	10.5	22.5	15.5	18.0
20	2.5	1.5	1.5	7.0	6.0	6.0	12.5	10.0	10.5	24.0	16.5	20.0
21	2.5	1.5	2.0	6.5	5.5	6.5	12.0	9.5	10.5	23.5	16.5	20.5
22	3.0	1.5	2.0	6.0	4.5	5.0	12.5	9.0	10.5	23.5	18.5	21.5
23	2.5	2.0	2.5	6.0	4.5	5.0	14.0	10.0	11.5	25.0	20.0	22.5
24	2.5	2.5	2.5	6.0	4.5	5.0	12.0	10.5	11.5	26.5	21.5	23.5
25	3.0	2.0	2.5	6.5	6.0	6.0	14.5	11.0	12.5	23.0	21.0	21.5
26	2.5	2.0	2.5	6.5	5.5	6.0	15.0	12.0	13.0	23.0	19.5	21.0
27	3.0	2.0	2.5	5.5	3.5	4.5	12.5	11.0	11.5	23.0	20.5	23.0
28	4.5	2.5	3.5	6.0	3.5	4.5	14.0	10.0	12.0	23.5	16.0	19.5
29	---	---	---	5.5	4.5	5.0	15.0	11.0	12.5	23.5	12.0	18.5
30	---	---	---	5.5	4.5	5.0	17.0	10.5	13.0	21.5	17.5	18.5
31	---	---	---	6.0	3.0	4.5	---	---	---	23.5	17.5	19.0
MONTH	4.5	0.5	1.5	7.0	1.5	4.0	17.0	3.5	9.0	26.5	11.5	17.0
	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	18.0	22.0	23.0	20.0	21.5	---	---	---	18.5	16.0	17.5
2	24.5	18.0	22.5	24.5	19.0	22.0	---	---	---	17.5	16.0	17.0
3	23.5	18.0	21.0	30.5	22.5	25.0	---	---	---	20.5	16.0	17.0
4	23.5	16.5	20.5	32.0	23.5	28.5	---	---	---	23.0	18.5	20.0
5	22.5	17.5	18.5	32.0	22.0	28.5	---	---	---	23.5	18.0	21.0
6	20.0	14.5	17.5	31.5	24.0	27.0	25.5	20.0	22.0	22.5	18.0	21.0
7	23.0	16.0	19.0	33.0	23.0	25.5	25.0	18.5	19.5	22.5	17.0	19.5
8	22.0	15.5	19.0	31.5	25.0	28.5	19.5	17.5	18.0	22.5	19.0	21.0
9	23.5	15.0	18.0	31.5	24.0	27.5	24.0	17.5	19.5	22.5	18.5	21.0
10	25.0	14.5	19.0	26.5	23.5	25.0	23.5	17.5	19.5	21.5	16.0	18.5
11	26.5	15.0	20.5	25.5	20.0	22.5	24.0	17.5	18.5	20.5	15.5	17.5
12	21.0	19.0	20.0	22.0	20.0	20.5	21.0	18.5	19.5	20.0	16.0	18.5
13	19.5	17.5	18.5	22.0	19.5	20.5	27.5	18.5	22.5	19.0	15.0	16.5
14	20.5	18.0	19.0	21.0	19.0	20.0	25.0	21.0	23.0	16.5	15.0	16.0
15	19.0	16.5	18.0	24.0	19.5	21.5	24.5	21.5	23.0	19.5	14.5	17.0
16	23.5	16.5	17.5	27.0	20.5	23.0	28.0	22.5	24.5	18.5	16.5	17.5
17	24.0	16.5	20.0	28.5	21.0	24.5	22.5	21.5	22.0	20.0	16.0	18.0
18	25.0	17.5	20.5	29.5	21.5	25.0	25.5	22.0	23.5	19.5	16.5	17.5
19	27.0	18.0	22.5	30.0	22.5	24.0	24.5	22.0	23.5	19.5	16.5	18.0
20	24.5	18.0	20.5	24.0	22.5	23.0	26.0	22.0	23.0	17.0	16.0	16.5
21	26.0	17.5	21.5	29.0	22.0	25.0	23.5	20.5	22.5	---	---	---
22	26.5	18.5	21.0	29.5	23.0	25.5	23.5	22.0	23.0	---	---	---
23	27.5	18.5	22.5	26.5	24.0	25.0	23.0	20.0	21.5	---	---	---
24	28.5	19.0	24.5	27.0	24.0	25.5	22.5	20.0	20.5	---	---	---
25	27.0	20.0	23.5	25.5	24.5	25.0	22.0	20.5	21.0	16.0	13.5	15.5
26	26.0	21.0	24.0	31.0	23.0	25.5	22.0	20.5	21.0	13.5	13.0	13.5
27	25.5	21.0	24.0	28.0	23.5	25.5	23.5	18.0	20.0	15.0	13.5	14.5
28	25.0	21.0	23.0	25.5	23.0	24.5	20.5	16.5	18.0	15.0	14.5	14.5
29	26.0	21.0	22.5	30.0	23.0	25.0	23.0	16.5	19.0	15.5	14.0	14.5
30	23.5	20.0	21.0	31.0	22.5	25.5	23.0	15.5	16.5	16.0	14.0	15.0
31	---	---	---	26.5	24.0	25.5	17.0	15.5	16.0	---	---	---
MONTH	28.5	14.5	20.5	33.0	19.0	24.5	28.0	15.5	21.0	23.5	13.0	17.5
PERIOD	33.0	0.0	11.5									

CONNECTICUT RIVER BASIN

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'46", long 72°35'43", Hampden County, on right bank at powerplant intake 800 ft (250 m) downstream from Memorial Bridge, 1.1 mi (1.8 km) upstream from Westfield River, 1.5 mi (2.4 km) southeast of West Springfield, and 4.4 mi (7.1 km) downstream from Chicopee River.

DRAINAGE AREA.--9,623 mi² (24,924 km²).

PERIOD OF RECORD.--CHEMICAL ANALYSES: August 1972 to current year.
WATER TEMPERATURES: August 1972 to current year.

INSTRUMENTATION.--Four-parameter water-quality monitor.

REMARKS.--Recorder not operating May 20 to September 30.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 268 micromhos Jan. 19, 1974; minimum, 54 micromhos July 1, 1973.

pH: Maximum recorded, 8.9 Feb. 1, 1975; minimum, 6.2 Sept. 30, 1974.

DISSOLVED OXYGEN: Maximum, 16.3 mg/l Jan. 6, 1973; minimum, 2.7 mg/l Sept. 5, 1973.

WATER TEMPERATURES: Maximum, 30.5°C Sept. 3, 1973; minimum, freezing point on several days during winter period each year.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, 177 micromhos Feb. 19; minimum recorded, 69 micromhos May 7, 8.

pH: Maximum recorded, 8.9 Feb. 1; minimum recorded, 6.5 Dec. 24, 25, May 20.

DISSOLVED OXYGEN: Maximum recorded, 14.1 mg/l Dec. 28; minimum not determined, probably occurred during period of missing record in late summer.

WATER TEMPERATURES: Maximum not determined, probably occurred during period of missing record in late summer; minimum, freezing point on Feb. 13, 14.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	127	120	123	126	120	124	124	121	123	141	110	123
2	121	119	120	126	118	122	143	121	128	138	113	121
3	126	121	124	127	123	125	126	118	122	117	110	113
4	128	125	127	129	121	124	119	115	117	119	110	114
5	128	126	127	128	118	124	117	107	112	119	110	113
6	129	125	127	125	119	123	109	107	108	111	108	110
7	130	126	127	119	109	115	132	107	113	121	109	113
8	128	125	127	114	109	112	123	111	114	122	113	118
9	129	122	125	115	113	114	121	113	116	137	118	127
10	128	115	122	116	113	115	111	99	105	129	117	121
11	118	113	116	117	113	115	105	100	103	128	118	122
12	119	113	117	119	111	116	107	103	105	124	117	119
13	120	114	116	119	111	116	104	102	103	132	115	120
14	121	115	118	120	110	117	---	---	---	128	115	121
15	124	115	117	119	111	115	---	---	---	---	---	---
16	119	113	116	123	112	113	---	---	---	120	117	118
17	119	116	118	113	110	111	---	---	---	118	115	116
18	119	117	118	130	112	124	---	---	---	164	115	125
19	117	112	114	132	123	128	104	100	101	175	132	144
20	123	114	117	128	115	122	103	99	100	146	125	133
21	125	114	119	123	113	117	108	102	105	127	121	125
22	---	---	---	122	106	113	109	104	107	121	115	118
23	---	---	---	115	106	111	111	105	107	121	116	118
24	---	---	---	121	106	114	112	107	110	125	121	122
25	---	---	---	122	119	120	109	103	106	152	121	128
26	---	---	---	119	110	113	109	105	107	124	117	119
27	---	---	---	116	111	114	109	104	107	119	113	117
28	---	---	---	116	112	114	113	101	107	119	115	117
29	---	---	---	116	112	114	114	108	110	131	119	123
30	---	---	---	123	114	118	119	108	112	124	114	117
31	123	120	121	---	---	---	112	108	110	117	110	114
MONTH	---	---	---	132	106	117	143	99	110	175	108	120

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	125	112	115	---	---	---	99	77	91	---	---	---
2	118	112	115	---	---	---	91	85	89	85	78	81
3	118	113	115	---	---	---	100	73	89	81	78	80
4	118	114	115	---	---	---	113	86	100	79	77	78
5	114	111	112	---	---	---	112	105	108	79	75	77
6	138	113	125	---	---	---	112	105	109	77	72	74
7	139	127	131	---	---	---	115	111	113	73	69	71
8	134	125	130	---	---	---	118	114	116	73	69	71
9	151	128	134	---	---	---	121	118	119	78	70	74
10	141	131	136	---	---	---	125	119	122	79	76	77
11	135	129	132	---	---	---	130	124	127	89	77	80
12	129	127	128	---	---	---	131	127	129	91	81	84
13	140	128	133	120	113	115	131	127	129	104	88	92
14	147	130	137	118	113	115	---	---	---	89	82	85
15	152	131	139	175	118	132	---	---	---	81	78	80
16	152	133	140	137	123	128	---	---	---	82	79	80
17	153	132	138	128	122	126	113	109	112	81	79	80
18	164	134	144	129	117	122	117	109	112	82	80	81
19	177	135	141	147	116	122	111	103	106	83	81	82
20	137	129	132	130	107	119	112	86	98	---	---	---
21	133	126	128	107	91	99	---	---	---	---	---	---
22	128	118	123	91	81	84	---	---	---	---	---	---
23	138	128	131	93	90	92	---	---	---	---	---	---
24	156	129	135	94	88	91	---	---	---	---	---	---
25	133	121	127	93	87	91	---	---	---	---	---	---
26	119	112	114	95	88	92	---	---	---	---	---	---
27	115	105	109	95	72	83	---	---	---	---	---	---
28	---	---	---	96	73	87	---	---	---	---	---	---
29	---	---	---	98	95	97	---	---	---	---	---	---
30	---	---	---	102	96	97	---	---	---	---	---	---
31	---	---	---	99	97	98	---	---	---	---	---	---
MONTH	177	105	128	---	---	---	---	---	---	---	---	---
PERIOD	177	69	113									

PH (UNITS), OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.9	6.9	6.9	7.1	7.1	7.1	7.0	6.6	6.7
2	---	---	---	6.9	6.8	6.9	7.1	7.0	7.1	7.0	6.6	6.8
3	7.1	6.7	6.9	6.9	6.8	6.8	7.1	7.0	7.1	7.0	6.6	6.8
4	7.1	6.8	7.0	6.9	6.8	6.8	7.1	7.0	7.1	7.2	6.8	7.1
5	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.0	7.1	7.0	6.6	6.8
6	7.0	6.9	7.0	6.9	6.7	6.8	7.2	7.0	7.1	7.0	6.6	6.9
7	7.0	6.8	6.9	7.0	6.8	6.9	7.3	7.1	7.2	7.0	6.6	6.9
8	7.0	6.9	6.9	7.0	6.9	6.9	7.2	7.1	7.2	7.0	6.7	6.8
9	7.0	6.8	6.9	7.0	6.9	6.9	7.2	7.1	7.1	7.2	6.7	7.0
10	7.0	6.7	6.8	6.9	6.9	6.9	7.2	7.1	7.1	7.3	6.9	7.2
11	7.0	6.9	6.9	6.9	6.9	6.9	7.2	7.2	7.2	7.3	6.8	7.2
12	7.0	6.9	6.9	7.0	6.9	6.9	7.2	7.2	7.2	7.2	7.2	7.2
13	6.9	6.8	6.8	7.0	6.9	6.9	7.2	7.2	7.2	7.2	7.2	7.2
14	6.8	6.6	6.7	7.0	7.0	7.0	---	---	---	7.2	7.2	7.2
15	6.9	6.6	6.8	7.0	7.0	7.0	---	---	---	---	---	---
16	6.8	6.6	6.7	7.0	6.9	7.0	---	---	---	7.2	7.0	7.1
17	7.1	6.7	6.9	7.0	6.9	6.9	---	---	---	7.2	7.1	7.2
18	7.1	7.1	7.1	7.0	6.9	6.9	---	---	---	7.2	7.0	7.2
19	7.1	7.1	7.1	6.9	6.9	6.9	7.1	6.6	6.7	7.2	7.1	7.1
20	7.1	7.0	7.1	7.0	6.9	6.9	7.1	6.6	6.7	7.1	7.0	7.1
21	7.1	7.0	7.0	7.1	6.9	7.0	7.1	6.6	6.7	7.1	7.0	7.1
22	---	---	---	7.1	7.1	7.1	7.0	6.6	6.8	7.1	7.0	7.0
23	---	---	---	7.1	7.1	7.1	7.0	6.6	7.0	7.3	6.8	7.0
24	---	---	---	7.1	7.0	7.1	7.0	6.5	6.9	7.4	7.3	7.4
25	---	---	---	7.1	7.0	7.1	6.8	6.5	6.6	7.4	7.3	7.4
26	---	---	---	7.1	7.0	7.1	7.0	6.6	6.7	7.5	7.4	7.4
27	---	---	---	7.1	7.0	7.1	7.0	6.7	6.9	7.5	7.5	7.5
28	---	---	---	7.1	7.1	7.1	7.1	6.6	6.9	7.5	7.5	7.5
29	---	---	---	7.1	7.0	7.1	7.0	6.7	7.0	7.6	7.5	7.6
30	---	---	---	7.1	7.1	7.1	7.0	6.7	6.8	7.7	7.5	7.6
31	7.0	6.9	6.9	---	---	---	7.0	6.6	6.8	7.9	7.3	7.7
MONTH	---	---	---	7.1	6.7	7.0	7.3	6.5	7.0	7.9	6.6	7.2

CONNECTICUT RIVER BASIN

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.9	7.6	7.8	---	---	---	7.5	7.4	7.5	---	---	---
2	7.7	7.7	7.7	---	---	---	7.4	7.4	7.4	7.1	6.8	7.0
3	7.6	7.6	7.6	---	---	---	7.4	7.2	7.3	7.2	7.1	7.2
4	7.6	7.4	7.5	---	---	---	7.5	7.2	7.4	7.2	7.1	7.1
5	7.5	7.4	7.4	---	---	---	7.5	7.5	7.5	7.1	7.0	7.1
6	7.6	7.3	7.4	---	---	---	7.5	7.5	7.5	7.1	7.0	7.1
7	7.7	7.3	7.6	---	---	---	7.5	7.5	7.5	7.1	7.0	7.0
8	7.7	7.3	7.6	---	---	---	7.5	7.4	7.5	7.0	7.0	7.0
9	7.6	7.3	7.6	---	---	---	7.5	7.3	7.5	7.0	6.6	6.9
10	7.5	7.3	7.5	---	---	---	7.5	7.4	7.5	7.0	6.7	7.0
11	7.5	7.1	7.4	---	---	---	7.6	7.4	7.5	7.0	6.9	6.9
12	7.4	7.0	7.3	---	---	---	7.6	7.3	7.6	6.9	6.8	6.9
13	7.3	7.0	7.1	7.2	6.8	7.0	7.6	7.5	7.6	6.9	6.5	6.8
14	7.2	7.2	7.2	7.3	6.9	7.1	---	---	---	7.0	6.9	6.9
15	7.3	7.1	7.2	7.0	6.9	6.9	---	---	---	6.9	6.9	6.9
16	7.3	7.1	7.2	6.9	6.8	6.9	---	---	---	6.9	6.9	6.9
17	7.2	7.0	7.2	6.8	6.8	6.8	7.2	7.2	7.2	6.9	6.9	6.9
18	7.3	7.2	7.2	7.2	6.8	6.9	7.3	7.2	7.2	6.9	6.8	6.9
19	7.3	7.2	7.2	7.2	6.8	7.0	7.3	7.2	7.3	6.9	6.5	6.8
20	7.3	7.2	7.3	7.3	6.9	7.1	7.3	7.2	7.3	---	---	---
21	7.3	7.1	7.3	7.4	6.8	7.2	---	---	---	---	---	---
22	7.3	7.1	7.2	7.3	7.3	7.3	---	---	---	---	---	---
23	7.2	7.2	7.2	7.4	7.4	7.4	---	---	---	---	---	---
24	7.3	7.1	7.2	7.4	7.3	7.3	---	---	---	---	---	---
25	7.3	7.2	7.2	7.4	7.3	7.4	---	---	---	---	---	---
26	7.3	7.0	7.2	7.4	7.4	7.4	---	---	---	---	---	---
27	7.3	7.0	7.2	7.5	7.4	7.5	---	---	---	---	---	---
28	---	---	---	7.5	7.5	7.5	---	---	---	---	---	---
29	---	---	---	7.5	7.5	7.5	---	---	---	---	---	---
30	---	---	---	7.5	7.4	7.5	---	---	---	---	---	---
31	---	---	---	7.5	7.4	7.5	---	---	---	---	---	---
MONTH	8.9	7.0	7.4	---	---	---	---	---	---	---	---	---
PERIOD	8.9	6.5	7.1									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.9	8.1	9.3	8.9	9.1	13.1	12.6	12.9	13.4	12.7	13.1
2	8.4	8.2	8.3	8.9	8.5	8.7	12.5	12.0	12.2	13.0	12.5	12.8
3	8.8	8.4	8.7	8.9	8.5	8.8	11.6	10.7	11.2	13.5	12.9	13.2
4	9.0	8.8	8.9	8.5	8.0	8.3	12.3	11.2	11.7	13.7	12.8	13.2
5	9.0	8.9	9.0	8.4	8.1	8.3	12.5	11.9	12.2	13.7	12.8	13.3
6	8.9	8.7	8.8	8.8	8.4	8.6	13.1	12.3	12.6	13.3	12.5	12.9
7	8.6	8.1	8.4	9.1	8.8	9.0	13.5	12.4	13.0	13.3	12.5	13.0
8	8.5	8.3	8.4	9.5	9.1	9.4	12.5	9.6	11.6	13.3	12.4	12.8
9	8.5	8.2	8.3	9.5	9.4	9.4	10.7	10.2	10.4	12.5	12.1	12.3
10	8.4	8.3	8.4	9.5	9.3	9.4	11.8	10.3	11.0	12.5	11.9	12.2
11	8.4	8.2	8.3	9.6	9.3	9.4	12.3	11.8	12.0	11.9	11.0	11.4
12	8.4	8.2	8.3	9.6	9.3	9.4	12.2	11.7	11.9	11.3	10.7	11.0
13	8.3	8.0	8.2	9.8	9.3	9.4	12.0	11.7	11.8	11.4	10.8	11.1
14	8.3	8.0	8.2	9.9	9.8	9.9	---	---	---	12.1	11.5	11.8
15	8.2	7.9	8.0	10.2	9.9	10.0	---	---	---	---	---	---
16	8.3	8.0	8.2	10.7	10.2	10.5	---	---	---	13.3	12.9	13.0
17	8.8	8.2	8.5	11.2	10.8	11.0	---	---	---	13.7	13.1	13.4
18	9.3	8.8	9.0	11.4	11.2	11.3	---	---	---	13.6	13.0	13.4
19	9.6	9.3	9.5	11.4	10.9	11.1	12.6	12.2	12.5	13.0	11.8	12.4
20	10.1	9.7	9.8	10.9	10.5	10.7	13.0	12.4	12.6	12.9	10.0	11.6
21	10.3	10.1	10.2	11.0	10.5	10.7	12.6	12.1	12.4	13.0	12.1	12.7
22	---	---	---	11.7	10.6	11.2	12.2	11.9	12.1	12.9	12.4	12.7
23	---	---	---	12.3	11.4	12.0	12.4	11.7	12.0	12.7	12.2	12.4
24	---	---	---	12.1	12.0	12.1	11.8	11.5	11.7	12.4	11.6	12.0
25	---	---	---	11.8	11.3	11.5	12.3	11.9	12.1	11.7	11.2	11.5
26	---	---	---	12.6	11.1	11.9	12.9	12.2	12.7	11.6	11.2	11.4
27	---	---	---	13.0	12.3	12.7	13.5	12.9	13.1	12.3	11.6	12.1
28	---	---	---	12.8	12.2	12.5	14.1	13.4	13.7	12.4	11.5	11.9
29	---	---	---	13.0	12.3	12.7	13.6	12.8	13.2	11.9	11.4	11.7
30	---	---	---	12.9	12.3	12.6	13.0	12.5	12.8	12.2	11.6	11.9
31	9.3	9.0	9.1	---	---	---	13.2	12.7	12.9	12.4	12.0	12.2
MONTH	---	---	---	13.0	8.0	10.4	14.1	9.6	12.2	13.7	10.0	12.3

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.6	12.0	12.3	---	---	---	12.0	11.2	11.6	---	---	---
2	12.7	12.0	12.3	---	---	---	11.8	11.2	11.5	11.2	11.0	11.1
3	12.7	12.0	12.4	---	---	---	11.7	10.2	11.0	11.3	10.6	11.0
4	12.9	12.5	12.7	---	---	---	12.5	11.5	12.0	11.0	10.8	10.9
5	12.8	12.7	12.8	---	---	---	13.1	12.6	12.9	11.2	11.0	11.1
6	12.9	12.2	12.6	---	---	---	13.1	12.3	12.7	11.5	11.0	11.2
7	12.4	11.9	12.2	---	---	---	12.6	11.9	12.3	11.4	10.6	11.0
8	12.4	11.8	12.1	---	---	---	12.4	11.5	12.0	11.0	10.5	10.8
9	12.0	11.7	11.9	---	---	---	11.9	10.7	11.3	10.8	10.4	10.6
10	11.9	10.6	11.1	---	---	---	11.2	10.1	10.7	10.5	10.1	10.3
11	11.6	10.5	11.1	---	---	---	10.4	9.5	10.0	10.2	9.7	9.9
12	11.5	11.1	11.4	---	---	---	10.0	9.3	9.6	9.8	9.2	9.5
13	11.3	10.8	11.1	12.1	11.9	12.0	9.8	9.3	9.6	9.4	9.1	9.2
14	11.4	11.1	11.2	12.9	12.0	12.4	---	---	---	9.4	9.2	9.3
15	11.4	11.1	11.3	13.5	12.4	12.9	---	---	---	9.3	8.9	9.2
16	11.5	11.2	11.3	12.9	11.4	12.1	---	---	---	8.9	8.4	8.6
17	11.6	10.9	11.2	11.5	8.4	10.4	11.5	10.8	11.1	8.4	8.2	8.3
18	11.2	10.8	11.0	10.4	8.9	9.5	11.1	10.9	11.0	8.3	8.0	8.2
19	11.3	10.8	11.0	10.3	8.9	9.5	11.5	10.9	11.2	8.0	7.7	7.9
20	11.6	10.9	11.2	10.7	8.5	9.5	12.4	11.3	11.7	---	---	---
21	11.8	11.1	11.4	12.4	10.7	11.4	---	---	---	---	---	---
22	12.1	10.9	11.5	12.5	11.7	12.2	---	---	---	---	---	---
23	11.2	10.4	10.8	12.6	11.6	12.1	---	---	---	---	---	---
24	10.7	10.3	10.5	11.8	10.7	11.3	---	---	---	---	---	---
25	11.5	10.9	11.1	11.4	10.8	11.2	---	---	---	---	---	---
26	12.5	11.9	12.3	11.6	10.5	11.1	---	---	---	---	---	---
27	13.0	12.3	12.7	12.2	11.1	11.7	---	---	---	---	---	---
28	---	---	---	12.8	11.4	12.1	---	---	---	---	---	---
29	---	---	---	12.1	11.5	11.8	---	---	---	---	---	---
30	---	---	---	11.9	11.5	11.7	---	---	---	---	---	---
31	---	---	---	12.0	11.5	11.7	---	---	---	---	---	---
MONTH	13.0	10.3	11.6	---	---	---	---	---	---	---	---	---
PERIOD	14.1	7.7	11.1									

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	16.0	16.0	11.0	9.5	10.5	2.5	2.0	2.0	2.0	1.5	1.5
2	15.5	15.0	15.5	11.5	10.5	11.0	2.5	2.0	2.0	2.0	1.5	2.0
3	15.0	14.0	14.5	11.0	10.0	10.5	3.0	2.5	2.5	1.5	1.0	1.5
4	14.0	13.5	13.5	12.0	11.0	11.5	2.5	1.5	2.0	1.5	1.0	1.5
5	14.0	13.0	13.5	11.5	11.0	11.0	2.0	1.5	1.5	1.5	1.0	1.0
6	14.5	13.5	14.0	1.0	10.5	10.5	1.5	1.0	1.5	1.5	1.0	1.0
7	14.5	14.0	14.0	10.5	10.0	10.5	1.5	1.0	1.0	1.5	1.0	1.0
8	14.0	13.5	14.0	10.0	9.5	9.5	4.0	1.5	2.0	1.5	1.0	1.0
9	14.0	13.5	13.5	10.0	9.5	9.5	3.5	3.0	3.0	1.5	1.0	1.5
10	14.0	13.0	13.5	9.5	9.0	9.5	3.0	2.0	2.5	1.5	1.0	1.0
11	14.0	13.0	13.5	9.5	9.0	9.5	2.5	2.0	2.0	2.0	1.5	1.5
12	13.5	13.0	13.5	9.5	9.0	9.0	2.5	2.0	2.0	2.0	1.5	2.0
13	13.5	13.0	13.5	9.5	8.5	9.0	2.0	2.0	2.0	2.0	1.5	2.0
14	13.5	13.0	13.0	9.0	8.5	8.5	---	---	---	1.5	1.0	1.5
15	14.0	13.5	13.5	8.5	7.5	8.0	---	---	---	---	---	---
16	14.0	12.5	13.0	7.5	6.5	7.0	---	---	---	1.0	0.5	1.0
17	13.0	12.5	12.5	6.5	6.0	6.5	---	---	---	1.0	0.5	0.5
18	12.5	11.0	12.0	6.5	6.0	6.0	---	---	---	1.0	0.5	0.5
19	11.0	10.5	10.5	6.5	5.5	6.0	2.5	2.0	2.5	1.0	0.5	1.0
20	10.5	9.0	10.0	7.0	6.5	6.5	2.5	2.0	2.0	2.5	0.5	1.5
21	9.0	8.5	9.0	7.0	6.0	6.5	2.5	2.0	2.5	1.0	0.5	0.5
22	---	---	---	6.0	5.0	5.5	2.5	2.5	2.5	1.0	0.5	0.5
23	---	---	---	5.0	4.5	4.5	3.0	2.0	2.5	1.0	0.5	0.5
24	---	---	---	4.5	4.0	4.5	3.0	2.5	3.0	1.0	0.5	1.0
25	---	---	---	4.5	4.5	4.5	2.5	2.5	2.5	1.5	1.0	1.0
26	---	---	---	4.5	3.0	4.0	2.5	2.0	2.0	1.5	1.0	1.0
27	---	---	---	3.0	2.5	3.0	2.0	1.5	1.5	1.0	0.5	0.5
28	---	---	---	3.0	2.5	3.0	1.5	1.5	1.5	1.0	0.5	1.0
29	---	---	---	3.0	2.5	2.5	2.0	1.5	2.0	1.0	1.0	1.0
30	---	---	---	2.5	2.0	2.5	2.0	2.0	2.0	1.0	0.5	1.0
31	10.5	10.0	10.0	---	---	---	2.0	1.5	2.0	1.0	0.5	0.5
MONTH	---	---	---	12.0	2.0	7.5	4.0	1.0	2.0	2.5	0.5	1.0

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO MAY 1975.--Continued

01179500 WESTFIELD RIVER AT KNIGHTVILLE, MASS.

LOCATION.--Lat 42°17'16", long 72°51'53", Hampshire County, on left bank at Knightville, 0.2 mi (0.3 km) downstream from Knightville Dam, 0.2 mi (0.3 km) upstream from Sykes Brook, 2.4 mi (3.9 km) upstream from Middle Branch, 3.5 mi (5.6 km) north of Huntington, and at mile 29.7 (47.8 km).

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--Discharge: August 1909 to current year.

Chemical analyses: Water year 1953 (partial-record station).

Water temperatures: Water year 1953 (partial-record station).

GAGE.--Water-stage recorder. Concrete control since Dec. 20, 1940. Datum of gage is 461.25 ft (140.589 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 11, 1935, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Jan. 11, 1935, to May 20, 1940, water-stage recorder at site 700 ft (200 m) upstream at datum 10.57 ft (3.222 m) higher. May 21 to Dec. 19, 1940, nonrecording gage at site 700 ft (200 m) upstream at datum 18.75 ft (5.715 m) higher.

REVISIONS (WATER YEARS).--WSP 415: 1909-12. WSP 1001: 1941-43. WSP 1231: 1910, 1912, 1913(M), 1914-15, 1916-19(M), 1921-23(M), 1925-27(M), 1929-33(M), 1935(M).

REMARKS.--Records excellent. Flow regulated by Knightville Reservoir since 1941 (see p. 245).

AVERAGE DISCHARGE.--66 years, 323 ft³/s (9.147 m³/s), 27.08 in/yr (688 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 37,900 ft³/s (1,070 m³/s) Sept. 21, 1938 (gage height, 29.58 ft or 9.016 m, from floodmarks, site and datum then in use), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of slope-area measurements at gage heights 24.07 and 29.58 ft (7.337 and 9.016 m); minimum, 0.1 ft³/s (0.003 m³/s) Apr. 3, 1965; minimum daily, 1.1 ft³/s (0.031 m³/s) Apr. 2, 1965. Maximum discharge since construction of Knightville Reservoir in 1941, 6,660 ft³/s (189 m³/s) Mar. 21, 1945 (gage height, 7.45 ft or 2.271 m).
Current year: Maximum discharge, 4,040 ft³/s (114 m³/s) Apr. 4 (gage height, 6.38 ft or 1.945 m); minimum, 18 ft³/s (0.51 m³/s) Feb. 28; minimum daily, 57 ft³/s (1.61 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	145	186	217	357	484	792	407	193	116	105	261
2	189	130	302	214	323	435	639	454	225	89	97	190
3	161	124	468	189	287	401	584	582	182	79	87	166
4	167	219	322	181	235	354	2360	495	725	80	111	140
5	162	455	243	187	235	319	1790	920	427	72	175	122
6	139	601	226	150	238	352	1140	569	774	65	138	120
7	114	358	209	140	245	378	1560	450	1250	59	293	137
8	102	266	607	149	245	302	1680	373	516	57	2150	115
9	95	221	1750	208	238	255	1420	331	328	76	2970	115
10	91	196	716	242	195	238	568	303	260	76	802	107
11	93	181	513	357	186	300	430	313	215	71	406	92
12	89	183	474	568	185	320	692	326	381	65	483	105
13	84	759	400	641	180	308	667	1330	2320	558	328	199
14	80	551	370	532	181	306	905	1250	2040	1010	251	137
15	79	398	375	278	180	297	671	609	852	1760	203	110
16	257	327	329	238	260	286	692	504	551	1380	179	101
17	704	277	380	245	200	252	857	435	473	325	186	96
18	309	255	467	242	185	316	1070	357	383	281	182	94
19	212	238	334	375	191	330	1330	319	312	234	153	114
20	177	299	300	423	204	632	1550	281	260	287	135	310
21	156	1220	302	296	209	2540	1080	248	216	754	121	222
22	145	861	298	253	207	1590	767	225	189	599	115	167
23	138	443	289	253	211	1510	700	246	169	298	106	186
24	132	372	279	211	700	1570	981	257	151	211	101	483
25	133	370	241	226	1950	2010	1060	187	135	609	133	1180
26	149	332	225	448	1660	2050	853	172	121	361	126	1530
27	135	252	176	592	954	903	671	159	111	233	122	1020
28	122	254	217	414	498	714	540	172	103	183	100	2650
29	121	251	228	394	---	777	469	144	103	152	86	2910
30	116	213	221	539	---	841	428	132	145	131	868	2320
31	141	---	218	525	---	712	---	192	---	115	568	---
TOTAL	5033	10751	11665	9927	10939	22082	28946	12742	14110	10386	11880	15499
MEAN	162	358	376	320	391	712	965	411	470	335	383	517
MAX	704	1220	1750	641	1950	2540	2360	1330	2320	1760	2970	2910
MIN	79	124	176	140	180	238	428	132	103	57	86	92
MEAN†	162	358	382	322	391	762	906	411	470	335	384	555
CFSM†	1.00	2.21	2.36	1.99	2.41	4.70	5.59	2.54	2.90	2.07	2.37	3.43
IN.†	1.15	2.47	2.72	2.29	2.52	5.43	6.24	2.93	3.24	2.38	2.73	3.82
CAL YR 1974 TOTAL	127608			350	2300	25		346	2.14		29.03	
WTR YR 1975 TOTAL	163960			449	2970	57		452	2.79		37.91	

† Adjusted for change in contents in Knightville Reservoir.

01180500 MIDDLE BRANCH WESTFIELD RIVER AT GOSS HEIGHTS, MASS.

LOCATION---Lat 42°15'31", long 72°52'23", Hampshire County, on right bank at upstream side of highway bridge at Goss Heights, 0.3 mi (0.5 km) upstream from mouth, 0.7 mi (1.1 km) downstream from Littleville Dam, and 1.7 mi (2.7 km) north of Huntington.

DRAINAGE AREA--52.6 mi² (136.2 km²).

PERIOD OF RECORD--Discharge: July 1910 to current year.

GAGE--Water-stage recorder. Datum of gage is 399.30 ft (121.707 m) above mean sea level. Prior to June 25, 1930, datum was 2.00 ft (0.610 m) higher, and June 25, 1930, to Sept. 30, 1964, datum was 1.00 ft (0.305 m) higher. Prior to Sept. 8, 1912, nonrecording gage at same site.

REVISIONS (WATER YEARS)---WSP 415: 1910-13. WSP 781: 1933(M), drainage area.

REMARKS--Records good except those for period of doubtful gage-height record, which are fair. Some diurnal fluctuation at low flow prior to 1952 caused by mill above station. Flow regulated by Littleville Lake (see p. 245) since 1965.

AVERAGE DISCHARGE--65 years, 104 ft³/s (2.945 m³/s), 26.85 in/yr (682 mm/yr), adjusted for storage.

EXTREMES---Period of record: Maximum discharge, 19,900 ft³/s (564 m³/s) Sept. 21, 1938 (gage height, 11.61 ft or 3.539 m, present datum), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of mean of two contracted-opening measurements of peak flow; maximum gage height, 14.87 ft (4.532 m), present datum, Mar. 12, 1936 (ice jam); practically no flow Sept. 3, 22, Oct. 20, 1910, July 30, 1912, Oct. 26, 27, 1914. Maximum discharge since construction of Littleville Dam in 1965, 1,360 ft³/s (38.5 m³/s) Apr. 25, 1972 (gage height, 5.05 ft or 1.539 m).

Current year: Maximum discharge, 1,320 ft³/s (37.4 m³/s) Sept. 28 (gage height, 5.35 ft or 1.631 m); minimum, 0.83 ft³/s (0.024 m³/s) Sept. 11, 12; minimum daily, 0.92 ft³/s (0.026 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	57	73	60	129	190	224	103	45	22	25	85
2	71	52	102	60	104	154	226	106	50	20	22	58
3	54	47	191	51	88	135	190	133	46	18	21	45
4	46	55	161	53	74	114	656	130	128	16	20	37
5	39	106	116	53	76	101	631	237	114	15	25	32
6	36	192	102	49	79	96	454	205	202	13	28	27
7	34	160	98	52	78	93	542	158	387	12	43	27
8	32	114	169	56	71	103	334	126	201	11	341	27
9	29	95	487	65	68	97	199	106	122	11	638	71
10	28	84	457	76	61	86	163	95	87	13	352	24
11	23	76	278	84	58	86	159	94	68	13	142	.92
12	23	73	175	189	58	83	166	98	94	13	104	1.4
13	24	200	142	233	56	82	167	284	448	64	82	13
14	24	254	130	200	55	88	156	453	480	194	61	21
15	22	179	121	143	56	84	175	314	454	426	48	22
16	40	136	109	116	55	77	193	200	279	435	40	22
17	161	109	130	103	55	82	237	157	160	161	37	21
18	136	106	136	81	55	91	305	125	116	87	37	20
19	93	84	114	108	55	111	365	106	92	62	34	23
20	69	86	98	114	60	233	434	92	74	61	30	36
21	57	304	92	87	59	772	336	80	61	134	27	42
22	50	362	90	85	57	634	240	70	52	140	25	38
23	47	218	84	79	63	608	196	64	46	89	21	38
24	41	154	78	74	208	657	223	61	41	60	21	88
25	40	132	81	78	593	727	271	54	36	97	23	300
26	40	116	78	165	546	772	236	48	31	111	24	484
27	40	98	69	177	330	491	189	45	28	76	24	421
28	39	89	75	135	233	277	156	42	26	55	21	1120
29	35	87	76	121	---	219	131	38	25	42	20	1170
30	33	80	61	174	---	234	114	35	24	34	80	843
31	49	---	58	159	---	278	---	41	---	28	136	---
TOTAL	1553	3905	4231	3280	3480	7855	8068	3900	4017	2533	2552	5157.32
MEAN	50.1	130	136	106	124	253	269	126	134	81.7	82.3	172
MAX	161	362	487	233	593	772	656	453	480	435	638	1170
MIN	22	47	58	49	55	77	114	35	24	11	20	.92
MEAN†	47.2	131	136	108	126	254	266	123	133	81.7	85.7	192
CFSM†	0.90	2.49	2.59	2.05	2.40	4.83	5.06	2.34	2.53	1.55	1.63	3.65
IN.†	1.03	2.77	2.99	2.36	2.50	5.57	5.64	2.71	2.82	1.79	1.88	4.07
CAL YR 1974 TOTAL	39785.20			MEAN 109	MAX 585	MIN 4.4		MEAN† 108	CFSM† 2.05	IN† 27.75		
WTR YR 1975 TOTAL	50531.32			MEAN 138	MAX 1170	MIN .92		MEAN† 140	CFSM† 2.66	IN† 36.14		

† Adjusted for change in contents in Littleville Lake.

NOTE---Doubtful gage-height record Dec. 4 to Jan. 8.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, on right bank 20 ft (6 m) upstream from culvert on U. S. Highway 20, 0.2 mi (0.3 km) east of Bonny Rigg Corners, 1.7 mi (2.7 km) southeast of Becket Center, and 3.5 mi (5.6 km) west of Chester.
DRAINAGE AREA.--3.01 mi² (7.80 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962. November 1962 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m) from topographic map.
REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1974: 1973.
REMARKS.--Records good. Recording rain gage at station May 1963 to December 1974 (no winter records).
AVERAGE DISCHARGE.--12 years (1963-75), 6.50 ft³/s (0.184 m³/s), 29.33 in/yr (745 mm/yr).
EXTREMES.--Period of record: Maximum discharge, 373 ft³/s (10.6 m³/s) Dec. 21, 1973 (gage height, 7.08 ft or 2.158 m), from rating curve extended above 93 ft³/s (2.63 m³/s); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 11, 1963, Aug. 24, 1965.

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Mar. 20	0530	141	3.99	5.03	1.533	Aug. 8	1415	100	2.83	4.57	1.393
Apr. 3	1715	162	4.59	5.23	1.594	Sept. 25	1245	*195	5.52	*5.53	1.686
June 12	-	unknown	-	-	-	Sept. 27	0330	139	3.94	5.01	1.527
July 13	2115	164	4.64	5.25	1.600						

Minimum discharge, 0.36 ft³/s (0.010 m³/s) July 7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	10	3.4	3.8	5.5	10	18	3.9	4.0	.65	.96	2.5
2	3.1	8.2	8.4	3.6	4.8	8.1	19	4.9	2.5	.60	.85	1.9
3	2.7	5.6	11	3.3	4.1	6.6	61	5.7	6.6	.54	.76	1.6
4	2.4	6.9	6.9	3.6	3.6	5.6	43	6.6	3.0	.49	.70	1.4
5	2.1	10	5.2	3.2	4.0	5.0	26	14	4.8	.78	2.0	1.2
6	2.0	11	4.2	3.0	4.0	4.7	21	7.4	22	.54	1.5	1.8
7	1.8	7.2	4.1	3.6	4.0	4.7	18	7.1	7.4	.44	30	1.4
8	1.7	5.4	30	3.3	4.0	6.4	16	4.9	4.1	.40	67	1.5
9	1.6	4.1	31	3.8	3.8	5.0	15	4.3	3.2	.49	26	1.9
10	1.6	3.4	16	4.5	3.4	4.4	14	3.9	2.0	.54	8.4	1.3
11	1.6	3.1	11	8.1	3.4	4.5	16	4.5	1.7	.49	4.5	1.2
12	1.6	3.6	9.9	14	3.6	4.3	15	25	1.8	9.9	4.1	2.0
13	1.6	16	9.7	13	3.6	4.5	15	13	40	37	3.0	1.6
14	1.6	9.7	9.4	9.4	3.3	4.9	15	9.0	9.0	36	2.3	1.3
15	1.6	8.4	8.0	7.2	3.3	4.3	16	6.2	7.0	12	1.8	1.2
16	10	6.5	6.1	6.5	3.4	4.0	19	5.3	4.5	4.3	1.5	1.1
17	13	5.2	11	5.0	3.3	5.2	24	4.3	3.4	4.9	1.6	1.1
18	6.6	4.5	8.5	5.6	3.3	6.1	24	3.9	2.8	3.4	1.7	1.1
19	4.5	4.1	6.8	9.4	3.6	8.9	27	3.4	2.5	10	1.4	2.4
20	3.6	6.3	5.9	6.7	4.0	97	26	3.1	2.2	25	1.3	3.7
21	3.3	24	5.5	5.0	3.4	41	20	2.8	2.0	11	1.1	2.4
22	3.0	14	5.3	4.9	3.4	26	13	2.4	1.7	5.1	.99	1.7
23	4.4	9.4	4.9	4.3	4.7	25	9.9	2.3	1.5	4.1	.99	3.4
24	8.4	8.4	4.5	3.8	30	27	13	2.5	1.3	15	1.1	25
25	8.6	8.4	4.8	5.9	36	38	13	2.0	1.1	6.4	1.4	77
26	8.8	7.4	4.1	15	21	32	11	1.9	.91	3.7	1.4	73
27	8.5	5.4	4.1	8.8	14	21	8.7	1.8	.84	2.8	1.2	76
28	8.1	4.5	4.1	7.0	11	19	5.3	1.8	.84	2.2	.99	25
29	7.9	4.6	3.9	7.9	---	17	4.7	1.7	.91	1.5	.84	14
30	7.9	3.8	3.9	9.9	---	24	4.3	1.6	.78	1.3	12	10
31	14	---	3.9	7.3	---	21	---	2.0	---	1.1	4.5	---
TOTAL	151.4	229.1	255.5	200.4	199.5	495.2	550.9	163.2	146.38	202.66	187.88	340.7
MEAN	4.88	7.64	8.24	6.46	7.13	16.0	18.4	5.26	4.88	6.54	6.06	11.4
MAX	14	24	31	15	36	97	61	25	40	37	67	77
MIN	1.6	3.1	3.4	3.0	3.3	4.0	4.3	1.6	.78	.40	.70	1.1
CFSM	1.62	2.54	2.74	2.15	2.37	5.32	6.11	1.75	1.62	2.17	2.01	3.79
IN.	1.87	2.83	3.16	2.48	2.46	6.12	6.81	2.02	1.81	2.50	2.32	4.21
CAL YR 1974	TOTAL	2368.86	MEAN	6.49	MAX	52	MIN	.46	CFSM	2.16	IN	29.27
WTR YR 1975	TOTAL	3122.82										

CONNECTICUT RIVER BASIN

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1971 to current year.

WATER TEMPERATURES: December 1971 to current year.

INSTRUMENTATION.--Two-parameter water-quality monitor.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 510 micromhos Feb. 13, 1972; minimum, 50 micromhos Aug. 2, 1973.

WATER TEMPERATURES: Maximum, 26.5°C Aug. 14, 1974; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 280 micromhos Jan. 25; minimum, 55 micromhos July 14.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 2, 3; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	141	132	136	80	78	79	141	118	128	157	118	132
2	146	141	144	82	80	81	175	123	134	163	126	136
3	150	146	148	92	83	86	132	117	121	137	119	125
4	155	150	153	109	93	103	122	114	118	159	124	131
5	159	155	157	110	103	106	125	112	121	142	115	128
6	173	158	163	103	98	99	131	119	126	145	116	129
7	178	170	175	103	100	101	203	120	130	132	123	126
8	176	169	173	110	103	106	155	90	119	132	117	124
9	181	174	177	116	111	114	101	93	98	210	117	143
10	181	177	180	118	111	116	99	94	96	136	125	129
11	179	175	177	120	114	118	96	92	94	133	121	128
12	178	174	176	125	115	121	146	91	110	147	114	120
13	180	172	176	119	92	99	117	101	104	157	119	133
14	181	176	179	98	96	97	144	102	117	142	116	122
15	178	167	174	101	97	99	110	104	107	122	115	118
16	175	101	137	102	98	99	137	107	117	124	116	121
17	104	97	100	106	100	103	147	122	131	131	124	127
18	114	104	109	113	106	110	127	112	116	226	122	146
19	120	114	117	115	112	113	115	111	113	216	125	144
20	124	120	122	118	103	113	119	115	116	177	127	136
21	128	124	125	152	84	101	119	115	118	140	126	134
22	133	128	130	110	96	101	120	117	118	137	133	134
23	135	95	127	98	91	94	132	111	118	142	131	137
24	92	67	77	98	95	97	121	118	119	141	137	138
25	69	65	67	147	96	106	206	116	134	280	138	170
26	71	67	69	121	101	113	139	120	129	147	128	133
27	68	65	67	120	110	115	130	116	120	145	126	131
28	68	65	67	116	110	113	132	119	121	141	126	132
29	68	66	67	139	120	127	129	116	122	232	132	173
30	69	67	68	140	122	131	123	120	121	155	136	142
31	85	69	78	---	---	---	123	119	121	155	135	145
MONTH	181	65	130	152	78	105	206	90	118	280	114	134

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	159	146	152	137	125	133	113	102	108	128	123	126
2	157	144	153	138	124	131	105	101	103	130	122	127
3	156	146	153	140	127	134	137	77	102	125	118	122
4	156	146	151	181	141	155	222	85	110	130	120	126
5	151	148	150	156	148	152	105	98	102	117	104	108
6	168	143	151	152	148	150	105	100	102	121	110	116
7	148	139	142	183	152	155	107	96	102	124	118	121
8	139	135	137	237	185	207	105	96	101	122	119	121
9	137	133	134	192	161	175	103	98	100	128	123	126
10	153	128	134	193	163	172	105	98	101	132	127	147
11	124	126	127	177	161	166	103	98	100	133	129	130
12	127	120	124	210	162	177	100	97	98	139	129	131
13	127	123	125	187	171	179	98	96	97	130	115	118
14	144	123	127	171	156	163	101	95	98	121	115	118
15	140	120	128	164	160	162	95	90	93	128	120	125
16	243	124	163	194	163	173	90	72	86	132	126	127
17	199	142	157	186	160	173	83	73	78	131	126	129
18	186	145	157	179	170	175	74	71	73	137	131	134
19	177	148	160	198	132	170	76	69	73	141	137	139
20	162	148	153	111	90	95	74	68	70	149	142	147
21	154	150	152	113	99	107	80	73	76	155	147	149
22	167	151	157	117	112	115	83	79	80	160	154	157
23	164	154	161	123	118	120	87	82	84	159	152	157
24	165	108	132	118	107	113	90	84	86	156	127	148
25	119	111	116	112	92	103	88	85	86	151	147	149
26	120	118	119	99	92	96	86	82	84	153	147	150
27	122	120	121	105	100	102	103	83	89	156	150	152
28	127	121	124	109	105	107	116	104	112	150	144	147
29	---	---	---	110	106	108	121	116	118	170	151	157
30	---	---	---	116	111	114	124	118	121	170	139	163
31	---	---	---	114	104	107	---	---	---	136	130	132
MONTH	243	108	141	237	90	142	222	68	94	170	104	135
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	144	112	130	216	203	210	151	145	148	137	120	130
2	135	111	119	224	195	206	167	144	152	144	137	141
3	153	124	136	237	205	220	174	156	165	152	144	146
4	125	99	106	253	201	227	169	161	166	170	153	163
5	122	106	114	244	160	185	160	111	122	172	164	167
6	118	84	94	237	195	205	129	114	122	171	151	161
7	103	89	97	245	216	230	133	98	109	160	151	154
8	109	104	107	257	227	241	101	73	85	165	154	163
9	116	110	113	262	225	244	90	75	83	147	138	141
10	127	113	121	235	160	208	108	92	102	162	147	154
11	132	126	129	247	219	231	123	109	115	172	162	166
12	148	85	116	255	194	221	122	117	118	172	135	149
13	86	68	74	213	85	133	131	120	125	148	136	142
14	89	77	84	126	55	85	143	131	135	160	149	155
15	107	89	95	86	67	79	149	143	146	169	162	165
16	111	108	110	99	86	92	149	141	146	172	169	170
17	111	109	110	110	100	103	141	137	139	173	171	171
18	118	111	115	115	101	110	143	136	138	173	170	172
19	128	116	121	109	100	104	155	144	149	172	129	151
20	142	125	130	110	88	96	160	154	157	130	128	129
21	150	143	146	88	81	84	170	160	164	147	128	135
22	157	148	151	96	85	91	170	164	168	152	146	147
23	169	156	161	110	97	104	174	164	169	151	128	136
24	174	162	166	124	109	116	175	153	164	127	87	113
25	195	173	180	121	88	94	154	151	152	88	72	81
26	195	154	184	95	85	89	159	153	155	85	73	80
27	205	147	187	105	95	100	160	153	156	84	72	78
28	206	187	194	117	103	110	177	162	170	92	83	88
29	194	174	181	126	113	119	183	149	176	99	91	95
30	213	186	193	139	127	131	142	99	109	103	97	99
31	---	---	---	150	140	143	119	104	112	---	---	---
MONTH	213	68	132	262	55	149	183	73	139	173	72	138
YEAR	280	55	130									

CONNECTICUT RIVER BASIN

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	8.0	9.5	11.5	8.5	10.0	0.0	0.0	0.0	1.0	0.0	0.5
2	10.0	7.5	9.0	11.0	8.5	10.5	0.0	0.0	0.0	1.0	0.0	0.0
3	8.5	6.5	7.5	9.5	7.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
4	8.5	5.5	6.5	11.0	9.0	10.0	0.0	0.0	0.0	0.5	0.0	0.0
5	10.0	5.0	7.0	10.0	8.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
6	12.5	7.5	10.0	9.5	8.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
7	12.0	8.5	10.5	8.5	7.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0
8	10.0	6.0	8.0	8.0	5.5	6.5	1.0	0.0	0.5	0.0	0.0	0.0
9	9.0	5.0	7.0	7.0	4.5	5.5	1.5	0.5	1.0	0.0	0.0	0.0
10	9.5	6.0	7.5	6.0	3.0	4.5	0.5	0.0	0.0	0.5	0.0	0.0
11	10.0	5.5	7.5	6.0	3.0	4.5	1.0	0.0	0.5	0.5	0.0	0.0
12	10.5	6.5	9.0	7.0	4.5	6.0	1.5	0.5	1.0	1.0	0.0	0.5
13	11.5	7.0	9.5	7.0	5.0	6.5	2.0	1.5	1.5	1.0	0.0	0.5
14	10.0	7.0	8.5	6.5	4.5	5.5	1.5	0.5	1.5	0.0	0.0	0.0
15	11.5	9.5	10.5	6.5	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
16	9.5	8.0	8.5	4.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.5	8.0	8.5	4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
18	8.5	4.5	6.5	4.5	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
19	6.0	3.0	4.0	6.0	3.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0
20	4.5	2.5	3.0	6.0	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
21	4.5	1.5	2.5	6.0	3.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0
22	6.5	2.0	4.0	2.5	0.5	1.5	1.0	0.0	0.5	0.5	0.0	0.0
23	8.0	4.0	6.0	1.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
24	6.5	4.5	5.5	3.5	1.0	2.5	1.5	0.5	1.0	0.5	0.0	0.0
25	6.5	4.0	5.5	4.0	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
26	6.5	4.5	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	7.0	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.5	3.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	8.5	5.0	6.5	1.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
30	8.5	6.5	7.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
31	10.5	8.5	9.5	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
MONTH	12.5	1.5	7.0	11.5	0.0	4.5	2.0	0.0	0.5	1.0	0.0	0.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.0	0.0	0.5	4.5	0.0	2.0	10.0	6.0	8.0
2	0.0	0.0	0.0	0.5	0.0	0.0	3.5	0.5	2.0	7.5	6.5	7.5
3	0.0	0.0	0.0	0.5	0.0	0.0	2.0	0.0	1.0	12.0	5.5	8.5
4	0.0	0.0	0.0	0.5	0.0	0.0	2.0	0.0	0.5	8.5	7.0	7.5
5	0.0	0.0	0.0	0.5	0.0	0.0	1.5	0.0	0.5	9.5	6.0	7.5
6	0.0	0.0	0.0	0.5	0.0	0.0	2.0	0.0	1.0	11.0	5.5	8.0
7	0.0	0.0	0.0	1.0	0.0	0.5	2.5	0.0	0.5	13.5	7.5	10.0
8	0.0	0.0	0.0	1.0	0.0	0.0	3.0	0.0	1.0	12.0	6.5	9.0
9	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	1.5	13.5	6.5	9.5
10	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	2.0	11.5	8.5	10.0
11	0.0	0.0	0.0	0.5	0.0	0.0	5.5	0.5	2.5	13.5	7.0	10.5
12	0.0	0.0	0.0	0.5	0.0	0.0	5.0	0.5	2.5	13.0	9.5	11.0
13	0.0	0.0	0.0	1.5	0.0	0.5	3.5	0.5	2.0	13.0	10.5	11.5
14	0.0	0.0	0.0	0.5	0.0	0.0	6.0	0.5	3.0	15.5	9.5	12.5
15	0.5	0.0	0.0	0.5	0.0	0.0	5.0	1.5	3.0	16.0	10.0	13.0
16	0.5	0.0	0.0	1.5	0.0	0.5	6.0	2.5	4.0	15.5	12.0	13.5
17	1.0	0.0	0.5	3.0	0.0	1.0	7.5	3.0	5.0	16.0	10.5	13.5
18	1.0	0.5	0.5	3.0	0.0	1.0	6.0	2.5	4.5	15.5	10.5	13.0
19	1.5	0.0	0.5	2.0	0.0	1.0	7.0	5.0	5.5	18.0	12.0	15.0
20	2.0	0.5	1.0	1.0	0.0	0.5	6.0	4.0	5.0	20.0	13.0	17.0
21	2.0	0.5	1.0	2.5	0.0	1.0	6.5	3.0	4.5	18.5	14.0	16.0
22	2.5	0.5	1.0	1.5	0.0	1.0	7.0	1.5	4.5	19.0	13.5	16.0
23	1.0	0.5	0.5	4.0	1.0	2.0	9.5	3.0	6.5	20.5	14.5	16.5
24	0.5	0.0	0.0	2.0	0.5	1.0	8.5	6.0	7.5	21.5	15.5	18.0
25	0.5	0.0	0.5	4.5	1.5	2.5	10.5	7.0	9.0	16.0	12.5	14.0
26	1.5	0.5	1.0	2.5	0.0	1.0	11.0	6.5	8.5	17.5	11.0	14.0
27	2.0	0.0	1.0	0.5	0.0	0.0	7.0	5.0	6.0	18.5	14.0	15.5
28	1.0	0.0	0.5	1.0	0.0	0.0	9.5	3.5	6.0	19.0	13.0	15.5
29	---	---	---	1.5	0.0	1.0	10.5	3.5	6.5	16.5	12.0	13.5
30	---	---	---	2.0	0.5	1.5	12.5	4.0	8.0	15.0	12.0	13.5
31	---	---	---	2.5	0.0	1.0	---	---	---	18.0	13.0	15.5
MONTH	2.5	0.0	0.5	4.5	0.0	0.5	12.5	0.0	4.0	21.5	5.5	12.5

01181000 WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MASS.

LOCATION.--Lat 42°14'14", long 72°53'46", Hampshire County, on left bank at Huntington, 0.4 mi (0.6 km) downstream from Roaring Brook and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--93.7 mi² (242.7 km²).

PERIOD OF RECORD.--Discharge: September 1935 to current year.

Chemical analyses: Water years 1957, 1967-74 (partial-record station).

Water temperatures: Water years 1957, 1967-69, 1971-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 388.60 ft (118.445 m) above mean sea level.

REMARKS.--Records good. Prior to 1950, some diurnal fluctuation at low flow caused by small mill above station.

AVERAGE DISCHARGE.--40 years, 187 ft³/s (5.296 m³/s), 27.10 in/yr (688 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 26,100 ft³/s (739 m³/s) Aug. 19, 1955 (gage height, 15.27 ft or 4.654 m), from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.3 ft³/s (0.093 m³/s) Aug. 9, 1955, Nov. 27, 1957.

Current year: Peak discharges above base of 2,700 ft³/s (76.5 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	0630	*5,610 159	*6.98 2.128	Sept. 25	1545	4,100 116	5.99 1.826
Apr. 3	1845	5,560 157	6.95 2.118	Sept. 27	0115	4,500 127	6.27 1.911
Aug. 8	1630	3,700 105	5.69 1.734				

Minimum discharge, 19 ft³/s (0.54 m³/s) July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	141	130	124	193	275	349	156	93	36	44	88
2	110	112	271	120	164	238	379	182	102	32	41	65
3	104	96	429	102	151	209	2580	212	91	30	36	56
4	89	132	256	122	137	184	1580	213	290	28	34	48
5	80	261	196	102	143	178	657	474	153	25	62	42
6	75	373	175	88	159	164	477	268	598	24	53	40
7	67	209	159	118	143	159	385	239	322	22	125	54
8	62	164	910	118	141	199	332	194	191	21	1570	46
9	61	139	1340	139	130	159	295	171	143	20	677	50
10	59	126	491	146	115	156	271	178	117	24	231	44
11	55	120	322	209	105	156	285	185	99	23	145	37
12	55	118	261	498	105	141	295	186	302	23	155	43
13	54	555	252	442	105	156	285	659	1350	294	115	71
14	50	322	252	306	105	162	256	445	466	905	91	52
15	53	238	221	221	110	143	311	272	264	451	75	41
16	181	199	199	202	110	137	338	242	205	174	66	36
17	379	175	316	173	108	156	410	206	181	109	68	36
18	178	164	256	159	108	178	449	172	150	93	68	35
19	124	151	209	327	114	234	583	155	128	80	57	43
20	102	181	187	217	126	5060	555	138	112	133	47	81
21	89	892	175	170	114	1410	385	123	94	418	43	67
22	86	535	167	181	110	720	295	119	81	194	39	54
23	82	295	156	154	132	590	261	110	73	114	36	69
24	82	247	151	149	985	642	331	109	66	86	36	426
25	97	243	154	167	1420	966	347	92	58	226	45	2150
26	96	213	134	456	696	847	270	85	52	145	44	2170
27	85	173	137	266	410	463	228	79	48	100	40	3160
28	75	167	143	217	322	367	202	77	45	81	33	727
29	72	162	132	209	---	332	182	68	46	66	29	418
30	74	146	128	338	---	484	167	65	42	57	250	300
31	167	---	124	230	---	436	---	95	---	50	158	---
TOTAL	3075	7049	8433	6470	6761	15701	13740	5969	5962	4084	4513	10549
MEAN	99.2	235	272	209	241	506	458	193	199	132	146	352
MAX	379	892	1340	498	1420	5060	2580	659	1350	905	1570	3160
MIN	50	96	124	88	105	137	167	65	42	20	29	35
CFSM	1.06	2.51	2.90	2.23	2.57	5.40	4.89	2.06	2.12	1.41	1.56	3.76
IN.	1.22	2.80	3.35	2.57	2.68	6.23	5.45	2.37	2.37	1.62	1.79	4.19

CAL YR 1974	TOTAL	73156	MEAN 200	MAX 1630	MIN 11	CFSM 2.13	IN 29.04
WTR YR 1975	TOTAL	92306	MEAN 253	MAX 5060	MIN 20	CFSM 2.70	IN 36.65

01183000 WESTFIELD LITTLE RIVER AT OUTLET OF COBBLE MOUNTAIN RESERVOIR,
NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°07'34", long 72°53'37", Hampden County, at Cobble Mountain Dam, 7.5 mi (12.1 km) west of Westfield, and at mi 13.0 (20.9 km).

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--Discharge: July 1905 to current year. Published as "near Blandford" 1905-11 and as "near Westfield" 1912-35.

Chemical analyses: Water year 1957 (partial-record station).

Water temperatures: Water year 1957 (partial-record station).

GAGE.--Venturi meters at outlet tunnel at powerhouse 2.4 mi (3.9 km) downstream. Prior to Mar. 1, 1910, non-recording gage at site 0.2 mi (0.3 km) upstream and Mar. 1, 1910, to Sept. 30, 1935, water-stage recorder at diversion dam 2.8 mi (4.5 km) downstream.

REVISIONS.--WSP 501: Drainage area.

REMARKS.--Discharge computed on basis of flow through venturi meters and flow over reservoir spillway or through bypass tunnel. Flow regulated by Borden Brook Reservoir since 1910 and Cobble Mountain Reservoir since August 1931 (see p.245); discharge adjusted for effect of this regulation. No flow over spillway or through bypass tunnel during year.

COOPERATION.--Records furnished by Springfield Board of Water Commissioners.

AVERAGE DISCHARGE.--65 years (1910-75), 89.4 ft³/s (2.532 m³/s), 26.51 in/yr (673 mm/yr), adjusted to present drainage area.

MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Mean	Per square mile	Runoff in inches
October	29.9	0.65	0.75
November	84.3	1.84	2.05
December	116	2.53	2.93
Calendar year 1974	82.7	1.81	24.51
January	107	2.34	2.69
February	141	3.08	3.21
March	218	4.76	5.50
April	175	3.82	4.27
May	110	2.40	2.76
June	50.0	1.09	1.22
July	97.3	2.12	2.45
August	49.2	1.07	1.24
September	181	3.95	4.41
Water year 1974-75	113	2.47	33.48

01183450 GREAT BROOK NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°05'18", long 72°43'24", Hampden County, on left bank 50 ft (15 m) downstream from bridge on Shaker Rd., 0.4 mi (0.6 km) downstream from Kellogg Brook, 1.4 mi (2.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of center of Westfield.

DRAINAGE AREA.--29.2 mi² (75.6 km²).

PERIOD OF RECORD.--Discharge: November 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 135 ft (41.1 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair, and those for period of no gage-height record, which are poor. Diversion above station for municipal supply of West Springfield.

EXTREMES.--Period of record: Maximum discharge, 651 ft³/s (18.4 m³/s) Dec. 21, 1973 (gage height, 5.33 ft or 1.625 m), from rating curve extended above 270 ft³/s (7.65 m³/s); minimum, 4.8 ft³/s (0.14 m³/s) Aug. 16, 17, 1974.

Current year: Peak discharges above base of 240 ft³/s (6.80 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 25	0715	285	8.07	4.00	1.219	Apr. 4	0430	*607	17.2	*5.19	1.582
Mar. 20	1745	420	11.9	4.54	1.384	Sept. 27	-	†500	14.6	-	-

† About.

Minimum discharge, 9.4 ft³/s (0.27 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	31	24	34	54	75	59	37	25	14	17	24
2	31	25	59	34	45	67	54	38	23	14	16	21
3	28	22	94	33	40	59	162	40	22	13	16	13
4	26	22	57	32	39	53	348	43	29	13	26	18
5	24	26	37	31	41	49	116	65	27	12	24	17
6	23	33	31	31	45	50	87	53	57	11	19	19
7	22	30	29	30	38	50	77	46	56	11	50	18
8	21	25	58	32	38	58	71	43	32	10	102	17
9	20	24	110	42	35	54	65	38	27	13	123	20
10	20	22	71	57	32	46	62	37	25	16	56	18
11	19	22	47	63	30	44	59	36	22	14	34	17
12	19	22	41	84	30	47	56	36	32	15	29	19
13	19	43	39	93	30	60	53	53	63	19	25	23
14	19	56	38	80	30	57	52	59	57	69	23	20
15	19	35	38	60	30	50	49	44	36	81	21	18
16	33	30	35	52	31	49	48	40	29	38	21	18
17	48	27	66	47	33	53	46	39	27	25	21	17
18	36	26	82	45	34	52	44	34	25	21	21	17
19	27	25	60	80	36	55	45	32	23	19	20	21
20	24	26	48	60	40	286	46	31	21	26	19	23
21	23	46	44	48	40	191	43	29	19	84	19	20
22	22	52	43	50	41	99	42	28	17	71	19	18
23	21	34	40	42	52	83	40	28	15	30	17	26
24	21	30	39	40	135	76	48	27	14	23	19	50
25	20	29	39	45	260	86	53	25	14	28	19	150
26	21	28	37	86	169	77	49	25	13	28	19	250
27	21	26	37	85	110	62	44	26	13	23	18	300
28	21	25	36	62	87	57	41	25	13	20	16	180
29	20	25	34	54	---	55	39	23	14	19	16	110
30	20	24	34	68	---	67	37	23	17	17	36	80
31	32	---	34	68	---	72	---	26	---	17	33	---
TOTAL	761	891	1481	1668	1625	2239	2035	1129	807	814	914	1568
MEAN	24.5	29.7	47.8	53.8	58.0	72.2	67.8	36.4	26.9	26.3	29.5	52.3
MAX	48	56	110	93	260	286	348	65	63	84	123	300
MIN	19	22	24	30	30	44	37	23	13	10	16	17
CAL YR 1974 TOTAL	13259.4											
WTR YR 1975 TOTAL	15932.0											
MEAN 36.3												
MAX 194												
MIN 10												

NOTE.--No gage-height record Sept. 6-30. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01183500 WESTFIELD RIVER NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°06'24", long 72°41'58", Hampden County, on left bank 0.7 mi (1.1 km) downstream from Great Brook, 3 mi (5 km) east of Westfield, and 8.1 mi (13.0 km) upstream from mouth.

DRAINAGE AREA.--497 mi² (1,287 km²).

PERIOD OF RECORD.--Discharge: June 1914 to current year.

Chemical analyses: Water years 1952-53, 1957, 1967-74 (partial-record station).

Water temperatures: Water years 1952, 1957, 1967-69, 1971-74 (partial-record station).

Sediment records: Water years 1967-74 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 98.25 ft (29.947 m) above mean sea level. Prior to Nov. 3, 1933, on right bank at same datum.

REVISIONS (WATER YEARS).--WSP 601: 1924(M). WSP 756: Drainage area. WSP 1051: 1919-21(M), 1925(M). WSP 1231: 1915-16(M), 1920.

REMARKS.--Records excellent. Flow regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965 (see p. 245). High flow slightly affected by retarding reservoirs since 1963. Diversion above station from Westfield Little River for municipal supply of Springfield. See table below for figures of diversion.

AVERAGE DISCHARGE.--61 years, 946 ft³/s (26.79 m³/s), 25.85 in/yr (657 mm/yr), adjusted for diversion and, since October 1931, for storage.

EXTREMES.--Period of record: Maximum discharge, 70,300 ft³/s (1,990 m³/s) Aug. 19, 1955 (gage height, 34.2 ft or 10.42 m, from floodmarks), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of computations of flow over dam at gage heights 27.20, 29.40, and 34.2 ft (8.291, 8.961, and 10.42 m); minimum, 9 ft³/s (0.25 m³/s) Oct. 2, 1921; minimum daily, 40 ft³/s (1.13 m³/s) Dec. 28, 29, 1914.

Current year: Maximum discharge, 11,100 ft³/s (314 m³/s) Sept. 26 (gage height, 12.92 ft or 3.938 m); minimum, 116 ft³/s (3.29 m³/s) July 8; minimum daily, 164 ft³/s (4.64 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	791	568	549	655	1070	1590	1920	930	489	320	502	689
2	582	472	899	633	923	1330	1780	955	545	255	252	532
3	520	422	1490	627	947	1330	3860	1230	460	225	283	554
4	431	460	1130	581	857	1220	6180	1100	1050	193	502	473
5	438	890	933	554	860	990	4690	2020	1100	207	373	510
6	407	1360	784	519	874	972	2800	1520	1430	185	413	421
7	378	1000	660	564	792	1020	3060	1240	2460	172	610	334
8	347	766	1180	602	686	1020	3090	1040	1330	164	2820	502
9	337	620	4090	751	666	876	2620	913	873	210	5290	369
10	323	557	2560	910	677	851	1820	831	689	320	2530	436
11	305	548	1610	877	760	852	1270	889	577	249	1340	344
12	292	511	1340	1690	711	875	1670	889	705	246	1290	460
13	286	1430	1220	1990	752	966	1550	2120	3800	428	882	421
14	292	1630	1080	1890	682	946	1690	2770	3800	2690	649	359
15	270	1140	1060	1360	613	852	1640	1680	2110	2820	527	373
16	396	911	1010	1190	600	835	1580	1300	1690	2700	456	297
17	1480	770	1270	1150	638	823	1790	1150	1220	1060	452	280
18	906	719	1390	918	575	940	2110	954	1010	737	545	267
19	618	655	1130	1240	659	1170	2330	968	972	710	436	280
20	511	721	947	1350	671	7790	2920	1010	889	625	384	464
21	467	2100	889	1360	661	6010	2290	939	577	1920	320	473
22	429	2210	854	1090	617	4350	1770	870	493	1660	413	440
23	422	1260	874	1010	681	3620	1520	908	601	939	334	409
24	393	1000	809	845	2140	3940	1710	684	554	777	303	1030
25	410	946	789	793	4990	4410	2080	558	421	1040	387	4390
26	404	882	714	1470	4100	4950	1770	493	327	1070	460	6170
27	406	749	642	1650	2810	2830	1450	485	307	674	510	8260
28	385	700	659	1320	2070	2190	1250	460	283	532	498	5410
29	391	676	679	1280	---	1880	1090	436	300	452	310	5660
30	372	612	655	1560	---	2080	995	384	287	387	1060	4550
31	526	---	663	1430	---	2040	---	452	---	344	1380	---
TOTAL	14505	27285	34559	33859	33082	65548	66295	32178	31349	24311	26511	45157
MEAN	468	910	1115	1092	1182	2114	2210	1038	1045	784	855	1505
MAX	1480	2210	4090	1990	4990	7790	6180	2770	3800	2820	5290	8260
MIN	270	422	549	519	575	823	995	384	283	164	252	267
(†)	61.4	60.1	42.3	55.0	52.4	52.1	51.8	63.2	65.3	69.6	65.8	57.3
MEAN‡	505	1005	1226	1113	1258	2304	2287	1120	1054	879	848	1662
CFSM‡	1.02	2.02	2.47	2.24	2.53	4.64	4.60	2.25	2.12	1.77	1.71	3.34
IN.†	1.17	2.26	2.84	2.58	2.64	5.35	5.14	2.60	2.37	2.04	1.97	3.73
CAL YR 1974 TOTAL	355786			975	MAX 4980	MIN 94		MEAN‡ 1021	CFSM‡ 2.05	IN‡ 27.89		
WTR YR 1975 TOTAL	434639			MEAN 1191	MAX 8260	MIN 164		MEAN‡ 1269	CFSM‡ 2.55	IN‡ 34.68		

† Diversion in cubic feet per second, from Westfield Little River for municipal supply of Springfield.

‡ Adjusted for diversion and for change in contents in Borden Brook, Cobble Mountain, and Knightville Reservoirs and Littleville Lake.

CONNECTICUT RIVER BASIN

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'59", long 72°38'28", Hampden County, multiple-parameter monitor on left bank at canal, 0.3 mi (0.5 km) downstream from dam, 0.6 mi (1.0 km) downstream from Block Brook, 1.0 mi (1.6 km) west of West Springfield, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--513 mi² (1,329 km²).

PERIOD OF RECORD.--CHEMICAL ANALYSES: June 1972 to current year.

WATER TEMPERATURES: June 1972 to current year.

INSTRUMENTATION.--Four-parameter water-quality monitor.

REMARKS.--During periods of low flow, flow in canal is predominantly from Silver Brook.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 666 micromhos Jan. 21, 1974; minimum, 23 micromhos Mar. 17, 18, 1973.

pH: Maximum, 9.0 Aug. 22, 1974; minimum, 6.1 June 4, 5, 1974.

DISSOLVED OXYGEN: Maximum, 18.6 mg/l Feb. 10, 1973; minimum, 4.2 mg/l Sept. 9, 29, 1972, July 11, 1975.

WATER TEMPERATURES: Maximum, 30.5°C July 19, 1975; minimum, freezing point on many days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 365 micromhos July 23; minimum, 37 micromhos June 14.

pH: Maximum, 8.7 July 24; minimum, 6.3 April 21.

DISSOLVED OXYGEN: Maximum recorded, 16.6 mg/l Feb. 3; minimum, 4.2 mg/l July 11.

WATER TEMPERATURES: Maximum, 30.5°C July 19; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	96	81	88	118	108	113	100	98	99	125	101	112
2	112	96	101	135	109	122	124	100	112	129	106	114
3	117	107	110	159	115	138	114	81	95	106	106	103
4	122	110	115	122	114	119	---	---	---	108	105	107
5	129	123	125	120	96	109	---	---	---	109	107	108
6	125	115	120	96	82	89	---	---	---	112	108	109
7	127	117	121	84	78	82	---	---	---	120	105	109
8	137	117	125	95	81	87	---	---	---	135	116	124
9	151	128	138	101	93	96	---	---	---	149	123	133
10	147	136	143	102	96	99	---	---	---	---	---	---
11	156	137	145	106	98	103	---	---	---	---	---	---
12	156	147	152	114	103	105	---	---	---	---	---	---
13	159	149	153	116	79	104	---	---	---	---	---	---
14	153	145	148	78	72	75	---	---	---	---	---	---
15	145	139	142	84	77	81	---	---	---	---	---	---
16	149	143	146	91	84	86	---	---	---	---	---	---
17	148	86	109	91	88	89	---	---	---	---	---	---
18	89	83	85	94	92	93	---	---	---	---	---	---
19	98	89	93	100	94	98	86	84	86	---	---	---
20	101	98	99	109	100	105	91	86	88	---	---	---
21	106	99	103	113	75	94	93	89	90	---	---	---
22	116	103	110	74	62	67	92	89	91	---	---	---
23	119	115	118	76	67	72	93	90	91	106	91	100
24	127	120	122	82	77	79	94	88	91	105	89	99
25	140	127	132	86	82	83	95	91	93	134	99	114
26	130	122	124	89	85	86	102	94	98	128	96	114
27	127	116	122	94	87	89	107	101	103	96	82	87
28	117	113	115	96	92	94	107	102	104	92	82	87
29	117	113	115	97	93	95	115	101	105	109	86	96
30	121	115	118	98	96	96	104	99	101	105	90	100
31	126	118	123	---	---	---	104	99	101	93	84	90
MONTH	159	81	121	159	62	95	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	95	87	91	98	86	93	62	57	59	86	78	83
2	98	93	95	96	89	93	63	60	61	83	80	81
3	95	91	94	100	89	96	82	50	64	82	72	77
4	102	92	96	105	90	98	58	48	53	80	72	75
5	103	97	100	108	93	103	63	50	54	82	67	73
6	136	93	103	108	102	105	63	62	63	70	66	68
7	132	104	112	104	101	103	64	56	61	73	69	72
8	116	106	111	108	102	105	63	56	59	78	72	75
9	111	105	108	107	100	103	68	62	65	84	77	80
10	118	108	113	108	102	105	85	67	73	82	79	80
11	118	100	110	127	106	118	93	87	91	81	76	78
12	115	100	106	120	103	111	92	78	81	86	77	81
13	118	103	110	122	104	111	79	77	77	86	61	76
14	124	110	115	105	98	101	79	71	76	60	53	56
15	130	107	118	165	103	127	79	70	75	71	59	65
16	151	117	129	148	111	118	78	74	77	82	71	76
17	132	108	118	112	106	108	88	69	75	85	79	81
18	154	117	133	111	102	106	76	61	67	86	82	84
19	198	141	158	118	95	103	65	58	62	90	86	88
20	139	123	128	105	56	70	57	50	53	94	82	88
21	132	119	123	62	54	58	81	54	63	124	83	101
22	129	123	126	66	54	59	68	59	63	88	73	82
23	126	122	124	66	59	62	72	66	69	86	68	77
24	132	91	112	65	58	62	74	67	71	87	68	77
25	88	73	78	66	59	63	67	61	63	89	85	87
26	73	70	71	67	58	59	67	62	64	89	85	88
27	80	73	77	86	61	73	69	66	67	91	89	91
28	88	78	83	89	55	69	75	69	71	106	91	95
29	---	---	---	64	57	62	80	75	78	109	107	108
30	---	---	---	67	55	61	84	80	82	118	109	113
31	---	---	---	61	54	58	---	---	---	121	111	117
MONTH	198	70	109	165	54	89	93	48	68	124	53	83
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	116	102	107	122	115	120	119	113	116	79	69	74
2	103	96	100	121	115	118	114	79	87	90	81	85
3	100	95	97	128	118	124	146	86	117	98	91	95
4	106	71	94	135	130	133	139	118	132	99	87	94
5	69	60	64	143	132	137	122	80	98	106	92	98
6	85	67	75	141	127	133	130	114	121	107	79	92
7	66	50	54	134	130	132	117	110	113	111	99	104
8	78	49	65	137	133	134	110	51	91	119	106	113
9	107	75	84	141	134	137	51	46	47	108	81	91
10	98	86	93	157	144	151	61	47	53	116	102	109
11	97	89	92	142	128	133	77	62	70	108	101	106
12	104	93	97	143	130	135	82	70	76	116	104	112
13	102	68	70	142	134	138	86	72	79	118	79	94
14	54	37	46	136	62	78	90	85	89	115	110	113
15	47	41	44	102	60	73	102	91	98	116	111	113
16	59	48	52	85	76	79	110	102	107	114	106	111
17	64	57	61	119	86	104	114	109	112	123	108	116
18	69	64	67	163	119	133	112	106	110	127	123	124
19	75	70	72	176	140	159	107	92	102	133	121	125
20	81	70	76	190	127	157	120	108	113	136	120	131
21	84	71	78	216	53	127	127	115	120	120	100	105
22	91	86	90	292	226	259	130	125	128	104	99	102
23	99	93	96	365	245	309	127	104	112	106	96	101
24	108	86	93	227	199	210	135	119	130	112	78	101
25	124	90	101	232	78	130	128	124	126	76	60	68
26	111	100	108	77	70	73	124	103	114	68	51	61
27	122	110	117	84	73	79	122	97	110	68	59	63
28	121	116	118	91	86	88	120	85	99	69	60	64
29	126	117	121	100	92	96	109	84	92	63	58	61
30	123	117	120	106	100	104	126	95	116	70	64	68
31	---	---	---	113	107	110	90	65	70	---	---	---
MONTH	126	37	85	365	53	132	146	46	102	136	51	96
YEAR	365	37	98									

CONNECTICUT RIVER BASIN

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS). WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	7.0	7.1	7.0	7.1	7.6	7.6	7.6	6.7	6.6	6.7
2	7.1	7.0	7.1	7.2	6.8	7.0	7.7	6.7	7.2	6.9	6.7	6.8
3	7.1	7.0	7.1	7.1	6.8	6.9	7.1	6.9	7.0	6.9	6.8	6.8
4	7.1	7.0	7.1	7.0	6.6	6.9	---	---	---	6.8	6.6	6.7
5	7.1	7.1	7.1	6.9	6.6	6.7	---	---	---	6.8	6.7	6.8
6	7.1	7.1	7.1	6.9	6.6	6.8	---	---	---	6.9	6.8	6.8
7	7.1	7.0	7.1	7.1	6.8	7.0	---	---	---	6.8	6.6	6.7
8	7.1	7.0	7.1	7.2	7.0	7.1	---	---	---	6.8	6.6	6.7
9	7.2	7.0	7.1	7.2	7.1	7.2	---	---	---	6.8	6.7	6.8
10	7.2	7.1	7.1	7.2	7.0	7.1	---	---	---	---	---	---
11	7.1	7.1	7.1	7.3	7.1	7.3	---	---	---	---	---	---
12	7.2	7.0	7.1	7.3	7.1	7.3	---	---	---	---	---	---
13	7.2	7.1	7.1	7.3	6.6	7.0	---	---	---	---	---	---
14	7.2	7.1	7.1	7.2	7.2	7.2	---	---	---	---	---	---
15	7.2	6.9	7.1	7.2	7.1	7.2	---	---	---	---	---	---
16	7.2	7.1	7.1	7.3	7.2	7.2	---	---	---	---	---	---
17	7.2	7.0	7.1	7.2	7.2	7.2	---	---	---	---	---	---
18	7.1	6.9	7.0	7.3	7.2	7.3	---	---	---	---	---	---
19	7.0	6.9	6.9	7.3	7.3	7.3	6.7	6.5	6.6	---	---	---
20	7.0	6.9	7.0	7.3	6.6	7.1	6.9	6.5	6.7	---	---	---
21	7.1	7.0	7.0	7.2	6.7	6.9	6.9	6.4	6.7	---	---	---
22	7.2	7.1	7.1	7.1	7.0	7.1	6.7	6.6	6.6	---	---	---
23	7.2	7.1	7.1	7.2	6.8	7.0	6.7	6.6	6.6	7.1	7.0	7.1
24	7.3	7.1	7.2	7.1	6.8	6.9	6.7	6.6	6.6	7.1	6.5	6.8
25	7.2	7.2	7.2	7.1	6.5	6.9	6.6	6.5	6.6	6.9	6.7	6.8
26	---	---	---	7.5	7.1	7.3	6.6	6.6	6.6	7.0	6.8	6.9
27	7.3	7.2	7.2	7.5	7.4	7.5	6.6	6.5	6.6	7.0	6.9	6.9
28	7.4	7.3	7.4	7.5	7.0	7.4	6.7	6.5	6.6	7.1	6.9	7.0
29	7.4	6.8	7.3	7.6	7.1	7.5	6.7	6.5	6.6	7.2	7.0	7.1
30	7.4	6.9	7.2	7.7	7.6	7.6	6.8	6.7	6.7	7.7	7.0	7.2
31	7.0	6.9	7.0	---	---	---	6.7	6.6	6.6	7.7	7.1	7.3
MONTH	7.4	6.8	7.1	7.7	6.5	7.1	---	---	---	---	---	---
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.1	7.3	7.2	7.0	7.1	7.3	7.2	7.3	7.1	6.9	7.0
2	8.0	7.2	7.4	7.2	7.1	7.1	7.3	7.2	7.2	6.9	6.8	6.9
3	7.8	7.2	7.5	7.2	7.1	7.1	7.3	6.8	7.1	7.1	6.8	6.9
4	7.8	7.2	7.4	7.2	7.1	7.1	6.8	6.7	6.7	6.9	6.8	6.8
5	7.3	7.1	7.2	7.2	7.1	7.2	6.8	6.7	6.8	7.0	6.8	6.9
6	7.3	7.1	7.2	7.3	7.1	7.2	6.8	6.7	6.8	7.0	6.7	6.9
7	7.7	7.1	7.3	7.2	7.1	7.2	6.9	6.8	6.8	7.1	6.8	6.9
8	7.7	7.4	7.5	7.2	7.0	7.1	6.9	6.7	6.8	7.1	6.8	6.9
9	7.6	7.3	7.4	7.2	7.1	7.2	6.8	6.7	6.8	7.2	6.6	7.0
10	7.7	7.3	7.4	7.2	7.1	7.2	6.9	6.8	6.8	7.1	6.9	7.0
11	7.5	7.0	7.3	7.2	7.1	7.2	6.9	6.8	6.8	7.1	6.8	7.0
12	7.3	7.1	7.2	7.3	7.1	7.2	6.9	6.8	6.8	7.2	6.8	7.0
13	7.4	7.1	7.2	7.3	7.2	7.2	6.9	6.8	6.8	7.0	6.7	6.8
14	7.4	7.2	7.3	7.3	7.1	7.2	6.9	6.8	6.8	6.7	6.6	6.7
15	7.4	7.1	7.4	7.1	7.0	7.1	6.9	6.8	6.8	6.9	6.6	6.6
16	7.4	7.0	7.2	7.1	7.0	7.0	6.9	6.6	6.8	6.9	6.7	6.8
17	7.4	7.0	7.2	7.2	6.9	7.1	6.8	6.5	6.7	7.0	6.8	6.9
18	7.4	7.2	7.2	7.2	6.9	7.0	6.9	6.6	6.7	7.0	6.8	6.9
19	7.7	7.1	7.3	7.1	6.9	7.0	6.8	6.6	6.7	7.1	6.8	6.9
20	7.7	7.5	7.6	---	---	---	6.7	6.5	6.6	7.1	6.7	6.9
21	7.7	7.1	7.6	6.9	6.6	6.8	6.8	6.3	6.7	7.0	6.7	6.8
22	7.7	7.0	7.4	6.9	6.8	6.8	6.9	6.7	6.8	7.0	6.7	6.8
23	---	---	---	7.0	6.9	7.0	7.0	6.7	6.8	7.0	6.6	6.8
24	---	---	---	7.1	7.0	7.1	6.8	6.7	6.7	7.0	6.6	6.8
25	---	---	---	7.2	7.2	7.2	6.9	6.7	6.8	6.9	6.7	6.8
26	7.3	7.0	7.1	7.3	7.2	7.3	6.8	6.7	6.7	7.0	6.8	6.9
27	7.2	7.0	7.1	7.5	7.3	7.3	6.8	6.6	6.7	7.0	6.8	6.9
28	7.2	7.0	7.1	7.4	7.1	7.2	7.0	6.7	6.9	7.3	6.8	7.0
29	---	---	---	7.2	7.1	7.1	7.1	6.8	7.0	7.3	6.9	7.1
30	---	---	---	7.2	7.1	7.1	7.1	6.9	7.0	7.0	6.8	6.9
31	---	---	---	7.3	7.2	7.2	---	---	---	7.0	6.8	6.9
MONTH	8.0	7.0	7.3	7.5	6.6	7.1	7.3	6.3	6.8	7.3	6.6	6.9

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PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.3	13.8	15.2	12.4	11.1	11.9	---	---	---	11.0	10.0	10.7
2	15.8	14.2	15.2	14.0	12.5	13.2	---	---	---	10.5	10.1	10.3
3	16.6	14.0	15.4	---	---	---	---	---	---	11.3	10.7	11.0
4	16.3	13.7	15.3	---	---	---	---	---	---	11.2	10.7	10.8
5	15.6	14.1	14.6	---	---	---	---	---	---	12.3	11.0	11.7
6	14.3	13.2	13.7	14.4	12.1	13.3	---	---	---	12.0	11.0	11.6
7	13.5	12.7	13.0	14.9	12.9	13.8	---	---	---	11.2	10.2	10.7
8	14.2	12.6	13.6	13.7	12.2	13.0	---	---	---	10.5	10.0	10.2
9	14.9	13.4	13.8	---	---	---	---	---	---	10.6	9.9	10.3
10	15.2	13.4	14.3	---	---	---	---	---	---	10.3	9.4	9.9
11	14.7	13.5	14.0	---	---	---	12.9	11.0	11.9	10.2	9.0	9.7
12	14.5	12.7	13.7	---	---	---	12.3	11.4	12.0	10.3	8.8	9.6
13	13.8	12.6	13.1	---	---	---	13.1	12.3	12.7	9.9	9.0	9.4
14	14.2	12.6	13.4	---	---	---	13.5	12.3	12.9	9.9	9.3	9.7
15	14.3	13.0	13.7	---	---	---	12.6	12.1	12.3	9.3	8.8	9.1
16	14.3	13.9	14.1	---	---	---	12.6	11.2	12.1	9.0	8.6	8.8
17	15.1	13.5	14.3	---	---	---	11.5	10.1	11.0	9.1	8.8	8.9
18	15.1	13.2	13.8	---	---	---	11.9	10.5	11.3	9.2	8.6	8.9
19	13.5	11.1	11.9	---	---	---	12.1	11.5	11.8	9.0	8.5	8.8
20	11.7	10.8	11.3	---	---	---	12.9	12.1	12.7	8.8	8.1	8.5
21	12.1	11.1	11.4	---	---	---	13.0	12.0	12.7	8.4	7.9	8.2
22	12.5	11.7	12.1	---	---	---	13.4	12.3	12.9	8.5	7.6	8.0
23	12.8	11.5	12.2	---	---	---	12.8	11.1	12.1	8.7	7.9	8.3
24	14.3	12.2	12.8	---	---	---	11.4	10.8	11.1	9.0	7.4	7.8
25	16.1	13.2	14.5	---	---	---	11.5	10.7	11.2	8.4	7.0	7.7
26	15.0	11.9	13.7	---	---	---	11.0	10.8	10.9	9.4	8.4	8.8
27	13.5	11.2	12.2	---	---	---	12.3	11.2	11.7	9.5	8.7	9.2
28	13.3	11.6	12.3	---	---	---	12.7	11.9	12.3	9.6	8.9	9.3
29	---	---	---	---	---	---	12.4	11.5	11.9	9.0	8.3	8.6
30	---	---	---	---	---	---	11.9	10.8	11.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	16.6	10.8	13.5	---	---	---	---	---	---	12.3	7.0	9.5
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.8	8.9	9.3	---	---	---	9.1	8.4	8.6
2	---	---	---	9.5	8.8	9.2	---	---	---	8.7	8.4	8.5
3	---	---	---	8.9	7.8	8.5	---	---	---	8.8	8.3	8.5
4	---	---	---	9.6	8.7	9.1	---	---	---	9.1	7.2	8.2
5	---	---	---	9.1	6.3	8.1	---	---	---	8.0	7.0	7.5
6	---	---	---	9.9	5.5	8.7	---	---	---	8.2	7.3	7.8
7	---	---	---	10.3	9.0	9.6	---	---	---	8.0	7.3	7.6

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.0	13.5	14.5	12.0	13.5	1.5	0.0	0.5	2.0	1.0	1.5
2	13.5	11.5	12.5	23.0	14.0	17.5	2.5	0.0	1.5	2.5	1.0	2.0
3	11.5	10.0	11.0	13.5	10.5	11.5	2.5	2.0	2.0	1.0	0.0	0.5
4	11.0	9.0	10.0	14.0	11.0	12.5	---	---	---	1.5	0.0	1.0
5	11.5	9.0	10.0	13.0	11.5	12.0	---	---	---	0.5	0.0	0.0
6	13.0	10.0	11.0	12.0	10.5	11.0	---	---	---	0.5	0.0	0.0
7	13.5	11.5	12.5	10.5	10.0	10.5	---	---	---	0.0	0.0	0.0
8	12.5	10.5	11.5	10.0	9.0	9.5	---	---	---	1.0	0.0	0.5
9	12.5	10.0	11.0	9.5	7.5	8.5	---	---	---	2.0	1.5	1.5
10	12.5	10.0	11.0	7.5	6.0	7.0	---	---	---	---	---	---
11	12.5	10.5	11.5	7.5	6.0	6.5	---	---	---	---	---	---
12	12.0	10.5	11.5	7.5	6.5	7.0	---	---	---	---	---	---
13	13.0	11.0	12.0	8.5	7.5	8.0	---	---	---	---	---	---
14	12.0	11.0	11.5	8.0	7.0	7.5	---	---	---	---	---	---
15	13.0	12.0	12.5	7.5	6.5	7.5	---	---	---	---	---	---
16	13.0	11.5	12.0	6.5	5.5	6.0	---	---	---	---	---	---
17	11.5	10.5	11.0	5.5	3.5	4.0	---	---	---	---	---	---
18	10.0	9.0	9.5	4.5	3.5	4.0	---	---	---	---	---	---
19	8.5	6.5	7.5	5.0	2.0	4.5	2.5	1.5	2.0	---	---	---
20	6.5	4.0	6.0	7.0	4.5	6.0	2.5	1.0	2.0	---	---	---
21	5.5	3.5	4.5	8.0	7.0	7.5	2.5	1.5	2.0	---	---	---
22	6.5	3.5	5.0	7.0	3.0	5.0	3.0	2.0	2.5	---	---	---
23	7.5	5.0	6.5	3.0	2.0	2.5	2.5	1.5	2.0	1.0	0.5	1.0
24	8.0	6.0	7.0	2.5	0.5	1.5	2.5	1.5	2.0	1.5	0.0	0.0
25	6.5	6.0	6.5	4.5	2.5	4.0	2.0	0.0	1.0	1.5	1.0	1.5
26	7.5	6.0	6.5	4.5	2.0	3.0	0.5	0.0	0.0	1.5	0.5	1.0
27	7.5	6.0	7.0	2.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5
28	7.5	5.0	6.0	1.0	0.0	0.5	1.0	0.0	0.5	1.5	0.0	1.0
29	9.0	6.0	7.5	2.0	1.0	1.5	1.0	0.0	0.5	2.5	1.0	1.5
30	10.0	8.0	9.0	1.5	0.0	1.5	2.5	0.0	2.0	2.0	0.0	1.0
31	12.0	10.0	11.0	---	---	---	1.5	0.5	1.0	1.0	0.0	0.0
MONTH	15.0	3.5	9.5	23.0	0.0	7.0	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.0	3.0	1.5	2.5	4.0	2.5	3.0	12.5	11.0	12.0
2	0.0	0.0	0.0	2.0	0.5	1.5	4.5	4.0	4.0	12.5	11.0	11.5
3	0.5	0.0	0.0	2.0	0.0	1.0	5.0	4.0	4.5	12.0	10.0	11.0
4	1.5	0.0	0.5	2.0	0.0	1.0	3.5	0.0	3.0	11.5	10.5	11.0
5	0.5	0.5	0.5	2.5	0.0	1.0	3.0	0.0	2.5	11.0	10.0	10.5
6	0.5	0.5	0.5	3.0	1.0	2.0	3.5	2.5	3.0	12.0	10.0	11.0
7	1.0	0.5	0.5	2.5	0.5	1.5	4.0	3.0	3.5	14.5	11.0	13.0
8	1.0	0.0	0.5	3.5	1.5	2.5	4.5	2.5	3.5	15.0	12.5	14.0
9	0.5	0.0	0.5	1.5	0.0	0.0	6.0	3.5	4.0	15.0	12.5	13.5
10	1.0	0.0	0.0	0.5	0.0	0.0	5.5	3.5	4.5	15.0	13.0	14.5
11	0.5	0.0	0.0	3.0	0.5	1.5	7.5	5.0	6.0	15.0	13.5	14.5
12	0.5	0.0	0.0	3.5	2.0	2.5	6.5	5.5	6.0	15.5	13.5	14.5
13	0.5	0.0	0.0	4.5	2.5	3.5	6.0	5.0	5.5	16.0	14.5	15.0
14	0.5	0.0	0.0	4.0	2.0	3.0	6.5	4.5	5.5	16.0	13.5	14.5
15	0.5	0.0	0.0	2.5	0.0	1.0	7.0	6.0	6.5	16.5	14.5	15.5
16	0.0	0.0	0.0	4.5	1.0	2.5	7.5	5.5	6.5	17.0	15.5	16.0
17	0.5	0.0	0.0	7.5	3.5	5.5	---	---	---	18.5	15.5	17.0
18	1.0	0.0	0.5	8.0	5.0	7.0	---	---	---	18.0	16.0	17.0
19	1.0	0.0	0.5	8.0	5.5	7.0	8.0	7.0	7.5	19.5	16.5	18.0
20	---	---	---	8.5	4.5	6.0	8.0	5.0	7.0	20.5	17.0	19.0
21	---	---	---	4.5	2.0	3.5	---	---	---	21.0	17.0	18.5
22	---	---	---	3.0	1.5	2.0	8.5	6.5	7.5	19.5	17.0	18.5
23	---	---	---	5.5	2.0	4.0	9.5	7.0	8.5	21.0	16.0	18.5
24	---	---	---	5.0	3.0	4.0	9.5	8.5	9.0	21.5	15.5	18.5
25	---	---	---	6.0	2.0	4.5	10.5	9.0	10.0	21.5	19.0	20.5
26	---	---	---	5.5	0.0	4.5	11.5	10.0	11.0	19.0	17.5	18.5
27	3.5	1.0	2.0	3.5	0.0	1.0	10.5	9.0	9.5	20.0	18.0	19.0
28	3.0	1.0	2.0	2.5	0.0	0.5	10.0	8.0	9.0	21.0	18.5	20.0
29	---	---	---	1.5	0.5	1.0	11.5	8.5	10.0	22.5	20.0	21.0
30	---	---	---	2.0	1.0	1.5	12.5	9.0	11.0	21.0	20.0	20.5
31	---	---	---	2.5	1.5	2.0	---	---	---	20.0	19.0	19.5
MONTH	---	---	---	8.5	0.0	2.5	12.5	0.0	6.5	22.5	10.0	16.0

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, multiple-parameter monitor on right bank at Agawam, Mass., 1.4 mi (2.3 km) upstream from Massachusetts-Connecticut State line, and 4.5 mi (7.2 km) upstream from gaging station at Thompsonville, Conn.

DRAINAGE AREA.--9,661 mi² (25,022 km²) at gage at Thompsonville, Conn.

INSTRUMENTATION.--Four-parameter water-quality monitor.

PERIOD OF RECORD.--CHEMICAL ANALYSES: January 1969 to current year (no summer record in water year 1975).

WATER TEMPERATURES: January 1969 to current year (no summer record in water year 1975).

Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, Conn.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, Conn. (sta 01184000) are used for this site. Samples for previously published monthly chemical analyses were taken at gaging station at Thompsonville.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 268 micromhos Feb. 3, 1973; minimum, 49 micromhos Apr. 23, 1969.

pH: Maximum, 9.7 Aug. 9, 1970; minimum, 5.8 Oct. 26, 1971.

DISSOLVED OXYGEN: Maximum, 15.9 mg/l Feb. 17, 1971; minimum, 1.0 mg/l Aug. 20, 1971.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 16, 1970; minimum, freezing point on several days during winter periods.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, 175 micromhos Feb. 19; minimum recorded, 56 micromhos Dec. 10.

pH: Maximum recorded, 7.4 Feb. 7, 11; minimum recorded, 6.3 Mar. 20; maximum and minimum may have been higher or lower during periods of missing record.

DISSOLVED OXYGEN: Maximum recorded, 15.3 mg/l Feb. 27; minimum recorded, 6.6 mg/l May 30, but may have been lower during periods of missing record.

WATER TEMPERATURES: Maximum not determined, probably occurred during period of missing record in late summer; minimum, freezing point Jan. 16.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.									
22...	1700	110	6.9	--	9.0	9.7	10000	7400	790
NOV.									
13...	1100	110	6.7	15.5	9.0	7.8	96000	3500	860
DEC.									
12...	1430	90	7.1	2.0	2.5	12.4	13000	9300	500
JAN.									
22...	1330	104	7.1	7.0	1.5	12.8	9300	870	600
MAR.									
06...	1000	110	7.1	1.5	2.5	12.7	8800	630	310
18...	1600	125	6.8	9.0	6.0	12.0	2500	330	200
APR.									
15...	1100	84	6.9	17.5	6.5	10.6	1400	8120	98
MAY									
12...	1245	86	6.7	19.0	14.5	8.5	32000	1600	290
JUNE									
25...	1330	115	6.6	29.5	25.5	8.7	170000	819000	98
JULY									
23...	1400	99	6.8	32.5	26.0	7.2	130000	29000	760
AUG.									
11...	1300	94	6.6	31.0	23.0	7.5	40000	7800	160
SEP.									
10...	1230	122	6.8	17.0	21.0	11.0	120000	4900	100

H NON-IDEAL COLONY COUNT.

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)
OCT. 22...	.000	.000	.41	.01	.42	.36	.10	.88	.46
NOV. 13...	2.40	.400	.37	.01	.38	.27	.03	.68	.30
DEC. 12...	.800	.800	.31	.00	.31	.19	.32	.83	.51
JAN. 22...	4.40	6.00	.38	.00	.38	.11	.24	.73	.35
MAR. 06...	.000	.000	.40	.01	.41	.10	.19	.70	.29
18...	.000	.000	.45	.02	.47	.10	.08	.65	.18
APR. 15...	.000	.000	.31	.01	.32	.05	.07	.44	.12
MAY 12...	7.20	.000	.39	.08	.47	.06	.50	1.0	.56
JUNE 25...	10.0	.000	.29	.01	.30	.08	.41	.79	.49
JULY 23...	6.80	.000	.20	.01	.21	.05	.45	.71	.50
AUG. 11...	.000	.000	.20	.01	.21	.09	.39	.69	.48
SEP. 10...	4.80	.000	.24	.02	.26	.01	.48	.75	.49

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT. 22...	.10	80	4	--	--	0	--	--
NOV. 13...	.08	78	5	12	8.0	0	2	3
DEC. 12...	.04	66	6	13	--	0	--	--
JAN. 22...	.04	59	5	13	--	0	--	--
MAR. 06...	.04	63	3	8	2.5	0	--	2
18...	.05	74	4	8	--	0	--	--
APR. 15...	.03	55	2	6	--	1	--	--
MAY 12...	.24	285	25	37	--	0	--	--
JUNE 25...	.11	68	2	14	11	0	0	3
JULY 23...	.09	61	2	18	--	1	--	--
AUG. 11...	.05	74	3	15	--	0	--	--
SEP. 10...	.09	92	3	14	6.8	0	0	4

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
NOV. 13...	230	480	70	28	0	23	11	9.0	22	0	0	12
MAR. 06...	120	220	40	20	0	16	10	12	18	0	<3	13
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	700	580	65	28	0	23	14	12	27	0	0	15
SEP. 10...	200	320	100	30	0	25	11	12	22	0	0	6

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
NOV. 13...	<3	0	4	5	0	11	0	60	2.0	20	0	0
MAR. 06...	<4	0	3	1	0	3	0	42	2.0	15	0	0
APR. 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 25...	<1	0	4	2	0	6	0	74	2.0	10	0	0
SEP. 10...	<2	<2	4	3	1	7	0	70	1.0	10	0	0

DATE	TOTAL GER- MANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TI- TANIUM (TI) (UG/L)	TOTAL ZIR- CONIUM (ZR) (UG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	COD IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ALUMI- NUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL BARIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BERYL- LIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON IN BOTTOM MA- TERIAL (UG/G)
NOV. 13...	0	0	14	0	--	--	--	--	--	--	--	--
MAR. 06...	0	0	8	0	21000	21000	4400	6900	190	33	0	7
APR. 15...	--	--	--	--	--	--	9700	13000	270	60	0	8
JUNE 25...	0	1	50	<1	19000	22000	4100	6500	80	27	0	5
SEP. 10...	0	1	12	<1	9300	10000	4500	6000	100	24	0	6

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MOLYB- DENUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL VANA- DIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL TITA- NIUM IN BOTTOM MA- TERIAL (UG/G)
NOV. 13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 06...	<3	15	6	30	55	0	22	0	7	10	76	250
APR. 15...	2	17	5	40	40	0	24	0	5	13	130	500
JUNE 25...	<1	11	4	30	47	0	20	0	5	8.0	90	230
SEP. 10...	2	8	4	20	15	1	20	0	3	8.0	70	340

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL PCB (UG/L)
NOV. 13...	.00	.0	.00	.00	.00	.01	.00	.00	.00	.00	0	.0
MAR. 06...	.00	.0	.00	.00	.00	<.01	.00	.00	.00	.0	0	.0
JUNE 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0
SEP. 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0	.0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 22...	.9	2.5	3.1	72	1.1	1.2	1.4	8
NOV. 13...	<.6	2.2	2.8	73	<.4	.5	.6	6
DEC. 12...	<.4	1.7	2.2	58	2.3	1.6	1.7	11
JAN. 22...	<.8	2.0	2.5	63	1.5	1.3	1.4	4
MAR. 06...	.8	2.1	2.7	65	<.4	<.4	<.4	2
APR. 18...	1.4	2.0	2.5	69	<.4	.4	.4	5
MAY 15...	2.2	2.1	2.6	54	1.6	1.8	2.0	3
JUNE 12...	1.1	4.9	6.1	60	15	7.4	9.2	190
JULY 25...	<.7	2.6	3.3	68	.4	<.4	<.4	7
AUG. 23...	<.7	2.1	2.7	66	.6	.5	.6	8
SEP. 11...	1.7	2.7	3.4	68	.4	.5	.6	8
SEP. 10...	<.8	2.6	3.3	100	<.4	<.4	<.4	6

CONNECTICUT RIVER BASIN

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01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO JUNE 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	113	109	112	125	120	122	107	100	104	124	102	110
2	112	103	106	125	118	121	121	105	112	127	113	124
3	111	105	108	131	117	125	119	91	105	113	106	109
4	118	111	114	131	121	125	92	88	90	109	105	107
5	120	117	118	130	108	123	100	89	95	110	106	108
6	120	117	118	107	87	98	104	95	100	110	104	107
7	125	120	122	94	85	90	110	99	105	122	104	110
8	124	120	122	104	93	97	111	104	108	129	113	120
9	125	116	122	106	98	102	101	57	72	133	119	126
10	125	115	120	111	106	109	74	56	63	137	116	126
11	124	113	118	117	110	114	80	76	78	116	111	113
12	124	115	119	115	111	113	91	80	86	109	83	96
13	130	117	122	115	103	111	94	88	91	90	80	84
14	125	119	121	99	78	89	94	90	92	94	85	89
15	127	119	124	94	84	90	92	89	90	92	87	90
16	125	115	119	96	91	93	95	88	91	108	85	96
17	126	108	119	95	91	93	136	97	120	110	101	106
18	110	104	106	99	95	98	113	93	100	130	105	113
19	107	102	104	106	99	102	95	93	94	160	136	150
20	113	107	109	106	102	104	98	95	96	143	115	132
21	119	111	115	105	72	93	102	97	100	119	105	113
22	113	105	109	75	64	68	101	98	100	112	101	106
23	121	107	115	81	76	79	104	98	101	115	110	112
24	126	120	122	82	80	81	102	98	100	122	112	117
25	122	118	121	82	80	81	100	96	98	131	118	124
26	121	117	119	84	81	83	103	97	100	133	112	125
27	124	118	124	92	82	87	107	102	104	111	97	101
28	128	120	122	96	91	94	107	99	102	102	94	98
29	121	117	120	97	93	95	111	105	108	117	100	108
30	126	120	122	100	96	98	113	108	109	113	104	107
31	125	116	120	---	---	---	107	101	105	105	88	99
MONTH	130	102	117	131	64	99	136	56	97	160	80	111
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	105	99	102	100	92	97	93	90	91	85	80	82
2	107	103	105	102	95	99	96	91	94	84	80	82
3	109	106	107	105	100	103	98	82	91	85	81	83
4	115	106	110	105	99	102	---	---	---	81	78	79
5	114	105	110	111	100	106	---	---	---	81	72	78
6	128	110	115	111	108	110	---	---	---	74	71	72
7	131	117	125	113	108	111	---	---	---	76	71	73
8	121	118	119	112	108	111	---	---	---	79	72	75
9	125	118	120	115	111	113	---	---	---	82	77	79
10	135	125	129	122	115	118	---	---	---	85	80	82
11	128	118	125	133	121	127	---	---	---	87	82	85
12	121	117	119	136	123	128	---	---	---	93	86	89
13	133	116	124	128	115	122	---	---	---	95	79	91
14	133	128	131	116	112	114	---	---	---	76	60	68
15	136	130	133	153	115	128	---	---	---	75	61	67
16	147	135	140	151	130	143	---	---	---	86	75	79
17	142	134	138	129	120	126	89	84	87	87	82	84
18	163	135	145	125	118	121	89	83	86	88	85	86
19	175	156	163	118	110	116	88	82	85	93	89	92
20	154	138	146	115	59	83	83	72	75	100	94	97
21	138	133	135	73	61	67	77	73	75	101	97	99
22	131	121	127	72	60	66	76	71	73	99	94	97
23	133	127	131	74	66	70	77	72	75	100	98	99
24	133	107	125	71	62	68	79	75	76	106	100	103
25	104	73	81	72	63	68	76	72	74	109	105	107
26	74	69	73	67	61	63	73	70	72	112	105	108
27	85	75	81	78	68	75	72	69	70	116	110	114
28	93	81	88	91	77	84	75	69	72	---	---	---
29	---	---	---	97	88	94	79	73	76	111	109	110
30	---	---	---	96	91	93	81	76	79	112	108	109
31	---	---	---	93	85	89	---	---	---	111	104	108
MONTH	175	69	120	153	59	100	---	---	---	116	60	89

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO JUNE 1975.--Continued

JUNE			
DAY	MAX	MIN	MEAN
1	113	103	107
2	106	102	105
3	107	104	106
4	112	104	109
5	103	92	97
6	93	86	90
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---
13	---	---	---
14	---	---	---
15	---	---	---
16	---	---	---
17	---	---	---
18	---	---	---
19	---	---	---
20	---	---	---
21	---	---	---
22	---	---	---
23	---	---	---
24	---	---	---
25	---	---	---
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	---	---	---
PERIOD	175	56	103

PH (UNITS), OCTOBER 1974 TO JUNE 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.8
2	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8
3	6.9	6.7	6.8	6.8	6.6	6.7	6.8	6.7	6.7	6.8	6.8	6.8
4	6.9	6.7	6.8	6.7	6.6	6.6	6.8	6.7	6.7	6.9	6.8	6.8
5	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.8	6.8
6	6.9	6.7	6.8	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8
7	6.8	6.6	6.7	6.7	6.7	6.7	6.9	6.8	6.8	6.8	6.8	6.8
8	6.8	6.7	6.7	6.8	6.7	6.7	7.0	6.8	6.9	6.9	6.8	6.8
9	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.6	6.7	6.9	6.8	6.8
10	6.7	6.7	6.7	6.8	6.7	6.7	6.9	6.6	6.8	6.9	6.8	6.8
11	6.8	6.7	6.7	6.8	6.7	6.7	7.0	7.0	7.0	6.9	6.8	6.8
12	6.8	6.7	6.7	6.8	6.7	6.7	7.1	7.0	7.1	6.8	6.8	6.8
13	6.7	6.6	6.6	6.8	6.7	6.8	7.0	6.9	7.0	6.8	6.7	6.7
14	6.7	6.6	6.7	6.9	6.7	6.8	6.9	6.9	6.9	6.8	6.7	6.8
15	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.8	6.8
16	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.8	6.8	7.0	6.8	6.8
17	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.7	6.9	6.8	6.9
18	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.9	6.8	6.9
19	6.9	6.8	6.9	6.8	6.7	6.8	6.7	6.6	6.7	6.9	6.8	6.8
20	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.6	6.7	6.9	6.8	6.8
21	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.9	6.8	6.8
22	6.9	6.8	6.9	6.8	6.6	6.7	6.7	6.7	6.7	7.1	6.8	6.9
23	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7	7.1	7.0	7.0
24	6.9	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.7	7.0	6.9	7.0
25	6.8	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.7	7.0	6.9	7.0
26	6.8	6.7	6.8	6.8	6.6	6.8	6.8	6.7	6.7	7.1	7.0	7.1
27	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.7	7.1	7.0	7.1
28	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.8	6.8	7.1	7.0	7.1
29	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.1	7.0	7.1
30	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7	7.2	7.0	7.1
31	6.8	6.6	6.6	---	---	---	6.8	6.8	6.8	7.2	7.1	7.2
MONTH	6.9	6.6	6.8	6.9	6.6	6.8	7.1	6.6	6.8	7.2	6.7	6.9

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), OCTOBER 1974 TO JUNE 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.1	7.1	7.0	7.0	---	---	---	6.8	6.7	6.7
2	7.2	7.1	7.1	7.1	7.1	7.1	---	---	---	6.8	6.7	6.7
3	7.2	7.1	7.1	7.1	7.1	7.1	---	---	---	6.8	6.7	6.7
4	7.1	7.1	7.1	7.2	7.1	7.1	---	---	---	6.8	6.7	6.7
5	7.2	7.1	7.1	7.1	7.0	7.1	---	---	---	6.8	6.7	6.7
6	7.3	7.1	7.2	7.2	7.1	7.1	---	---	---	6.8	6.7	6.7
7	7.4	7.3	7.3	7.2	7.1	7.1	---	---	---	6.7	6.6	6.7
8	7.4	7.3	7.4	7.2	7.1	7.1	---	---	---	6.8	6.6	6.7
9	7.4	7.3	7.4	7.2	7.2	7.2	---	---	---	6.7	6.6	6.7
10	7.4	7.2	7.3	7.2	7.1	7.2	---	---	---	6.7	6.6	6.7
11	7.4	7.3	7.3	7.2	7.1	7.2	---	---	---	6.7	6.6	6.6
12	7.3	7.3	7.3	7.2	7.1	7.2	---	---	---	6.8	6.5	6.7
13	7.3	7.1	7.2	7.3	7.1	7.1	---	---	---	6.8	6.7	6.8
14	7.2	7.1	7.1	7.2	7.1	7.2	---	---	---	6.8	6.7	6.7
15	7.2	7.1	7.1	7.3	7.2	7.2	---	---	---	6.9	6.7	6.8
16	7.2	7.1	7.1	7.3	7.1	7.2	---	---	---	6.9	6.7	6.8
17	7.2	7.1	7.1	7.2	7.0	7.1	6.8	6.7	6.8	6.9	6.7	6.8
18	7.2	7.1	7.1	7.2	6.8	7.0	6.9	6.7	6.8	6.9	6.8	6.8
19	7.3	7.2	7.2	6.9	6.7	6.7	6.9	6.8	6.8	6.8	6.7	6.8
20	7.3	7.2	7.3	6.9	6.3	6.6	6.9	6.8	6.8	6.8	6.6	6.7
21	7.3	7.3	7.3	6.7	6.5	6.7	6.9	6.8	6.8	6.8	6.6	6.7
22	7.3	7.2	7.2	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8
23	7.2	7.2	7.2	6.9	6.9	6.9	6.8	6.8	6.8	6.9	6.7	6.8
24	7.2	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8	7.1	6.8	6.9
25	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8	7.1	6.9	7.0
26	7.1	6.9	7.0	7.1	7.1	7.1	6.9	6.8	6.8	7.2	7.0	7.1
27	7.2	7.0	7.1	7.4	7.2	7.3	6.9	6.8	6.8	7.2	7.1	7.1
28	7.1	7.0	7.0	---	---	---	6.9	6.8	6.8	---	---	---
29	---	---	---	---	---	---	6.8	6.8	6.8	7.0	6.8	6.9
30	---	---	---	---	---	---	6.8	6.7	6.8	6.9	6.8	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
MONTH	7.4	6.9	7.2	7.4	6.3	7.1	---	---	---	7.2	6.5	6.8

JUNE			
DAY	MAX	MIN	MEAN
1	6.9	6.8	6.8
2	7.0	6.8	6.9
3	6.9	6.8	6.9
4	7.1	6.8	6.9
5	7.0	6.9	7.0
6	6.8	6.8	6.8
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---
13	---	---	---
14	---	---	---
15	---	---	---
16	---	---	---
17	---	---	---
18	---	---	---
19	---	---	---
20	---	---	---
21	---	---	---
22	---	---	---
23	---	---	---
24	---	---	---
25	---	---	---
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	---	---	---
PERIOD	7.4	6.3	6.9

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO JUNE 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.6	6.7	9.1	8.2	8.8	11.1	10.8	11.0	11.2	10.4	10.7
2	7.6	6.9	7.2	8.3	7.7	8.0	12.9	11.1	11.6	10.4	9.8	10.1
3	8.3	7.5	7.9	8.0	7.6	7.7	13.1	11.4	11.8	11.9	10.2	11.3
4	8.6	7.6	8.2	7.7	7.5	7.6	13.2	11.5	11.7	12.5	11.3	12.1
5	8.7	7.0	7.7	7.5	7.3	7.4	12.8	11.1	11.8	---	---	---
6	8.9	7.4	8.1	7.8	7.3	7.5	12.9	10.0	11.8	---	---	---
7	8.8	8.1	8.4	7.8	7.6	7.7	13.4	10.2	12.6	---	---	---
8	8.2	7.8	8.1	8.4	7.6	8.1	12.7	11.0	12.0	---	---	---
9	8.2	7.8	8.0	8.6	8.2	8.5	11.6	11.1	11.4	---	---	---
10	8.6	7.9	8.1	8.9	8.2	8.6	12.3	11.8	12.0	12.2	10.6	11.3
11	8.5	7.8	8.2	8.5	7.7	8.1	13.0	12.2	12.6	11.8	10.8	11.3
12	8.7	8.1	8.4	8.1	7.6	7.8	12.8	12.1	12.5	11.3	10.9	11.1
13	8.8	7.7	8.2	8.5	7.5	8.0	12.6	11.7	12.2	11.4	11.0	11.1
14	8.3	8.0	8.2	9.2	8.7	8.9	12.0	11.4	11.7	12.0	11.4	11.7
15	8.3	8.1	8.2	9.5	9.1	9.3	12.0	11.5	11.9	12.8	11.7	12.2
16	8.2	8.0	8.1	10.8	9.7	10.2	12.6	11.9	12.3	13.0	11.9	12.5
17	8.8	8.1	8.4	11.8	8.7	10.4	13.7	10.5	12.7	13.6	10.6	12.3
18	9.3	8.5	8.9	10.0	9.2	9.4	13.5	10.5	12.5	13.6	10.7	12.6
19	---	---	---	11.4	9.7	10.5	13.5	10.4	12.4	13.6	12.4	12.8
20	---	---	---	11.4	10.6	11.0	13.4	10.3	11.4	13.4	12.0	12.7
21	7.4	7.0	7.2	11.0	10.5	10.7	13.3	10.3	10.8	13.9	12.3	13.2
22	8.4	7.0	7.6	11.2	8.5	9.2	13.1	12.4	12.8	14.0	10.6	12.6
23	8.1	7.7	7.9	10.8	9.7	10.4	13.1	11.8	12.4	13.4	10.6	11.0
24	7.8	7.1	7.4	11.8	11.2	11.4	12.7	11.9	12.3	13.7	10.9	12.1
25	7.5	7.2	7.3	11.7	10.8	11.2	13.2	10.2	11.0	13.9	11.0	13.2
26	7.7	7.1	7.3	12.2	10.8	11.4	13.1	10.1	10.5	14.0	12.9	13.3
27	8.2	7.3	7.6	12.3	10.1	11.7	10.7	10.1	10.4	14.2	11.2	12.6
28	7.8	6.9	7.4	10.8	10.2	10.4	11.0	10.4	10.6	14.2	11.4	12.7
29	8.4	7.1	7.7	12.4	10.6	11.0	10.9	10.2	10.5	14.1	13.2	13.7
30	7.5	6.8	7.0	11.6	10.6	10.8	13.3	10.0	10.2	14.1	10.4	12.5
31	9.4	6.7	8.1	---	---	---	10.5	10.0	10.3	11.6	10.6	11.0
MONTH	9.4	6.6	7.8	12.4	7.3	9.4	13.7	10.0	11.7	14.2	9.8	12.1
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.4	10.6	11.0	14.6	13.7	14.1	13.3	12.0	12.6	12.0	11.0	11.7
2	11.8	10.7	11.1	15.2	14.1	14.8	12.0	10.9	11.6	11.8	11.2	11.5
3	12.0	10.3	11.0	15.1	12.6	13.8	11.7	10.5	11.0	12.2	11.5	11.8
4	12.5	10.5	11.4	15.1	12.5	13.2	---	---	---	11.8	11.6	11.7
5	12.4	11.2	11.7	15.2	12.6	13.4	---	---	---	11.5	11.1	11.3
6	13.8	11.1	11.8	15.1	12.5	13.2	---	---	---	11.0	10.6	10.8
7	12.6	10.9	11.6	14.9	12.3	13.2	---	---	---	10.7	10.4	10.5
8	12.9	11.8	12.3	14.5	12.7	13.6	---	---	---	10.5	10.2	10.4
9	13.6	12.4	12.7	14.1	11.4	12.3	---	---	---	10.5	9.8	10.2
10	13.6	11.7	12.8	12.5	11.4	11.9	---	---	---	10.5	10.0	10.2
11	14.2	13.0	13.7	13.7	11.3	12.4	---	---	---	10.4	10.0	10.2
12	14.3	9.8	10.3	13.3	10.9	12.2	---	---	---	10.3	8.8	9.7
13	12.3	10.0	11.0	13.0	11.2	12.2	---	---	---	9.4	8.8	9.1
14	13.1	10.4	11.4	12.8	12.2	12.4	---	---	---	9.6	8.7	9.1
15	11.1	10.7	10.9	14.0	12.9	13.5	---	---	---	9.1	8.8	9.0
16	11.2	11.0	11.1	13.9	12.2	13.0	---	---	---	8.9	8.6	8.8
17	13.9	11.2	12.2	12.6	11.6	12.0	12.2	11.0	11.7	9.2	8.6	8.9
18	13.9	11.4	12.2	12.4	11.5	11.9	12.1	11.7	11.9	9.2	8.4	8.8
19	14.3	11.3	13.8	12.3	11.9	12.2	12.5	12.1	12.3	9.1	7.9	8.5
20	14.5	13.4	14.0	12.3	11.5	11.7	12.6	12.3	12.5	8.4	7.9	8.3
21	14.5	11.8	13.4	12.2	11.5	11.8	12.8	12.4	12.6	8.3	7.6	8.0
22	14.7	12.0	12.6	12.3	11.8	12.2	13.2	12.7	13.0	8.1	7.7	8.0
23	14.7	12.2	13.4	12.4	12.1	12.2	13.2	12.4	12.9	8.1	7.1	7.6
24	14.9	13.7	14.2	12.6	12.3	12.4	12.6	11.7	12.2	7.9	7.1	7.4
25	13.3	12.6	12.8	13.3	12.5	12.8	12.3	12.0	12.2	7.4	7.1	7.2
26	13.0	12.7	12.9	13.5	13.2	13.4	12.3	11.5	12.0	7.7	7.1	7.5
27	15.3	12.9	13.6	13.4	12.8	13.0	12.3	11.7	12.1	7.7	7.1	7.4
28	14.6	13.4	14.1	13.2	12.9	13.0	12.4	12.2	12.3	---	---	---
29	---	---	---	13.5	13.0	13.2	12.4	11.9	12.2	7.1	6.7	7.0
30	---	---	---	13.7	12.2	12.8	12.2	11.6	12.0	7.1	6.6	7.0
31	---	---	---	13.4	12.1	12.7	---	---	---	7.1	6.9	7.0
MONTH	15.3	9.8	12.3	15.2	10.9	12.8	---	---	---	12.2	6.6	9.2

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO JUNE 1975.--Continued

JUNE			
DAY	MAX	MIN	MEAN
1	7.3	6.8	7.0
2	7.4	6.8	7.1
3	7.4	6.9	7.1
4	7.5	7.1	7.4
5	8.0	7.2	7.6
6	8.3	7.6	7.9
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---
13	---	---	---
14	---	---	---
15	---	---	---
16	---	---	---
17	---	---	---
18	---	---	---
19	---	---	---
20	---	---	---
21	---	---	---
22	---	---	---
23	---	---	---
24	---	---	---
25	---	---	---
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	---	---	---
PERIOD	15.3	6.6	10.8

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO JUNE 1975

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	11.5	10.5	11.0	2.0	1.5	1.5	2.0	1.5	1.5
2	15.5	15.0	15.0	12.0	11.0	11.5	3.0	1.5	2.0	2.5	1.5	2.0
3	15.0	13.5	14.0	11.5	11.0	11.0	3.0	2.0	2.0	2.0	1.0	1.5
4	14.0	13.0	13.5	12.5	11.5	12.0	2.5	1.5	2.0	2.0	1.0	1.5
5	14.0	13.0	13.5	12.0	11.5	11.5	2.5	0.5	2.0	1.5	1.0	1.0
6	14.0	13.0	13.5	12.0	11.0	11.5	2.5	1.0	1.5	1.5	0.5	1.0
7	15.0	13.5	14.0	11.0	10.5	11.0	1.5	1.0	1.5	1.5	1.0	1.0
8	14.5	13.5	14.0	10.5	10.0	10.0	3.5	1.5	2.0	2.0	0.5	1.5
9	14.5	13.0	13.5	10.0	9.5	10.0	4.0	2.5	3.0	2.0	1.5	1.5
10	14.0	13.0	13.5	10.0	9.0	9.5	2.5	2.0	2.5	2.0	1.0	1.5
11	14.0	13.0	13.5	10.0	8.5	9.5	2.5	1.5	2.0	2.5	1.5	2.0
12	13.5	13.0	13.0	10.0	9.0	9.5	3.0	2.0	2.5	2.5	2.0	2.0
13	14.5	13.0	13.5	9.5	8.0	9.0	3.0	2.5	3.0	2.0	1.5	2.0
14	13.5	12.5	13.0	9.0	7.5	8.0	3.5	3.0	3.0	1.5	1.0	1.0
15	14.0	13.0	13.5	8.5	7.5	8.0	3.5	3.0	3.0	1.0	0.5	1.0
16	13.5	13.0	13.0	7.5	6.5	7.0	3.0	2.5	2.5	1.0	0.0	0.5
17	13.0	12.0	12.5	6.5	5.5	6.0	2.5	1.5	2.0	1.5	0.5	1.0
18	12.0	11.0	11.5	6.0	5.5	6.0	2.5	1.5	2.0	1.0	0.5	0.5
19	11.5	10.0	10.5	6.5	5.0	5.5	2.5	1.5	2.0	1.0	0.5	1.0
20	10.5	9.0	9.5	7.0	6.0	6.5	2.5	2.0	2.0	1.5	0.5	1.0
21	9.5	8.5	9.0	7.0	6.5	6.5	2.5	2.0	2.0	1.5	0.5	1.0
22	9.0	8.0	8.5	6.5	4.5	5.5	3.0	2.5	2.5	1.5	0.5	1.0
23	9.5	8.5	9.0	4.5	3.5	4.0	3.0	2.0	2.5	1.5	0.5	1.0
24	10.0	9.0	9.5	3.5	3.5	3.5	3.0	2.5	2.5	1.5	0.5	1.0
25	9.5	9.0	9.0	4.0	3.5	4.0	2.5	1.5	2.0	1.5	1.0	1.5
26	10.0	9.0	9.5	4.0	3.0	3.5	2.0	1.0	1.5	1.5	1.0	1.5
27	10.0	8.5	9.0	3.0	2.5	2.5	2.0	1.0	1.5	1.5	1.0	1.0
28	10.0	8.5	9.0	2.5	2.0	2.5	1.5	1.0	1.5	1.5	0.5	1.0
29	10.5	9.0	9.5	2.5	2.0	2.5	2.0	1.0	1.5	1.5	1.5	1.5
30	10.5	9.5	10.0	2.5	2.0	2.0	3.0	1.5	2.0	2.0	1.0	1.5
31	11.0	10.0	10.5	---	---	---	2.5	1.5	2.0	1.0	0.5	1.0
MONTH	16.5	8.0	12.0	12.5	2.0	7.5	4.0	0.5	2.0	2.5	0.0	1.5

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO JUNE 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	3.0	2.0	2.5	4.0	3.0	3.5	9.5	9.0	9.5
2	1.0	0.5	1.0	2.5	2.0	2.0	5.0	4.0	4.5	9.5	9.5	9.5
3	2.0	0.5	1.0	2.5	1.5	2.0	5.0	4.0	4.5	10.0	9.0	9.5
4	1.5	0.5	1.0	2.5	1.5	2.0	---	---	---	10.0	9.5	10.0
5	1.0	0.5	1.0	3.0	1.5	2.0	---	---	---	10.5	9.5	10.0
6	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	10.5	9.0	10.0
7	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	11.5	10.0	10.5
8	1.0	0.5	0.5	4.0	2.5	3.0	---	---	---	12.0	11.0	11.5
9	1.0	0.5	0.5	3.0	1.5	2.0	---	---	---	12.5	11.5	12.0
10	1.5	0.5	1.0	2.0	1.0	1.5	---	---	---	13.5	12.0	12.5
11	1.0	0.5	1.0	3.0	1.0	2.0	---	---	---	14.0	12.5	13.5
12	1.0	0.5	0.5	3.0	2.0	2.5	---	---	---	15.0	13.0	14.0
13	1.5	0.5	1.0	3.5	2.5	3.0	---	---	---	16.0	14.0	15.0
14	1.5	0.5	1.0	3.0	2.5	3.0	---	---	---	15.5	14.5	15.0
15	1.5	0.5	1.0	2.5	1.5	2.0	---	---	---	16.5	15.0	16.0
16	1.0	0.5	1.0	3.5	1.5	2.5	---	---	---	17.0	15.5	16.5
17	1.5	0.5	1.0	5.5	3.0	4.0	8.5	8.0	8.5	17.5	16.0	17.0
18	2.0	1.0	1.5	6.0	4.0	5.0	8.5	8.0	8.5	18.0	16.5	17.0
19	2.0	1.5	1.5	5.5	5.0	5.0	8.0	7.5	7.5	19.0	17.0	18.5
20	2.5	1.5	2.0	6.0	3.5	4.5	7.5	7.0	7.5	20.5	18.5	19.5
21	3.0	1.5	2.0	3.5	2.5	3.0	7.0	6.5	6.5	21.0	19.5	20.0
22	2.5	1.5	2.0	3.0	2.0	2.5	6.5	6.0	6.0	20.5	19.5	20.0
23	3.0	2.0	2.5	3.5	2.0	3.0	7.0	6.0	6.5	21.5	20.0	20.5
24	3.0	2.5	3.0	3.5	3.0	3.0	7.5	7.0	7.5	22.0	21.0	21.5
25	2.0	1.0	1.5	4.0	2.5	3.0	8.5	7.5	8.0	22.0	20.5	21.0
26	3.0	1.5	2.0	4.0	3.5	3.5	8.5	8.0	8.5	21.0	19.5	20.0
27	2.5	2.0	2.5	3.5	2.0	2.5	8.5	8.0	8.0	21.5	20.0	20.5
28	3.0	2.0	2.5	3.0	2.0	2.5	8.5	7.5	8.0	---	---	---
29	---	---	---	3.0	2.5	2.5	8.5	7.5	8.0	22.0	21.5	22.0
30	---	---	---	3.0	2.0	2.5	9.5	8.0	9.0	21.5	21.0	21.5
31	---	---	---	3.5	2.5	3.0	---	---	---	21.5	20.5	21.0
MONTH	3.0	0.5	1.5	6.0	1.0	3.0	---	---	---	22.0	9.0	16.0

JUNE			
DAY	MAX	MIN	MEAN
1	21.0	20.5	21.0
2	22.0	20.5	21.0
3	21.5	20.5	21.0
4	21.0	19.5	20.5
5	19.5	18.5	19.0
6	18.5	17.5	18.0
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---
13	---	---	---
14	---	---	---
15	---	---	---
16	---	---	---
17	---	---	---
18	---	---	---
19	---	---	---
20	---	---	---
21	---	---	---
22	---	---	---
23	---	---	---
24	---	---	---
25	---	---	---
26	---	---	---
27	---	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	---	---	---
PERIOD	22.0	0.0	6.5

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (109.7 km).
DRAINAGE AREA.--9,661 mi² (25,022 km²).

DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft (11.729 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light and Power Co. Flow regulated by powerplants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir (see p. 245), and other reservoirs (combined usable capacity, about 107 billion cubic feet or 3.03 billion cubic meters).

AVERAGE DISCHARGE.--47 years, 16,270 ft³/s (460.8 m³/s), 22.87 in/yr (581 mm/yr), adjusted for storage and diversion.

EXTREMES.--Period of record: Maximum discharge, 282,000 ft³/s (7,990 m³/s) Mar. 20, 1936 (gage height, 16.6 ft or 5.06 m, from floodmarks); minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

Current year: Maximum discharge, 68,500 ft³/s (1,940 m³/s) Apr. 22 (gage height, 5.37 ft or 1.637 m); minimum daily, 2,540 ft³/s (71.9 m³/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14800	8930	12300	11500	15200	22800	27200	29900	8730	4580	5340	11900
2	16400	8540	11800	9190	13300	18600	22700	32500	10100	4260	6520	6550
3	15000	5470	14500	10000	12200	16600	24000	38600	10700	4720	2870	6490
4	14200	5910	16400	9800	11200	16900	56000	38700	12400	4580	4170	6010
5	13000	9270	15000	7560	12000	16300	47000	43300	14300	2540	7010	7830
6	11600	14400	14600	8210	12700	16200	35300	44400	14700	2850	6050	5930
7	6900	15500	13800	9000	13600	15100	28800	39000	24100	3280	6130	5400
8	8340	14400	12600	10100	13200	15900	26600	35800	23600	4390	11400	4830
9	4300	13500	17700	10600	10500	14100	23900	33100	20300	3290	32300	6510
10	8940	9900	27000	12100	7660	11700	22100	29100	16400	4150	22800	5350
11	7930	9940	28200	12700	9820	12000	20300	23300	13900	3990	14200	4450
12	7310	10500	24700	15300	10800	13200	21400	19300	13300	3370	12000	4790
13	5260	12700	21300	17600	9240	14400	20000	18800	19900	3700	9050	6170
14	5760	15700	19800	20700	9100	15200	19900	25700	29600	19000	8280	4670
15	6060	14800	18200	18600	9480	14900	20300	26400	25500	29300	6750	4700
16	9090	14100	16600	16700	8200	12000	21400	22000	20500	23400	4980	6340
17	12600	13400	17600	15400	7630	9790	24800	21500	16800	17600	3320	6730
18	15700	11700	18200	13200	8250	13400	30600	19600	16800	15100	4000	6100
19	13600	10500	17700	9860	9520	14900	41300	16300	16300	13200	3940	7910
20	10900	11800	17400	10000	10700	33100	50700	13100	14000	7500	4220	8790
21	4200	15700	14700	11400	10700	62200	63200	12800	9470	11000	3410	9970
22	11200	29300	14000	13500	11200	63400	65500	14600	7040	13700	4520	8390
23	9510	30500	11400	11600	9520	53000	58300	14300	6200	12900	4310	10600
24	8160	20500	11200	9750	12800	44500	51100	13800	7380	9830	2610	15300
25	8630	16000	13000	10500	28100	47500	52200	12500	7930	9780	3060	22900
26	4380	18600	12300	14000	39600	48800	58400	8610	5070	10600	3750	35700
27	6290	20100	11500	15900	32100	48100	56500	7800	4340	7050	4460	58100
28	6540	16700	13200	15300	26900	37000	47800	7350	4230	6860	6810	59700
29	8100	17200	10300	15600	---	32400	40400	8440	3710	5200	4520	46700
30	7470	16100	8060	16600	---	30700	32700	8900	4170	5410	8520	38600
31	8310	---	11300	18800	---	27700	---	7150	---	5230	16800	---
TOTAL	303520	433150	486360	399070	385220	812390	1110400	686650	401470	272360	238100	433410
MEAN	9791	14440	15690	12870	13760	26210	37010	22150	13380	8786	7681	14450
MAX	16400	30500	28200	20700	39600	63400	65500	44400	29600	29300	32300	59700
MIN	5260	5910	8060	7560	7630	9790	19900	7150	3710	2540	2610	4450
(†)	129	343	234	119	352	0	2.17	136	676	378	615	433
MEAN†	8756	14760	15750	12490	12920	25800	39750	25380	13660	9110	7572	15470
CFSM†	.91	1.53	1.63	1.29	1.34	2.67	4.11	2.63	1.41	.94	.78	1.60
IN.†	1.05	1.70	1.88	1.49	1.39	3.08	4.59	3.03	1.58	1.09	.90	1.79
CAL YR 1974 TOTAL	6721550			MEAN 18420	MAX 74300	MIN 1910		MEAN† 18520	CFSM† 1.92	IN† 26.03		
WTR YR 1975 TOTAL	5962100			MEAN 16330	MAX 65500	MIN 2540		MEAN† 16770	CFSM† 1.74	IN† 23.57		

† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs listed on page 245 and for diversion from Chicopee River basin.

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY RECORDS

INSTRUMENTATION.--Two-parameter water-quality monitor.

PERIOD OF RECORD.--CHEMICAL ANALYSES: October 1955 to September 1956, January 1966 to current year.

WATER TEMPERATURES: October 1955 to September 1956, January 1969 to current year.

BIOLOGICAL DETERMINATIONS: October 1974 to current year.

SEDIMENT: October 1973 to current year.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE (1974-75): Maximum recorded, 142 micromhos Jan. 20, 1975; minimum recorded, 60 micromhos June 14, 1975.

WATER TEMPERATURES: Maximum, 32°C Aug. 3, 1975; minimum, freezing point on many days during winter months.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, 142 micromhos Jan. 20, 1975; minimum recorded, 60 micromhos June 14, 1975.

WATER TEMPERATURES: Maximum, 32°C Aug. 3; minimum, 0.5°C on many days during January and February.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (FT ³ /S)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	DIS- SOLVED SILICA (SI0 ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT.												
08...	0930	7670	7.0	9.0	13.0	8.3	78	4.9	12	2.3	6.0	1.0
NOV.												
06...	0920	14600	7.0	16.0	11.0	9.4	85	5.5	11	2.1	6.0	1.3
DEC.												
11...	0920	27300	7.1	1.0	1.5	13.8	98	5.7	8.0	1.8	7.0	1.1
JAN.												
15...	1010	19300	7.1	-5.0	.5	13.6	94	6.1	9.0	1.7	7.4	.8
FEB.												
12...	0915	10200	6.9	-7.0	.0	13.4	92	6.2	9.7	2.0	8.0	.8
MAR.												
12...	0925	13200	7.0	3.5	2.5	13.3	96	5.9	10	1.8	8.5	1.1
APR.												
16...	0935	24200	6.9	11.5	6.5	12.1	98	5.7	9.0	1.5	5.2	1.0
MAY												
14...	0925	25800	6.9	24.5	14.0	9.8	94	4.7	7.3	1.3	4.2	2.1
JUNE												
18...	0945	17100	6.9	26.0	18.5	8.4	89	5.5	8.5	1.5	4.6	1.0
JULY												
09...	0920	2200	7.3	28.0	27.0	8.3	102	2.6	12	1.7	8.1	1.4
AUG.												
06...	0930	5290	6.8	26.5	27.0	7.7	95	3.8	12	1.7	8.1	1.6
SEP.												
17...	0910	6230	7.1	15.5	18.0	8.4	88	4.1	14	1.0	7.9	1.5

DATE	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
OCT.												
08...	33	0	27	11	8.2	.1	.01	.32	.40	.83	.43	1.2
NOV.												
06...	29	0	24	13	10	.2	.01	.43	.29	.43	.14	.86
DEC.												
11...	17	0	14	12	16	.0	.02	.33	.33	.40	.07	.73
JAN.												
15...	20	0	16	9.6	10	.0	.00	.36	.14	.33	.19	.69
FEB.												
12...	26	0	21	12	13	.2	.01	.51	.19	.88	.69	1.4
MAR.												
12...	30	0	25	12	14	.2	.01	.50	.19	.40	.21	.90
APR.												
16...	20	0	16	9.1	8.7	.1	.01	.43	.07	.17	--	.60
MAY												
14...	16	0	13	8.5	4.5	.1	.01	.27	.01	.32	--	.59
JUNE												
18...	21	0	17	10	7.9	.0	.01	.28	.19	.44	.25	.72
JULY												
09...	30	0	25	13	13	.1	.01	.15	.08	.76	--	.91
AUG.												
06...	32	0	26	8.9	11	.1	.02	.16	.09	.83	.74	.99
SEP.												
17...	33	0	27	11	10	.1	.02	.29	.10	.59	.49	.88

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL RESI- DUE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)
OCT.											
08...	5.1	.11	87	82	62	1700	.11	39	12	114	10
NOV.											
06...	3.8	.09	72	74	64	2920	.10	36	12	112	20
DEC.											
11...	3.2	.06	77	72	60	5310	.10	27	13	87	20
JAN.											
15...	3.1	.04	71	78	55	4060	.11	29	13	100	4
FEB.											
12...	6.2	.07	81	82	65	2260	.11	32	11	115	10
MAR.											
12...	4.0	.07	93	80	68	2850	.11	32	8	118	10
APR.											
16...	2.7	.05	71	60	50	3920	.08	29	12	93	3
MAY											
14...	2.6	.06	89	50	41	3480	.07	24	10	79	12
JUNE											
18...	3.2	.07	79	56	50	2590	.08	27	10	85	10
JULY											
09...	4.0	.14	93	79	67	469	.11	37	12	120	4
AUG.											
06...	4.4	.08	81	66	63	943	.09	37	11	175	8
SEP.											
17...	3.9	.08	111	62	66	1040	.08	39	12	130	3

DATE	TUR- BID- ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHENOLS (UG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM
OCT.											
08...	1	5.3	110000	8200	1100	7.2	1	.0	--	.4	24
NOV.											
06...	4	4.6	56000	5500	1000	4.7	0	.0	2	.4	26
DEC.											
11...	5	2.2	20000	2000	700	5.2	0	.0	--	.6	35
JAN.											
15...	3	2.5	7300	970	220	3.9	0	.0	--	.6	35
FEB.											
12...	5	5.2	18000	3600	1400	3.9	0	.1	--	.6	34
MAR.											
12...	3	4.8	32000	2000	1100	3.9	0	.1	--	.7	35
APR.											
16...	3	4.0	501	2000	130	3.5	0	.0	--	.4	27
MAY											
14...	5	3.2	12000	1000	200	6.3	0	.0	--	.4	26
JUNE											
18...	4	4.2	65000	3600	220	4.8	0	.0	--	.4	26
JULY											
09...	5	2.4	70000	6000	220	5.5	0	.0	--	.6	31
AUG.											
06...	4	8.1	68000	9400	480	7.8	0	.1	--	.6	31
SEP.											
17...	3	4.2	140000	15000	1400	6.7	0	.0	--	.6	30

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	SUS- SED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDE SEDIM MENT CHARGE (MG/L)	SUS- PENDE SEDIM MENT DIS- CHARGE (T/DAY)	RED MAT. FALL DIAM. % FINER THAN .004 MM	RED MAT. FALL DIAM. % FINER THAN .062 MM	RED MAT. FALL DIAM. % FINER THAN 2.00 MM	CHLORO- PHYLL A (UG/L)
OCT.							
08...	--	--	--	0	1	100	8.5
10...	91	8	--	--	--	--	--
NOV.							
06...	79	22	867	--	--	--	2.5
DEC.							
11...	83	37	2727	--	--	--	1.5
JAN.							
15...	67	41	2140	--	--	--	--
20...	--	--	--	--	--	--	--
FEB.							
12...	100	4	110	--	--	--	.0
MAR.							
12...	100	13	463	--	--	--	--
APR.							
16...	87	22	1440	--	--	--	.0
18...	--	--	--	--	--	--	--
MAY							
14...	77	11	766	--	--	--	.0
JUNE							
18...	88	20	923	--	--	--	.0
24...	--	--	--	--	--	--	--
JULY							
09...	--	--	--	--	--	--	43
10...	91	14	--	--	--	--	--
AUG.							
06...	--	--	--	--	--	--	16
08...	85	13	--	--	--	--	--
SEP.							
05...	--	--	--	--	--	--	--
17...	--	9	151	--	--	--	10

DATE	CHLORO- PHYLL B (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M
OCT.						
08...	7.5	2700	--	--	--	--
10...	--	--	--	--	--	--
NOV.						
06...	.0	5100	--	--	--	--
DEC.						
11...	.5	6800	--	--	--	--
JAN.						
15...	--	580	--	--	--	--
20...	--	--	3.8	6.2	2.0	.1
FEB.						
12...	.0	890	--	--	--	--
MAR.						
12...	--	290	--	--	--	--
APR.						
16...	.0	--	--	--	--	--
18...	--	960	--	--	--	--
MAY						
14...	.0	2000	--	--	--	--
JUNE						
18...	.0	2300	--	--	--	--
24...	--	--	2.1	3.8	1.8	.4
JULY						
09...	4.3	48000	--	--	--	--
10...	--	--	--	--	--	--
AUG.						
06...	.0	28000	--	--	--	--
08...	--	--	--	--	--	--
SEP.						
05...	--	--	39	51	6.2	1.9
17...	.0	9500	--	--	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT. 08...	--	--	--	2	--	--	--	1	--	--	--
NOV. 08...	2	0	2	--	<10	0	10	--	0	<10	<10
DEC. 11...	--	--	--	--	--	--	--	--	--	--	--
JAN. 15...	--	--	--	--	--	--	--	--	--	--	--
FEB. 12...	2	0	2	--	1	0	1	--	0	0	0
MAR. 12...	--	--	--	--	--	--	--	--	--	--	--
APR. 16...	--	--	--	--	--	--	--	--	--	--	--
MAY 14...	--	--	--	--	--	--	--	--	--	--	--
JUNE 18...	1	0	1	--	1	0	1	--	<10	10	20
JULY 09...	--	--	--	--	--	--	--	--	--	--	--
AUG. 06...	0	0	0	--	2	0	2	--	<10	0	<10
SEP. 17...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
OCT. 08...	4	--	--	--	10	--	--	10	160	--	AS000
NOV. 08...	--	0	0	0	0	10	10	--	160	760	--
DEC. 11...	--	--	--	--	0	--	--	--	130	--	--
JAN. 15...	--	--	--	--	10	--	--	--	150	--	--
FEB. 12...	--	0	1	1	0	0	0	--	140	260	--
MAR. 12...	--	--	--	--	0	--	--	--	120	--	--
APR. 16...	--	--	--	--	0	--	--	--	120	--	--
MAY 14...	--	--	--	--	0	--	--	--	220	--	--
JUNE 18...	--	0	0	0	20	10	30	--	140	610	--
JULY 09...	--	--	--	--	10	--	--	--	50	--	--
AUG. 06...	--	2	0	2	0	0	0	--	40	270	--
SEP. 17...	--	--	--	--	10	--	--	--	60	--	--

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DATE	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 08...	--	--	--	10	--	60	--	--	7100	--
NOV. 06...	1	5	6	--	--	70	60	130	--	<.5
DEC. 11...	--	--	--	--	--	30	--	--	--	--
JAN. 15...	--	--	--	--	--	50	--	--	--	--
FEB. 12...	2	0	2	--	--	60	0	60	--	<.5
MAR. 12...	--	--	--	--	--	50	--	--	--	--
APR. 16...	--	--	--	--	--	70	--	--	--	--
MAY 14...	--	--	--	--	--	30	--	--	--	--
JUNE 18...	3	1	4	--	0	40	20	60	--	<.5
JULY 09...	--	--	--	--	--	10	--	--	--	--
AUG. 06...	0	2	2	--	--	0	70	70	--	<.5
SEP. 17...	--	--	--	--	--	10	--	--	--	--

DATE	SUS- PENDE D MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOT- TOM MA- TERIAL (UG/G)
OCT. 08...	--	--	.0	--	--	--	30	--	--	43
NOV. 06...	.0	<.5	--	0	0	0	20	130	150	--
DEC. 11...	--	--	--	--	--	--	10	--	--	--
JAN. 15...	--	--	--	--	--	--	20	--	--	--
FEB. 12...	.0	<.5	--	1	0	1	30	0	20	--
MAR. 12...	--	--	--	--	--	--	10	--	--	--
APR. 16...	--	--	--	--	--	--	20	--	--	--
MAY 14...	--	--	--	--	--	--	30	--	--	--
JUNE 18...	.0	<.5	--	0	1	1	0	20	20	--
JULY 09...	--	--	--	--	--	--	0	--	--	--
AUG. 06...	.0	<.5	--	0	0	0	0	0	0	--
SEP. 17...	--	--	--	--	--	--	10	--	--	--

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 08...	.0	5	.0	.0	.4	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 08...	0	0	.0	.0	.0	.0	.0	.0	.0	29	3.5	1000

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL FILT- FABLE RESIDUE (MG/L)	TOTAL NON- FILT- FABLE RESIDUE (MG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED PA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
APR. 16...	63	5	2.3	.5	.03	.02	<.6	<.4	1.8	.5

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†OCT. 08	0930	CHLOROPHYTA			†DEC. 11	0920	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		..OCCYSTACEAE					..OCCYSTACEAE		
		ANKISTRODESMUS	27	1			ANKISTRODESMUS	78	1
		SCENEDESMACEAE					CHRYSOPHYTA		
		ACTINASTRUM	210	8			..BACILLARIOPHYCEAE		
		SCENEDESMUS	80	3			..CENTRALES		
		..VOLVOCELES					..COSCINODISCACEAE		
		CHLAMYDOMONADACEAE					..CYCLOTELLA	78	1
		CHLAMYDOMONAS	240	9			..PENNALES		
		CHRYSOPHYTA					..ACHNANTHACEAE		
		..BACILLARIOPHYCEAE					ACHNANTHES	860	12
		..CENTRALES					..COCCONEIS	160	2
		..CHAETOCERACEAE					..CYMBELLACEAE		
		CHAETOCEROS	110	4			CYMBELLA	78	1
		..COSCINODISCACEAE					..FRAGILARIACEAE		
		..CYCLOTELLA	750	28			ASTERIONELLA	160	2
		..MELOSIRA	270	10			..FRAGILARIA	230	3
		..PENNALES					..GOMPHONEMACEAE		
		..CYMBELLACEAE					GOMPHONEMA	160	2
		AMPHORA	27	1			..NAVICULACEAE		
		..FRAGILARIACEAE					NAVICULA	700	10
		SYNEDRA	27	1			..NITZSCHACEAE		
		..NAVICULACEAE					NITZSCHIA	700	10
		NAVICULA	27	1			CYANOPHYTA		
		NEIDIUM	27	1			..MYXOPHYCEAE		
		..NITZSCHACEAE					..OSCILLATORIALES		
		NITZSCHIA	27	1			..OSCILLATORIAEAE		
		CYANOPHYTA					LYNGBYA	3,700	53
		..MYXOPHYCEAE					TOTAL	6,800	
		..CHROOCOCCALES			†JAN. 15	1010	CHRYSOPHYTA		
		..CHROOCOCCACEAE					..BACILLARIOPHYCEAE		
		ANACYSTIS	80	3			..PENNALES		
		..OSCILLATORIALES					..ACHNANTHACEAE		
		..OSCILLATORIAEAE					ACHNANTHES	120	20
		LYNGBYA	800	30			..CYMBELLACEAE		
		TOTAL	2,700				CYMBELLA	39	7
†NOV. 06	1315	CHLOROPHYTA					..FRAGILARIACEAE		
		..CHLOROPHYCEAE					ASTERIONELLA	78	13
		..ULOTRICHALES					..FRAGILARIA	140	23
		..CHAETOPHORACEAE					..HANNAEA	39	7
		STIGEOCLONIUM	540	11			SYNEDRA	39	7
		..ZYGNEATALES					..NAVICULACEAE		
		..DESMIDIACEAE					NAVICULA	120	20
		..COSMARIIUM	49	1			..NITZSCHACEAE		
		CHRYSOPHYTA					NITZSCHIA	19	3
		..BACILLARIOPHYCEAE			†FEB. 12	0915	TOTAL	580	
		..CENTRALES					CHRYSOPHYTA		
		..COSCINODISCACEAE					..BACILLARIOPHYCEAE		
		MELOSIRA	300	6			..CENTRALES		
		..PENNALES					..COSCINODISCACEAE		
		..ACHNANTHACEAE					CYCLOTELLA	18	2
		COCCONEIS	49	1			..PENNALES		
		..CYMBELLACEAE					ACHNANTHACEAE		
		AMPHORA	99	2			ACHNANTHES	18	2
		..CYMBELLA	49	1			..CYMBELLACEAE		
		..FRAGILARIACEAE					CYMBELLA	36	4
		ASTERIONELLA	2,200	43			..FRAGILARIACEAE		
		..HANNAEA	49	1			HANNAEA		
		..GOMPHONEMACEAE					HANNAEA ARCUS	140	16
		GOMPHONEMA	49	1			..GOMPHONEMACEAE		
		..NAVICULACEAE					GOMPHONEMA	18	2
		NAVICULA	490	10			..NAVICULACEAE		
		..SURIPELLACEAE					NAVICULA	89	10
		SURIPELLA	49	1			CHRYSOPHYCEAE		
		CHRYSOPHYCEAE					..CHRYSONOMADALES		
		..CHRYSONOMADALES					..OCHROMONADACEAE		
		..OCHROMONADACEAE					DINOBYRON	18	2
		DINOBYRON	99	2			CYANOPHYTA		
		CYANOPHYTA					..MYXOPHYCEAE		
		..MYXOPHYCEAE					..OSCILLATORIALES		
		..OSCILLATORIALES					..OSCILLATORIAEAE		
		..NOSTOCACEAE					OSCILLATORIA	550	62
		ANABAENA	1,100	21			TOTAL	890	
		TOTAL	5,100						

† USED DEPTH INTEGRATED SAMPLING METHOD.

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†MAY 12	0925	CHRYSOPHYTA			†JUNE 18	0945	CHLOROPHYTA		
		..BACILLARIOPHYCEAE					..CHLOROPHYCEAE		
		..CENTRALES					..CHLOROCOCCALES		
		..COSCINODISCACEAE					..CHARACIACEAE		
		..MELOSIRA	11	4			..SCHROEDERIA	27	1
		..PENNALES					..MICRACTINIACEAE		
		..ACHNANTHACEAE					..MICRACTINIUM	110	5
		..ACHNANTHES	34	12			..OCCYSTACEAE		
		..DIATOMACEAE					..ANKISTRODESMUS	27	1
		..DIATOMA	23	8			..KIRCHNERIELLA	27	1
		..FRAGILARIACEAE					..SCENEDESMACEAE		
		..FRAGILARIA	100	36			..CRUCIGENIA	110	5
		..HANNAEA	46	16			..SCENEDESMUS	53	2
		..NAVICULACEAE					..TETRASTRUM	110	5
		..NAVICULA	34	12			CHRYSOPHYTA		
		..NITZSCHACEAE					..BACILLARIOPHYCEAE		
		..NITZSCHIA	34	12			..CENTRALES		
		TOTAL	290				..COSCINODISCACEAE		
†APR 18	1330	CHRYSOPHYTA					..CYCLOTELLA	610	27
		..BACILLARIOPHYCEAE					..MELOSIRA	130	6
		..CENTRALES					..PENNALES		
		..COSCINODISCACEAE					..ACHNANTHACEAE		
		..MELOSIRA	22	2			..ACHNANTHES	270	12
		..PENNALES					..CYMBELLACEAE		
		..ACHNANTHACEAE					..CYMBELLA	80	4
		..ACHNANTHES	33	3			..FRAGILARIACEAE		
		..COCCONEIS	11	1			..SYNEDRA	27	1
		..CYMBELLACEAE					..GOMPHONEMACEAE		
		..CYMBELLA	67	7			..GOMPHONEMA	53	2
		..DIATOMACEAE					..NAVICULACEAE		
		..DIATOMA	33	3			..NAVICULA	210	9
		..EUNOTIACEAE					..NITZSCHACEAE		
		..EUNOTIA	78	8			..NITZSCHIA	27	1
		..FRAGILARIACEAE					..CHRYSOPHYCEAE		
		..ASTERIONELLA	45	5			..CHRYSOMONADALES		
		..FRAGILARIA	110	12			..OCHROMONADACEAE		
		..GOMPHONEMACEAE					..DINORRYON	80	4
		..GOMPHONEMA	22	2			CYANOPHYTA		
		..NITZSCHACEAE					..MYXOPHYCEAE		
		..NITZSCHIA	89	9			..CHROOCOCCALES		
		CYANOPHYTA					..CHROOCOCCACEAE		
		..MYXOPHYCEAE					..ANACYSTIS	320	14
		..OSCILLATORIALES					TOTAL	2300	
		..OSCILLATORIA							
		TOTAL	450	47					
			960						
†MAY 14	0925	CHRYSOPHYTA							
		..BACILLARIOPHYCEAE							
		..CENTRALES							
		..COSCINODISCACEAE							
		..MELOSIRA	66	3					
		..PENNALES							
		..ACHNANTHACEAE							
		..ACHNANTHES	330	17					
		..CYMBELLACEAE							
		..CYMBELLA	130	7					
		..DIATOMACEAE							
		..DIATOMA	66	3					
		..FRAGILARIACEAE							
		..FRAGILARIA	130	7					
		..HANNAEA							
		..HANNAEA ARCUS	330	17					
		..GOMPHONEMACEAE							
		..GOMPHONEMA	66	3					
		..NAVICULACEAE							
		..NAVICULA	390	20					
		..NITZSCHACEAE							
		..NITZSCHIA	460	23					
		TOTAL	2000						

† USED DEPTH INTEGRATED SAMPLING METHOD.

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL
†JULY 09	0920	CHLOROPHYTA			†AUG. 06	0930	CHLOROPHYTA		
		..CHLOROPHYCEAE					..CHLOROPHYCEAE		
		..CHLOROCOCCALES					..CHLOROCOCCALES		
		..COELASTRACEAE					..HYDRODICTYACEAE		
		COELASTRUM	5,200	11			PEDIATRUM	3,800	13
		HYDRODICTYACEAE					MICRACINIAEAE		
		PEDIATRUM		*			MICRACINIUM	2,400	8
		MICRACINIAEAE					OCCYSTACEAE		
		GOLENKINIA	240	1			ANKISTHODESMUS	240	1
		MICRACINIUM	5,600	12			CHODATELLA	240	1
		OCCYSTACEAE					DICTYOSPHAERIUM	2,900	10
		ANKISTHODESMUS	1,400	3			OCCYSTIS		*
		CHODATELLA	560	1			SCENEDESMACEAE		
		DICTYOSPHAERIUM	320	1			ACTINASTRUM	1,900	7
		KIRCHNERIELLA	320	1			SCENEDESMUS	2,900	10
		SELENASTRUM	730	2			TETRASTRUM		*
		TETRAEDRON		*			VOLVOCALES		
		SCENEDESMACEAE					VOLVOCAEAE		
		CRUCIGENIA	1,600	3			EUDORINA		*
		SCENEDESMUS	3,500	7			ZYGNEMATALES		
		TETRASTRUM	1,300	3			DESMIDIACEAE		
		..VOLVOCALES					STAUASTRUM		*
		..VOLVOCAEAE					CHRYSTOPHYTA		
		PANDORINA		*			..BACILLARIOPHYCEAE		
		CHRYSTOPHYTA					..CENTRALES		
		..BACILLARIOPHYCEAE					..COSCINODISCACEAE		
		..CENTRALES					CYCLOTELLA	9,300	33
		..COSCINODISCACEAE					MELOSIRA	4,100	14
		CYCLOTELLA	18,000	37			..PENNALES		
		MELOSIRA	1,700	4			..ACHNANTHACEAE		*
		..PENNALES					..COCCONEIS		*
		..ACHNANTHACEAE					..CYMBELLACEAE		*
		ACHNANTHES		*			..CYMBELLA		*
		..FRAGILARIACEAE					..FRAGILARIACEAE		*
		ASTERIONELLA		*			..FRAGILARIA		*
		..FRAGILARIA	480	1			..SYNEDRA		*
		SYNEDRA	400	1			..NITZSCHIAEAE		
		..GOMPHONEMATAEAE					NITZSCHIA	720	3
		GOMPHONEMA		*			..TABELLARIACEAE		
		..NAVICULACEAE					TABELLARIA		*
		NAVICULA		*			CYANOPHYTA		
		..NITZSCHIAEAE					..MYXOPHYCEAE		
		NITZSCHIA	2,200	5			..CHROOCOCCALES		
		..TABELLARIACEAE					..CHROOCOCCACEAE		*
		TABELLARIA		*			ANACYSTIS		*
		..XANTHOPHYCEAE					..OSCILLATORIALES		
		..HETEROCOCCALES					..NOSTOCACEAE		
		..CHLOROTHECIACEAE					ANABAENA		*
		OPHIOCYTIUM		*			..EUGLENOPHYTA		
		CYANOPHYTA					..EUGLENOPHYCEAE		
		..MYXOPHYCEAE					..EUGLENALES		
		..CHROOCOCCALES					..EUGLENACEAE		
		..CHROOCOCCACEAE					TRACHELOMONAS		*
		ANACYSTIS	970	2			TOTAL	28,000	
		..OSCILLATORIALES							
		..NOSTOCACEAE							
		ANABAENA	1,400	3					
		..OSCILLATORIAEAE							
		LYNGBYA	1,900	4					
		PYRRHOPHYTA							
		..DINOPHYCEAE							
		..GYMNODINIALES							
		..GYMNODINIAEAE							
		GYMNODINIUM		*					
		TOTAL	48,000						

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

† USED DEPTH INTEGRATED SAMPLING METHOD.

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
SEP. 17	0810	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...CHARACIACEAE			
		SCHROEDERIA	80	1	
		...HYDRODICTYACEAE			
		PEDIASTRUM		*	
		...MICRACTINIACEAE			
		MICRACTINIUM	880	9	
		...OCCYSTACEAE			
		DICTYOSPHAERIUM		*	
		OOCYSTIS		*	
		...SCENEDESMACEAE			
		ACTINASTRUM	640	7	
		CRUCIGENIA	320	3	
		SCENEDESMUS	160	2	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	5,100	54	
		MELOSIRA	2,200	24	
		..PENNALES			
		...CYMBELLACEAE			
		CYMBELLA	80	1	
		...FRAGILARIACEAE			
		ASTERIONELLA		*	
		FRAGILARIA		*	
		...NITZSCHACEAE			
		NITZSCHIA		*	
		...SURIRELLACEAE			
		SURIRELLA		*	
		...TABELLARIACEAE			
		TABELLARIA		*	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		..OSCILLATORIALES			
		...NOSTOCACEAE			
		ANABAENA		*	
		TOTAL	9,500		

* LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED.

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
JAN. 20	28	6.2	3.8	2.0	0.1	1200	POLYETHYLENE STRIP
JUNE 26	36	3.8	2.1	1.8	0.4	960	POLYETHYLENE STRIP
SEP. 05	28	51	39	6.2	1.9	1900	POLYETHYLENE STRIP

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	108	102	106	119	114	116	89	88	88	108	99	102
2	107	100	103	117	114	115	---	---	---	119	110	116
3	106	101	103	117	112	114	---	---	---	116	103	108
4	111	106	108	122	118	120	---	---	---	107	101	105
5	113	111	112	124	119	121	94	89	92	110	102	107
6	113	112	113	118	103	108	98	93	95	107	101	103
7	116	112	113	104	94	97	102	96	98	107	102	105
8	116	114	115	103	96	99	104	100	102	118	108	115
9	118	115	117	104	100	102	106	68	87	126	115	122
10	115	110	113	107	104	105	77	65	70	129	116	125
11	115	110	112	110	106	108	83	77	81	115	108	112
12	113	109	110	109	107	108	88	82	85	108	93	103
13	114	108	112	113	104	110	88	86	87	93	90	92
14	116	112	114	102	89	94	89	85	87	97	90	93
15	117	113	114	95	93	94	87	85	86	92	89	90
16	117	113	114	96	94	95	91	85	86	92	86	90
17	121	111	117	97	95	96	117	89	106	91	88	89
18	110	105	106	100	78	89	104	89	99	105	89	95
19	105	102	103	85	83	84	---	---	---	133	102	119
20	107	103	105	85	84	84	---	---	---	142	125	131
21	111	107	109	89	84	85	---	---	---	129	107	116
22	111	106	108	86	82	84	---	---	---	108	98	101
23	111	104	107	85	82	84	91	89	90	105	99	102
24	117	112	115	88	85	87	98	91	92	109	103	106
25	117	114	115	91	86	88	97	88	92	118	107	113
26	114	113	113	93	89	91	92	89	91	120	108	116
27	115	113	115	99	94	96	93	91	92	107	95	99
28	115	114	115	104	99	101	94	92	93	96	93	95
29	115	114	115	104	89	98	100	94	97	108	96	99
30	117	113	115	89	87	88	105	98	100	107	100	104
31	117	113	114	---	---	---	101	96	99	110	104	108
MONTH	121	100	111	124	78	99	---	---	---	142	86	106
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	104	103	104	101	94	97	81	79	80	82	79	80
2	105	103	104	102	100	101	83	81	82	83	81	82
3	106	102	104	102	101	101	85	75	82	84	81	83
4	103	101	101	102	101	101	74	62	68	82	80	80
5	104	102	103	104	101	102	68	62	64	80	76	79
6	105	98	101	109	104	106	72	68	70	75	74	75
7	114	105	111	110	106	108	74	71	72	75	72	73
8	111	104	107	113	109	111	71	67	69	75	73	74
9	106	103	105	112	108	109	75	72	74	76	73	75
10	110	104	107	112	107	109	83	75	78	79	75	77
11	113	110	112	120	112	115	92	84	89	80	78	79
12	111	106	108	123	116	120	93	87	90	83	79	81
13	105	103	105	120	116	118	88	86	87	86	81	84
14	111	105	109	121	108	113	87	85	86	80	67	71
15	115	111	113	123	107	113	86	84	84	72	68	70
16	120	115	117	137	125	134	88	85	87	81	72	76
17	121	117	119	134	119	125	88	85	87	83	79	81
18	121	117	119	119	116	118	86	83	85	84	81	82
19	131	121	126	118	109	114	83	81	82	88	82	85
20	132	130	131	116	74	101	80	75	77	91	85	89
21	129	122	126	77	70	75	76	74	75	91	90	90
22	121	113	117	72	66	69	76	72	74	90	87	89
23	114	113	114	74	72	73	76	73	75	90	88	89
24	115	96	110	74	67	71	79	76	78	94	89	91
25	95	74	81	72	67	70	79	76	77	95	93	94
26	74	71	72	67	66	66	76	75	76	94	92	93
27	76	71	75	76	68	74	75	74	74	98	94	96
28	95	74	86	77	76	76	76	74	75	99	95	97
29	---	---	---	81	77	80	79	76	77	100	98	100
30	---	---	---	82	79	80	80	78	79	100	98	99
31	---	---	---	81	77	79	---	---	---	100	95	98
MONTH	132	71	107	137	66	98	93	62	78	100	67	84

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	103	99	101	106	103	104	113	108	112	108	105	106
2	101	97	99	107	103	106	114	112	113	110	107	109
3	98	97	97	110	107	108	113	109	111	118	110	114
4	101	97	99	109	105	108	118	110	113	121	112	117
5	102	91	96	106	103	104	122	110	116	116	110	113
6	91	85	89	115	106	110	114	110	113	114	109	111
7	89	82	86	117	113	115	113	111	112	115	111	113
8	82	80	81	118	112	115	115	109	113	118	111	115
9	81	78	79	114	111	112	108	79	90	119	117	118
10	82	79	80	120	112	116	87	79	82	118	114	116
11	90	82	86	122	119	120	89	85	87	119	115	117
12	94	90	92	120	115	118	90	85	87	120	115	117
13	98	79	92	122	115	119	90	84	87	124	121	123
14	78	60	71	122	86	100	97	85	89	125	121	123
15	68	62	66	92	86	89	100	94	97	126	121	123
16	73	69	71	86	77	81	---	---	---	---	---	---
17	82	73	78	87	81	85	105	100	103	126	122	124
18	84	81	82	88	82	85	---	---	---	129	123	125
19	88	85	87	89	86	87	---	---	---	136	129	134
20	92	88	89	90	88	89	---	---	---	139	135	137
21	95	91	93	99	89	95	---	---	---	137	131	134
22	98	95	97	99	88	94	---	---	---	132	128	129
23	103	97	100	89	88	88	---	---	---	131	126	129
24	106	102	104	94	89	91	---	---	---	132	122	126
25	107	104	105	97	93	95	---	---	---	121	105	110
26	106	98	104	98	96	98	---	---	---	103	75	90
27	101	99	100	98	96	97	---	---	---	74	66	69
28	102	99	101	97	94	95	---	---	---	72	69	71
29	104	98	101	99	96	98	117	113	115	70	68	70
30	104	100	103	105	99	102	117	112	115	77	71	74
31	---	---	---	108	101	104	118	108	113	---	---	---
MONTH	107	60	91	122	77	101	---	---	---	139	66	113
YEAR	142	60	98									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	17.0	12.0	11.5	12.0	2.0	2.0	2.0	2.5	2.0	2.0
2	16.5	16.0	16.5	12.5	12.0	12.0	---	---	---	2.5	2.0	2.0
3	16.0	15.0	15.0	12.0	11.5	12.0	---	---	---	2.0	1.5	2.0
4	14.5	14.5	14.5	13.0	11.5	12.5	---	---	---	2.0	1.5	2.0
5	15.0	14.0	14.5	13.0	12.0	12.5	3.5	2.0	2.5	2.0	1.5	1.5
6	15.5	14.5	15.0	12.5	12.0	12.0	3.5	2.0	2.0	1.5	1.0	1.0
7	15.5	14.5	15.0	12.0	11.0	11.5	3.5	1.5	2.0	1.5	1.0	1.0
8	15.0	14.5	14.5	11.0	10.5	10.5	3.5	2.0	3.0	2.0	1.0	1.5
9	15.0	14.0	14.5	10.5	10.0	10.5	4.5	3.5	4.0	2.0	2.0	2.0
10	14.5	14.0	14.5	10.5	9.5	10.0	3.5	3.0	3.0	2.5	2.0	2.0
11	14.5	13.5	14.0	10.0	9.5	10.0	3.0	2.5	3.0	2.5	2.0	2.5
12	14.5	13.5	14.0	10.5	10.0	10.0	3.0	2.5	3.0	3.0	2.5	3.0
13	14.5	13.5	14.0	10.5	9.0	10.0	3.5	3.0	3.0	3.0	2.0	2.5
14	14.0	13.5	14.0	9.5	9.0	9.5	3.5	3.5	3.5	2.5	1.5	2.0
15	14.5	14.0	14.0	9.0	8.5	9.0	3.5	3.5	3.5	1.5	0.5	1.0
16	14.5	13.5	14.0	8.5	7.5	8.0	3.5	3.0	3.5	1.0	0.5	1.0
17	13.5	13.0	13.0	7.5	6.5	7.0	3.5	3.0	3.0	1.0	0.5	1.0
18	13.0	12.0	12.5	7.0	5.5	6.5	3.0	1.5	3.0	0.5	0.5	0.5
19	12.0	11.0	11.5	5.5	4.5	5.0	---	---	---	1.0	0.5	0.5
20	11.0	10.0	10.5	5.0	4.5	4.5	---	---	---	1.0	0.5	0.5
21	10.0	9.0	9.5	5.0	5.0	5.0	---	---	---	0.5	0.5	0.5
22	9.5	9.0	9.5	5.0	3.5	4.5	---	---	---	1.0	0.5	1.0
23	10.0	9.0	9.5	3.5	3.0	3.5	3.0	2.5	2.5	1.0	1.0	1.0
24	10.0	9.5	10.0	3.5	3.0	3.0	3.5	3.0	3.0	2.0	1.0	1.5
25	10.0	9.5	9.5	3.0	3.0	3.0	3.0	2.0	2.5	2.0	1.5	1.5
26	10.0	9.5	9.5	3.0	2.5	3.0	2.0	1.5	2.0	2.0	1.5	2.0
27	10.0	9.5	10.0	2.5	2.5	2.5	2.0	1.5	2.0	2.0	1.5	1.5
28	9.5	8.5	9.5	3.5	2.5	3.0	2.0	2.0	2.0	1.5	1.0	1.5
29	10.5	9.5	10.5	3.5	2.5	3.0	2.0	1.5	2.0	2.0	1.5	2.0
30	10.5	10.0	10.5	2.5	2.0	2.5	2.5	2.0	2.0	2.0	1.5	2.0
31	11.5	10.5	11.5	---	---	---	2.5	2.0	2.5	2.0	1.0	1.5
MONTH	17.0	8.5	12.5	13.0	2.0	7.5	---	---	---	3.0	0.5	1.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975.--Continued

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.0	1.5	3.0	2.5	2.5	5.0	3.5	4.0	10.0	9.5	9.5
2	1.5	1.0	1.5	3.0	2.5	2.5	6.0	4.5	5.0	10.0	9.5	10.0
3	1.5	1.0	1.5	3.0	2.0	2.5	6.5	5.0	5.5	10.5	9.5	10.0
4	1.5	0.5	1.0	2.5	2.0	2.5	5.5	3.5	4.0	10.5	10.5	10.5
5	1.0	0.5	0.5	3.0	2.0	2.5	4.0	3.0	3.0	10.5	10.0	10.5
6	1.0	0.5	0.5	3.0	2.0	2.5	4.0	3.5	3.5	11.0	10.0	10.5
7	1.5	1.0	1.5	3.0	2.5	3.0	5.0	4.0	4.5	12.0	10.5	11.0
8	1.5	1.0	1.0	3.5	3.0	3.5	5.0	4.0	4.5	12.5	11.5	12.0
9	1.0	0.5	1.0	3.0	2.0	2.5	5.5	4.5	5.0	13.0	12.0	12.5
10	1.0	0.5	1.0	2.0	1.5	2.0	7.0	5.0	6.0	13.5	12.5	13.0
11	1.0	1.0	1.0	3.0	2.0	2.5	8.0	6.0	7.0	14.5	12.5	13.5
12	1.0	0.5	0.5	3.5	2.5	3.0	8.0	7.0	7.5	15.0	13.5	14.5
13	1.0	0.5	1.0	3.5	3.0	3.0	7.5	6.5	7.0	16.0	14.5	15.0
14	1.0	0.5	1.0	3.5	2.5	3.0	8.0	6.5	7.5	15.5	14.5	15.0
15	1.5	1.0	1.0	3.0	2.0	2.5	8.5	7.5	8.0	16.5	15.0	16.0
16	1.0	1.0	1.0	3.5	2.0	3.0	9.0	7.5	8.0	17.0	15.5	16.5
17	1.5	1.0	1.0	5.0	3.0	4.0	9.5	8.0	9.0	17.5	16.0	17.0
18	2.0	1.0	1.5	6.0	4.5	5.0	9.5	9.0	9.0	18.0	16.5	17.5
19	2.5	2.0	2.0	6.0	5.0	5.5	9.0	8.5	8.5	19.5	17.5	18.5
20	2.5	2.0	2.5	6.5	4.0	5.5	9.0	8.0	8.5	20.5	19.0	19.5
21	3.0	2.5	2.5	4.0	3.0	3.5	7.5	7.0	7.5	21.0	20.0	20.5
22	3.0	2.5	2.5	3.5	2.5	3.0	7.0	6.5	7.0	20.5	20.0	20.0
23	3.0	2.5	2.5	3.5	2.5	3.0	7.5	6.5	7.0	21.5	20.0	20.5
24	3.0	3.0	3.0	3.5	3.5	3.5	8.0	7.5	7.5	22.5	21.0	21.5
25	3.0	2.0	2.5	4.0	3.0	3.5	9.0	8.0	8.5	21.5	20.5	21.0
26	2.5	2.0	2.5	4.0	3.5	4.0	9.0	8.5	9.0	20.5	19.5	20.0
27	3.0	2.0	2.5	3.5	2.5	3.0	9.0	8.0	8.5	21.5	20.0	20.5
28	3.0	2.5	2.5	3.5	2.0	3.0	9.0	8.0	8.5	22.0	20.0	20.5
29	---	---	---	3.0	3.0	3.0	9.5	8.0	8.5	23.0	20.5	22.0
30	---	---	---	3.5	3.0	3.0	10.0	9.0	9.5	22.0	21.5	21.5
31	---	---	---	4.0	3.0	3.5	---	---	---	22.0	21.0	21.5
MONTH	3.0	0.5	1.5	6.5	1.5	3.0	10.0	3.0	7.0	23.0	9.5	16.0
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	21.0	21.5	25.0	23.5	24.5	28.5	27.0	28.0	20.5	20.0	20.0
2	22.5	20.5	21.5	25.5	24.5	25.0	30.0	28.0	29.0	20.5	20.0	20.5
3	21.5	21.0	21.5	27.0	25.5	26.0	32.0	29.0	30.5	20.5	20.0	20.5
4	21.5	20.5	21.0	27.0	25.5	26.5	30.5	28.0	29.0	21.0	20.0	20.5
5	20.0	19.0	19.5	27.0	26.0	26.5	29.0	27.5	28.5	21.5	20.0	21.0
6	19.0	17.5	18.0	27.5	26.0	27.0	28.5	26.0	27.5	21.0	20.5	21.0
7	18.5	16.5	17.5	28.0	27.0	27.5	25.5	23.5	24.5	21.0	20.5	20.5
8	17.0	16.5	17.0	28.0	27.0	27.5	23.5	22.0	23.0	21.5	21.0	21.0
9	17.5	16.5	17.0	27.5	27.0	27.0	22.0	20.5	21.0	21.5	20.5	21.0
10	18.0	16.5	17.0	28.0	27.0	27.5	24.0	20.5	22.0	20.5	20.0	20.5
11	19.0	17.0	18.0	27.5	27.0	27.5	24.0	23.0	23.5	20.5	19.5	20.0
12	18.5	18.0	18.0	27.5	26.5	27.0	24.5	23.0	24.0	20.0	19.5	20.0
13	18.0	16.5	17.5	26.5	25.5	26.0	25.0	24.0	24.5	20.0	19.5	19.5
14	17.0	16.5	16.5	25.5	24.5	25.0	25.5	24.5	25.0	19.5	18.5	19.0
15	18.0	17.0	17.5	24.5	24.0	24.0	24.5	24.5	24.5	18.5	17.5	18.0
16	18.0	17.5	18.0	24.5	23.0	24.0	25.5	23.0	24.5	18.0	17.5	18.0
17	19.0	17.5	18.0	25.5	24.5	25.0	---	---	---	19.0	17.5	18.0
18	20.0	18.5	19.5	26.5	25.0	26.0	---	---	---	18.5	17.5	18.0
19	21.5	19.5	20.5	26.5	25.5	26.0	---	---	---	18.0	18.0	18.0
20	22.0	21.0	21.5	26.5	25.5	26.0	---	---	---	18.5	18.0	18.5
21	22.5	20.5	21.5	27.0	25.0	26.0	---	---	---	19.0	18.5	19.0
22	23.5	21.0	22.5	28.5	26.5	27.5	---	---	---	19.5	18.5	19.0
23	24.5	22.0	23.5	27.0	26.5	27.0	---	---	---	19.0	18.5	19.0
24	26.0	24.0	25.0	27.0	26.5	27.0	---	---	---	18.5	16.5	17.5
25	26.0	24.5	25.5	27.0	26.5	26.5	---	---	---	16.5	15.0	15.5
26	25.0	24.5	25.0	29.5	25.5	26.5	---	---	---	15.0	15.0	15.0
27	25.5	25.0	25.0	26.0	25.0	25.5	---	---	---	15.5	15.0	15.0
28	25.0	24.5	25.0	26.0	24.5	25.5	---	---	---	15.5	15.0	15.0
29	25.5	24.5	25.0	26.5	25.0	26.0	24.0	23.0	23.5	15.0	14.5	14.5
30	25.0	24.5	24.5	26.5	25.0	26.0	23.5	21.0	22.5	15.0	14.5	14.5
31	---	---	---	27.0	26.0	26.5	21.5	20.5	21.0	---	---	---
MONTH	26.0	16.5	20.5	29.5	23.0	26.0	---	---	---	21.5	14.5	18.5
YEAR	32.0	0.5	11.5									

01185100 FALL RIVER BELOW OTIS RESERVOIR, NEAR OTIS, MASS.

LOCATION.--Lat 42°09'42", long 73°03'48", Berkshire County, on right bank 0.4 mi (0.6 km) downstream from Otis Reservoir, 0.5 mi (0.8 km) upstream from mouth, and 2.6 mi (4.2 km) southeast of Otis.

DRAINAGE AREA.--16.5 mi² (42.7 km²).

PERIOD OF RECORD.--Discharge: August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,260 ft (384 m) from topographic map.

REMARKS.--Records good. Flow regulated by Otis Reservoir (see p. 245).

AVERAGE DISCHARGE.--6 years, 39.1 ft³/s (1.107 m³/s).

EXTREMES.--Period of record: Maximum discharge, 422 ft³/s (12.0 m³/s) July 2, 1972 (gage height, 5.41 ft or 1.649 m); minimum daily, 0.68 ft³/s (0.019 m³/s) June 20, 1975.

Current year: Maximum discharge, 322 ft³/s (9.12 m³/s) Sept. 27 (gage height, 5.01 ft or 1.527 m); minimum daily, 0.85 ft³/s (0.024 m³/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	136	42	24	35	36	68	2.9	1.8	.97	11	3.0
2	129	135	44	24	35	18	37	2.9	1.7	1.5	10	2.9
3	44	134	46	16	35	5.5	83	3.0	1.7	1.7	9.2	2.7
4	3.9	134	46	8.9	35	5.1	210	3.4	1.8	1.3	8.7	2.5
5	3.9	134	66	8.9	34	4.9	160	4.2	1.9	1.3	8.1	2.5
6	3.7	134	86	8.9	33	4.7	136	3.9	3.6	1.2	6.9	2.4
7	3.7	132	59	8.9	34	4.6	155	3.7	3.4	.85	29	2.3
8	3.9	131	59	8.9	34	4.4	157	3.3	3.4	.89	183	2.2
9	3.9	129	91	22	33	4.4	176	2.4	4.2	1.1	151	2.3
10	3.9	128	111	44	33	4.4	74	2.3	4.6	1.2	4.7	2.1
11	3.9	127	111	58	33	4.4	24	2.1	3.2	.97	4.9	1.9
12	3.9	127	111	60	33	4.2	23	2.7	3.7	1.2	13	1.9
13	3.9	127	110	61	33	4.2	23	5.5	5.5	3.4	41	2.1
14	3.9	127	77	61	33	4.2	23	6.2	4.6	.97	61	2.0
15	77	127	46	77	33	4.0	23	6.0	3.7	131	21	1.9
16	114	125	46	92	22	4.0	22	4.0	3.3	5.7	2.9	1.8
17	115	124	46	92	13	3.9	13	3.7	2.9	4.7	3.2	1.7
18	150	124	46	91	13	3.9	4.2	4.0	2.5	4.6	2.9	1.9
19	225	123	69	61	13	12	4.0	3.6	1.9	3.9	2.7	2.2
20	191	122	89	36	13	79	4.0	3.2	1.4	30	2.5	2.0
21	113	122	74	35	12	33	4.0	3.2	2.4	242	2.3	2.1
22	112	122	40	35	12	7.6	3.9	3.0	3.3	122	2.2	2.1
23	112	122	24	35	7.9	6.6	3.7	2.7	2.8	6.6	2.2	2.9
24	111	60	24	35	24	66	3.6	2.2	2.3	8.1	2.6	141
25	110	7.9	24	35	37	146	3.6	1.8	1.9	17	2.7	308
26	179	11	24	35	37	147	3.6	1.7	1.5	19	2.7	310
27	197	11	24	35	37	146	3.4	1.7	1.1	19	2.3	320
28	123	11	24	35	37	146	3.3	1.7	1.1	18	2.0	310
29	134	29	24	35	---	143	3.0	1.5	1.4	15	6.9	211
30	134	43	24	35	---	146	3.0	1.6	1.2	14	157	131
31	136	---	24	35	---	100	---	1.6	---	12	52	---
TOTAL	2679.5	3118.9	1731	1248.5	783.9	1303.0	1454.3	95.7	79.8	787.18	811.6	1782.4
MEAN	86.4	104	55.8	40.3	28.0	42.0	48.5	3.09	2.66	25.4	26.2	59.4
MAX	225	136	111	92	37	147	210	6.2	5.5	242	183	320
MIN	3.7	7.9	24	8.9	7.9	3.9	3.0	1.5	1.1	.85	2.0	1.7
CAL YR 1974	TOTAL	12621.97	MEAN	34.6	MAX	225	MIN	.97				
WTR YR 1975	TOTAL	15875.78	MEAN	43.5	MAX	320	MIN	.85				

CONNECTICUT RIVER BASIN

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MASS.

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, on left bank 5 ft (1.5 m) downstream from highway bridge, 0.3 mi (0.5 km) downstream from Clam River, 1 mi (1.6 km) south of New Boston, and at mile 65.0 (104.6 km).

DRAINAGE AREA.--92.0 mi² (238.3 km²).

PERIOD OF RECORD.--Discharge: May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft (231.102 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 641: 1924(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1914.

REMARKS.--Records good. Flow regulated by Otis Reservoir 7.0 mi (11.3 km) upstream on Fall River (see p. 245). High flow slightly affected by retarding reservoirs since 1966.

AVERAGE DISCHARGE.--62 years, 180 ft³/s (5.098 m³/s), 26.57 in/yr (675 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 34,300 ft³/s (971 m³/s) Aug. 19, 1955 (gage height, 14.06 ft or 4.285 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 20, 21, 1957.
Current year: Maximum discharge, 3,160 ft³/s (89.5 m³/s) Sept. 27 (gage height, 7.32 ft or 2.231 m); minimum daily, 29 ft³/s (0.82 m³/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	293	142	124	192	287	341	128	78	30	71	103
2	230	251	259	119	166	230	318	144	86	29	65	82
3	146	222	321	119	154	183	913	165	77	30	59	72
4	80	242	241	110	141	160	1090	192	107	30	54	61
5	71	314	222	96	148	148	734	357	118	31	54	52
6	65	359	216	85	160	135	568	257	345	31	51	50
7	69	300	184	105	153	127	491	274	287	31	99	49
8	109	260	559	110	144	158	437	210	205	30	478	43
9	82	236	854	140	135	137	415	175	150	34	573	47
10	51	219	589	180	130	127	318	182	117	38	245	42
11	51	208	451	267	120	126	242	236	94	31	153	39
12	48	208	379	437	115	116	236	248	277	31	128	47
13	47	378	346	478	110	138	224	491	671	186	128	74
14	46	340	306	376	110	141	210	459	437	668	131	58
15	91	321	239	290	105	125	219	311	267	677	91	49
16	229	277	221	280	105	123	227	264	192	285	66	42
17	304	242	295	240	100	131	245	221	154	165	67	39
18	283	227	264	230	100	150	254	182	120	126	64	37
19	328	216	250	318	102	242	297	156	98	100	55	46
20	318	227	248	230	104	1770	329	134	81	217	49	64
21	277	496	224	192	98	1010	280	117	68	868	48	60
22	263	446	185	190	98	676	224	104	66	539	48	52
23	251	336	156	170	110	563	195	94	59	241	41	73
24	233	248	152	168	529	588	219	85	51	167	42	474
25	192	170	155	187	763	778	248	73	45	262	44	1260
26	264	159	143	380	581	739	213	68	39	210	42	1500
27	257	144	141	277	433	563	190	76	37	148	41	2080
28	170	137	141	227	342	477	172	80	35	117	38	1100
29	182	136	137	219	---	432	154	78	36	101	37	742
30	180	147	129	267	---	477	140	77	34	88	380	527
31	374	---	128	219	---	432	---	86	---	79	231	---
TOTAL	5561	7759	8277	6830	5548	11489	10143	5724	4431	5620	3673	8964
MEAN	179	259	267	220	198	371	338	185	148	181	118	299
MAX	374	496	854	478	763	1770	1090	491	671	868	573	2080
MIN	46	136	128	85	98	116	140	68	34	29	37	37
MEAN†	111	195	265	221	210	408	353	223	168	194	114	293
CFSM†	1.21	2.12	2.88	2.40	2.28	4.43	3.84	2.42	1.83	2.11	1.24	3.18
IN.†	1.39	2.36	3.32	2.78	2.37	5.11	4.28	2.79	2.04	2.43	1.43	3.55
CAL YR 1974 TOTAL	72022											
WTR YR 1975 TOTAL	84019											
MEAN 197												
MAX 2080												
MIN 29												
MEAN† 197												
MEAN† 229												
CFSM† 2.14												
CFSM† 2.49												
IN† 29.14												
IN† 33.87												

† Adjusted for change in contents in Otis Reservoir.

Reservoirs in Connecticut River basin

- 01127850; 01128000. FIRST CONNECTICUT AND SECOND CONNECTICUT LAKES on Connecticut River are operated as a unit for storage of water for power and are used for recreation. The downstream order and usable capacity of each are as follows: Second Lake, 12 mi (19 km) northeast of Pittsburg, N.H., 506,000,000 ft³ (14,300,000 m³); First Lake, 5.6 mi (9.0 km) northeast of Pittsburg, N.H., 3,330,000,000 ft³ (94,300,000 m³). Records furnished by New England Power Co.
01129000. LAKE FRANCIS on Connecticut River at Pittsburg, N.H., completed in March 1940, used for storage of water for power and for recreation, has usable capacity of 4,326,000,000 ft³ (122,500,000 m³). Records furnished by New Hampshire Water Resources Board.
- 01132000; 01132500. MOORE AND COMERFORD RESERVOIRS on Connecticut River are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Moore Reservoir, 4.5 mi (7.2 km) northwest of Littleton, N.H., filled in April 1956, 4,970,000,000 ft³ (141,000,000 m³); Comerford Reservoir, 5 mi (8 km) northeast of Monroe, N.H., completed in 1930, 1,279,000,000 ft³ (36,220,000 m³). Records furnished by New England Power Co.
01141000. UNION VILLAGE RESERVOIR on Ompompanoosuc River, 0.3 mi (0.5 km) north of Union Village, Vt., completed in 1949 for flood control, has usable capacity of 1,660,000,000 ft³ (47,000,000 m³). Records furnished by Corps of Engineers.
- 01148000; 01150000. LAKES AND PONDS IN MASCOMA RIVER BASIN are operated as a unit for storage of water for power and are used for recreation. The reservoirs and usable capacity of each are as follows: 01148000 Goose Pond, 5.2 mi (8.4 km) northeast of Mascoma, N.H., 509,000,000 ft³ (14,400,000 m³); Grafton Pond, 8.5 mi (13.7 km) southeast of Mascoma, 144,000,000 ft³ (4,050,000 m³); Crystal Lake, 5.8 mi (9.3 km) southeast of Mascoma, 75,000,000 ft³ (2,100,000 m³); 01150000 Mascoma Lake at Mascoma, 337,000,000 ft³ (9,540,000 m³); total usable capacity of the four reservoirs, 1,060,000,000 ft³ (30,000,000 m³). Records furnished by New Hampshire Water Resources Board.
01151400. NORTH HARTLAND RESERVOIR on Ottauquechee River at North Hartland, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 3,110,000,000 ft³ (88,100,000 m³). Records furnished by Corps of Engineers.
01152000. SUNAPEE LAKE on Sugar River at Sunapee, N.H., used for recreation and storage of water for power, has usable capacity of 862,000,000 ft³ (24,400,000 m³). Records collected by Geological Survey.
01152900. NORTH SPRINGFIELD RESERVOIR on Black River at North Springfield, Vt., completed in 1960, used for flood control and recreation, has usable capacity of 2,230,000,000 ft³ (63,200,000 m³). Records furnished by Corps of Engineers.
01155400. BALL MOUNTAIN RESERVOIR on West River, 2 mi (3.2 km) north of Jamaica, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 2,380,000,000 ft³ (67,400,000 m³). Records furnished by Corps of Engineers.
01155900. TOWNSHEND RESERVOIR on West River, 1.8 mi (2.9 km) northwest of Townshend, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 1,460,000,000 ft³ (41,300,000 m³). Records furnished by Corps of Engineers.
01157500. SURRY MOUNTAIN LAKE on Ashuelot River, 4.5 mi (7.2 km) north of Keene, N.H., completed in 1942, used for flood control and recreation, has usable capacity of 1,420,000,000 ft³ (40,200,000 m³). Records furnished by Corps of Engineers.
01158550. OTTER BROOK LAKE on Otter Brook, 2.5 mi (4.0 km) northeast of Keene, N.H., completed in 1958, used for flood control and recreation, has usable capacity of 798,000,000 ft³ (22,600,000 m³). Records furnished by Corps of Engineers.
01163500. BIRCH HILL RESERVOIR on Millers River, 1 mi (1.6 km) east of South Royalston, Mass., completed in 1941 for flood control, has usable capacity of 2,180,000,000 ft³ (61,700,000 m³). Records furnished by Corps of Engineers.
01164500. TULLY RESERVOIR on East Branch Tully River, 3.5 mi (5.6 km) north of Athol, Mass., completed in 1948 for flood control, has usable capacity of 958,000,000 ft³ (27,100,000 m³). Records furnished by Corps of Engineers.
- 01167490; 01168000. SOMERSET AND HARRINAN RESERVOIRS in Deerfield River basin are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Somerset Reservoir on East Branch Deerfield River, 2.5 mi (4.0 km) northeast of Somerset, Vt., completed in 1913, 2,500,000,000 ft³ (71,000,000 m³); Harriman Reservoir on Deerfield River at Davis Bridge, Vt., completed in 1924, 5,060,000,000 ft³ (143,000,000 m³). Records furnished by New England Power Co.
01172400. BARRE FALLS RESERVOIR on Ware River, 4 mi (6 km) east of Barre, Mass., completed in 1958 for flood control, has usable capacity of 1,050,000,000 ft³ (29,700,000 m³). Records furnished by Corps of Engineers.
01175000. QUABBIN RESERVOIR on Swift River, 3.2 mi (5.1 km) east of Belchertown, Mass., completed in August 1939 for storage of water for municipal supply, has usable capacity of 53,800,000,000 ft³ (1,520,000,000 m³). Records furnished by Water Division, Metropolitan District Commission.
01176410. CONANT BROOK RESERVOIR in Chicopee River basin, 1.5 mi (2.4 km) southeast of South Monson, Mass., completed in September 1966 for flood control, has usable capacity of 163,000,000 ft³ (4,620,000 m³). Records furnished by Corps of Engineers.
01176500. LUDLOW RESERVOIR in Chicopee River basin, 3.2 mi (5.1 km) northwest of Three Rivers, Mass., completed in 1875 for storage of water for municipal supply, has usable capacity of 201,000,000 ft³ (5,690,000 m³). Records furnished by Board of Water Commissioners, Springfield, Mass.
01179000. KNIGHTVILLE RESERVOIR on Westfield River, 4 mi (6 km) north of Huntington, Mass., completed in 1941 for flood control, has usable capacity of 2,130,000,000 ft³ (60,300,000 m³). Records furnished by Corps of Engineers.

CONNECTICUT RIVER BASIN

Reservoirs in Connecticut River basin--Continued

01180450. LITTLEVILLE LAKE on Middle Branch Westfield River, 2 mi (3 km) north of Huntington, Mass., completed in 1965, used for flood control, water supply, and recreation, has usable capacity of 1,410,000,000 ft³ (39,900,000 m³). Records furnished by Corps of Engineers.

01181900; 01182500. BORDEN BROOK AND COBBLE MOUNTAIN RESERVOIRS in Westfield Little River basin are operated as a unit for storage of water for municipal supply and for hydroelectric power development. The downstream order and usable capacity of each are as follows: Borden Brook Reservoir on Borden Brook, 3.5 mi (5.6 km) south of Blandford, Mass., completed in 1909, 344,000,000 ft³ (9,740,000 m³); Cobble Mountain Reservoir on Westfield Little River, 6.5 mi (10.5 km) west of Westfield, Mass., completed in 1931, 3,050,000,000 ft³ (86,400,000 m³). Records furnished by Board of Water Commissioners, Springfield, Mass.

01185000. OTIS RESERVOIR in Farmington River basin, 3 mi (5 km) southeast of Otis, Mass., completed in 1865, used for storage of water for power and for recreation, has usable capacity of 780,000,000 ft³ (22,000,000 m³). Records furnished by Massachusetts Department of Natural Resources, Division of Forests and Parks.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	First and Second Connecticut Lakes	Lake Francis	Moore and Comerford Reservoirs	Union Village Reservoir	Lakes and Ponds in Mascoma River basin	North Hartland Reservoir
Sept. 30, 1974.....	2,785.1	3,643.8	5,636.5	2.8	959.4	124.0
Oct. 31.....	2,448.6	3,390.7	5,528.9	1.5	665.9	122.0
Nov. 30.....	2,606.2	3,431.2	5,679.1	12.8	719.6	24.8
Dec. 31.....	2,225.1	3,011.1	5,529.8	16.2	705.9	28.0
Jan. 31, 1975.....	1,554.8	2,311.6	5,032.4	15.2	663.3	26.4
Feb. 28.....	902.5	1,141.7	4,070.9	14.5	654.8	25.3
Mar. 31.....	259.8	808.0	1,350.6	13.0	760.7	27.5
Apr. 30.....	936.8	1,384.0	3,009.1	8.5	966.6	42.8
May 31.....	2,957.7	2,903.3	5,869.6	3.1	1,091.8	127.0
June 30.....	3,314.6	3,171.5	5,292.6	1.5	1,087.9	131.0
July 31.....	3,425.8	3,159.6	5,589.2	1.6	1,016.6	119.0
Aug. 31.....	3,249.5	3,545.1	5,315.4	1.4	983.4	125.0
Sept. 30.....	3,186.0	4,065.2	5,539.1	2.5	977.9	107.3
	Sunapee Lake	North Springfield Reservoir	Ball Mountain Reservoir	Townshend Reservoir	Surry Mountain Lake	Otter Brook Lake
Sept. 30, 1974.....	364	34.9	176.8	42.9	65.7	34.0
Oct. 31.....	248	24.7	6.1	35.8	64.5	33.4
Nov. 30.....	296	27.6	4.9	36.9	76.9	36.5
Dec. 31.....	367	32.0	10.4	36.9	84.7	38.2
Jan. 31, 1975.....	413	32.7	32.7	41.1	101.1	37.9
Feb. 28.....	350	25.4	48.1	38.3	88.8	36.5
Mar. 31.....	304	26.2	43.3	39.4	84.7	35.8
Apr. 30.....	586	30.5	117.3	43.6	86.0	35.4
May 31.....	598	26.2	137.4	37.2	58.6	33.4
June 30.....	612	24.7	119.4	34.4	57.4	33.0
July 31.....	585	23.3	89.6	34.1	58.6	33.4
Aug. 31.....	510	29.1	122.0	39.4	66.9	35.4
Sept. 30.....	502	26.9	93.8	40.0	124.0	43.2
	Birch Hill Reservoir	Tully Reservoir	Somerset and Harriman Reservoirs	Barre Falls Reservoir	Quabbin Reservoir†	Conant Brook Reservoir
Sept. 30, 1974.....	5.1	62.9	5,520.4	33.8	47,533	0.2
Oct. 31.....	2.7	12.3	4,209.8	3.4	47,192	.1
Nov. 30.....	3.3	21.5	3,995.7	4.4	46,862	.1
Dec. 31.....	3.9	24.2	3,664.3	25.3	47,403	.1
Jan. 31, 1975.....	7.0	23.6	3,265.8	34.7	48,365	.1
Feb. 28.....	15.0	26.0	2,884.6	27.6	48,676	.1
Mar. 31.....	15.0	29.0	3,142.2	5.7	50,621	.1
Apr. 30.....	5.4	62.9	5,080.8	3.1	52,188	.1
May 31.....	2.2	57.4	6,683.1	2.4	52,238	.1
June 30.....	1.3	57.4	6,644.7	2.2	51,373	.1
July 31.....	2.0	60.7	6,467.2	2.2	51,072	.1
Aug. 31.....	6.0	69.2	6,215.4	2.9	49,689	.1
Sept. 30.....	239.3	159.2	6,178.7	109.5	49,869	.3
	Ludlow Reservoir	Knightville Reservoir	Littleville Lake	Borden Brook and Cobble Mountain Reservoirs	Otis Reservoir	
Sept. 30, 1974.....	200.5	0.8	430.2	2,398.9	703.3	
Oct. 31.....	181.1	0.3	422.4	2,343.0	520.8	
Nov. 30.....	181.1	0.4	423.7	2,433.8	355.1	
Dec. 31.....	181.1	15.0	423.7	2,602.6	349.0	
Jan. 31, 1975.....	181.1	19.4	428.9	2,500.2	352.0	
Feb. 28.....	183.0	20.9	434.1	2,550.7	379.7	
Mar. 31.....	181.1	154.4	435.4	2,784.7	478.5	
Apr. 30.....	179.4	0.9	427.6	3,011.7	517.2	
May 31.....	175.8	0.8	421.1	3,067.3	619.5	
June 30.....	168.6	0.6	418.5	2,923.7	672.7	
July 31.....	175.8	0.2	418.5	2,990.3	707.2	
Aug. 31.....	168.6	1.2	427.6	2,785.8	695.7	
Sept. 30.....	181.1	100.5	479.4	2,892.8	680.3	

† Affected by diversion from Ware River and diversion to Wachusett Reservoir and Chicopee Valley aqueduct.

01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSTVILLE, MASS.

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, on right bank 40 ft (12 m) downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi (1.9 km) upstream from Unkamet Brook, and 2 mi (3 km) northeast of Pittsfield.

DRAINAGE AREA.--57.1 mi² (147.9 km²).

PERIOD OF RECORD.--Discharge: March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

Chemical analyses: Water years 1963-65 (partial-record station).

Water temperatures: Water years 1963-65 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft (302.816 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 851: 1936(M).

REMARKS.--Records good. Flow regulated by powerplants above station and, since 1949, by Cleveland Brook Reservoir (usable capacity, 214,000,000 ft³ or 6,060,000 m³/s) 5.4 mi (8.7 km) upstream; regulation greater prior to 1955. Diversion above station from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950; see table below for figures of diversion.

AVERAGE DISCHARGE.--39 years, 113 ft³/s (3.200 m³/s), 26.81 in/yr (682 mm/yr), adjusted for diversion.

EXTREMES.--Period of record: Maximum discharge, 6,400 ft³/s (181 m³/s) Sept. 21, 1938 (gage height, 10.80 ft or 3.292 m), from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of computation of peak flow over dam; minimum daily, 4.4 ft³/s (0.12 m³/s) Aug. 15, 1936.

Maximum discharge since at least 1755, that of Sept. 21, 1938.

Current year: Peak discharges above base of 1,150 ft³/s (32.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1745	1,390	39.4	Aug. 8	1730	1,170	33.1
June 13	0730	*2,440	69.1	Sept. 27	0530	1,230	34.8
							4.47 1.362
							4.53 1.381

Minimum daily discharge, 26 ft³/s (0.74 m³/s) July 7-9, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	56	67	63	115	168	204	113	60	40	37	75
2	85	52	103	60	83	133	202	120	66	36	34	51
3	78	47	144	53	74	119	449	184	72	34	30	48
4	77	93	127	63	66	105	630	169	224	32	34	44
5	73	157	97	52	69	103	395	284	177	29	49	46
6	68	178	82	50	75	97	280	202	394	27	40	53
7	67	145	73	58	73	95	221	146	305	26	77	56
8	66	105	253	59	67	116	193	117	190	26	713	51
9	63	88	526	67	66	99	178	94	137	26	559	63
10	60	77	294	72	61	91	178	83	106	27	251	59
11	58	73	187	118	63	92	195	82	68	27	141	54
12	54	74	151	265	62	85	202	139	202	26	180	80
13	52	201	151	224	62	89	195	531	1330	144	126	94
14	52	200	149	154	59	92	185	287	568	197	99	65
15	52	144	131	114	58	86	218	159	268	165	83	55
16	129	103	114	96	59	82	246	134	187	127	77	51
17	241	84	130	77	59	92	321	118	164	67	69	49
18	156	79	139	68	61	107	375	95	129	61	65	48
19	92	79	119	111	69	143	457	85	109	45	54	58
20	70	110	108	102	74	999	468	77	97	57	47	116
21	64	386	101	77	71	725	312	69	73	151	44	117
22	61	322	98	79	67	390	225	68	62	155	45	75
23	60	190	91	69	75	289	173	76	58	79	40	85
24	59	144	84	68	299	289	206	62	48	53	42	172
25	61	151	85	81	503	389	245	51	43	245	47	568
26	63	143	76	180	385	432	244	47	43	190	46	605
27	58	102	75	156	285	258	220	49	40	110	41	941
28	56	94	80	131	215	215	176	47	39	80	36	452
29	56	92	73	125	---	196	141	41	42	69	35	264
30	50	84	73	179	---	237	127	43	48	49	295	191
31	53	---	69	153	---	244	---	58	---	41	178	---
TOTAL	2347	3853	4050	3224	3275	6657	7861	3830	5349	2441	3614	4686
MEAN	75.7	128	131	104	117	215	262	124	178	78.7	117	156
MAX	241	386	526	265	503	999	630	531	1330	245	713	941
MIN	50	47	67	50	58	82	127	41	39	26	30	44
(†)	13.7	10.4	6.59	8.23	12.6	10.8	10.5	12.7	9.25	15.1	12.5	13.1
CAL YR 1974	TOTAL	43847	MEAN 120	MAX 700	MIN 19	MEAN† 133	CFSM† 2.33	INT† 31.64				
WTR YR 1975	TOTAL	51187	MEAN 140	MAX 1330	MIN 26	MEAN† 152	CFSM† 2.66	INT† 36.03				

† Diversion, in cubic feet per second, from Cleveland Brook Reservoir for municipal supply of Pittsfield; records furnished by city of Pittsfield.

‡ Adjusted for diversion.

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MASS.

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mi (0.8 km) upstream from Williams River and 2 mi (3 km) north of Great Barrington.

DRAINAGE AREA.--280 mi² (725 km²).

PERIOD OF RECORD.--Discharge: May 1913 to current year.

Chemical analyses: Water years 1957-59, 1963-64, 1971 (partial-record station).

Water temperatures: Water years 1957-59, 1963-64, 1971 (partial-record station).

Sediment records: Water year 1971 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft (208.191 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

REVISIONS (WATER YEARS).--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M).

REMARKS.--Records good. Regulation at low flow by powerplants above station. High flow slightly affected by retarding reservoir since 1973.

AVERAGE DISCHARGE.--62 years, 521 ft³/s (14.75 m³/s), 25.27 in/yr (642 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 1, 1949 (gage height, 12.08 ft or 3.682 m), from rating curve extended above 5,300 ft³/s (150 m³/s) on basis of computations of flow over dams at gage heights 11.72 and 12.08 ft (3.572 and 3.682 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 18, 1914.

Current year: Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 21	2115	2,480	70.2	6.02	1.835	Aug. 9	2345	2,440	69.1	5.96	1.817
June 14	1615	*2,730	77.3	*6.37	1.942	Sept. 27	2115	2,620	74.2	6.21	1.893

Minimum daily discharge, 157 ft³/s (4.45 m³/s) July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	356	430	394	654	1190	1150	623	365	242	332	661
2	530	342	524	379	565	942	1010	573	414	213	296	411
3	464	337	853	347	520	740	1240	554	399	197	259	344
4	404	366	775	333	480	714	2070	675	948	145	240	305
5	337	601	610	327	460	584	2200	486	1010	140	244	244
6	314	810	540	293	447	648	1490	1170	1220	174	300	283
7	337	754	504	299	440	604	1540	1740	1440	169	409	297
8	254	630	741	297	410	694	1300	1350	1390	163	1310	274
9	276	493	1630	350	396	645	1160	477	1050	162	2350	245
10	276	426	1710	454	350	593	1100	630	794	169	2270	263
11	297	384	1370	549	365	572	1070	545	659	163	1720	215
12	305	371	1010	1270	350	555	1070	547	853	157	1140	244
13	297	464	897	1320	350	557	1030	1600	2230	390	1000	333
14	240	683	849	1070	330	570	946	1410	2690	1310	421	314
15	240	664	793	420	335	536	494	1710	2340	1400	652	261
16	366	540	699	647	322	504	918	1420	1440	1510	533	244
17	450	480	646	593	323	543	1000	1120	1390	1010	444	233
18	794	420	725	500	326	574	1140	913	1040	692	340	225
19	547	420	642	672	341	629	1300	762	838	539	340	231
20	432	480	541	699	371	1490	1450	653	749	641	322	300
21	366	945	533	500	355	2340	1400	526	602	1490	292	353
22	342	1520	505	519	340	2300	1100	540	483	1440	273	343
23	324	1350	471	460	385	1440	477	537	417	1100	264	329
24	323	994	462	437	934	1590	460	542	361	670	253	511
25	310	850	442	446	2070	1540	1020	435	325	951	266	1440
26	323	805	419	843	2220	1640	1030	371	290	1340	263	2030
27	314	696	393	927	1440	1540	949	353	279	1170	255	2440
28	249	544	426	732	1500	1310	864	367	262	435	273	2510
29	272	537	452	654	---	1130	774	326	250	609	337	2050
30	269	467	433	853	---	1140	706	301	246	451	440	1550
31	323	---	414	766	---	1290	---	348	---	372	935	---
TOTAL	11793	14472	21563	14876	17423	31942	35126	24449	27254	20714	19351	19613
MEAN	380	629	694	609	637	1032	1171	802	909	664	624	654
MAX	850	1520	1710	1320	2220	2340	2200	1410	2690	1400	2350	2510
MIN	254	337	393	293	322	508	706	301	246	157	240	215
CFSM	1.36	2.25	2.44	2.44	2.28	3.69	4.14	2.46	3.25	2.39	2.23	2.34
IN.	1.57	2.51	2.46	2.51	2.37	4.25	4.67	3.30	3.62	2.75	2.57	2.61

CAL YR 1974 TOTAL 232089 MEAN 536 MAX 2210 MIN 113 CFSM 2.27 IN 30.43
WTR YR 1975 TOTAL 267424 MEAN 734 MAX 2690 MIN 157 CFSM 2.62 IN 35.58

01331500 HOOSIC RIVER AT ADAMS, MASS.

LOCATION.--Lat 42°36'40", long 73°07'28", Berkshire County, on left bank at Adams, 500 ft (150 m) downstream from Dry Brook and 0.4 mi (0.6 km) upstream from Pecks Brook. Prior to May 30, 1974, at site 500 ft (150 m) upstream.

DRAINAGE AREA.--46.3 mi² (119.9 km²).

PERIOD OF RECORD.--Discharge: October 1931 to current year.

Chemical analyses: Water years 1967-69 (partial-record station).

Water temperatures: Water years 1967-69 (partial-record station).

Sediment records: Water years 1967-68 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 828.01 ft (252.377 m) above mean sea level; prior to Oct. 1, 1964, datum was 9.00 ft (2.743 m) higher and Oct. 1, 1964, to May 29, 1974, 8.00 ft (2.438 m) higher, at site 500 ft (150 m) upstream.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1973: 1971-72.

REMARKS.--Records good. Diversion above station for municipal supply of Adams. Some diurnal fluctuation by mill above station prior to 1961. Flow regulated by Cheshire Reservoir 5.1 mi (8.2 km) upstream.

AVERAGE DISCHARGE.--44 years, 88.6 ft³/s (2.509 m³/s), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 5,080 ft³/s (144 m³/s) Sept. 21, 1938 (gage height, 9.25 ft or 2.819 m, site and datum then in use), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of computation of peak flow over dam; minimum daily, 8.0 ft³/s (0.23 m³/s) Aug. 31, Sept. 1, 1968.

Current year: Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 20	1245	913 25.9	7.14 2.176	Aug. 8	1015	*1,070 30.3	*7.29 2.222

Minimum discharge, 34 ft³/s (0.96 m³/s) July 10-13; minimum daily, 34 ft³/s (0.96 m³/s) July 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	59	75	62	107	137	166	154	117	51	67	90
2	54	57	94	60	94	124	169	165	108	46	62	86
3	51	54	108	52	89	117	400	172	123	45	57	93
4	51	70	89	55	79	126	427	163	325	45	52	87
5	72	150	75	52	84	124	249	189	227	44	71	72
6	75	200	73	48	87	122	219	144	461	40	54	55
7	74	130	71	52	87	121	186	91	282	39	143	60
8	72	110	239	52	86	140	175	77	200	39	753	56
9	70	96	306	60	85	124	164	70	165	42	385	53
10	69	87	182	66	82	117	164	67	143	37	211	52
11	68	83	146	115	72	113	169	67	135	34	178	50
12	67	80	140	218	71	113	167	105	267	34	214	61
13	67	170	137	126	70	112	160	327	608	261	168	68
14	66	130	112	94	66	110	152	178	357	285	137	55
15	57	130	102	92	66	96	162	140	239	243	113	49
16	106	110	95	82	66	79	166	133	203	165	94	48
17	137	95	99	77	66	84	189	137	178	124	92	48
18	68	92	97	69	66	94	213	126	162	99	69	47
19	52	90	92	93	70	143	414	114	140	85	60	68
20	49	120	91	86	73	710	352	105	113	96	54	117
21	44	379	103	77	71	375	223	96	94	229	52	84
22	42	203	103	83	71	222	205	91	87	172	51	73
23	46	132	98	82	75	194	211	124	85	113	51	79
24	57	120	80	81	281	224	339	82	81	108	51	137
25	57	127	79	92	488	343	340	74	71	428	54	393
26	57	132	71	191	268	316	263	72	57	189	54	326
27	57	111	69	129	179	218	212	71	51	135	52	413
28	57	92	71	108	146	193	175	73	49	108	46	235
29	57	89	71	126	---	187	164	64	49	92	45	182
30	56	81	71	182	---	211	157	64	63	81	298	189
31	57	---	67	121	---	186	---	75	---	73	130	---
TOTAL	1981	3579	3306	2883	3145	5575	6752	3610	5240	3582	3918	3426
MEAN	63.9	119	107	93.0	112	180	225	116	175	116	126	114
MAX	137	379	306	218	488	710	427	327	608	428	753	413
MIN	42	54	67	48	66	79	152	64	49	34	45	47
CAL YR 1974	TOTAL	36665	MEAN 100	MAX 556	MIN 20							
WTR YR 1975	TOTAL	46497	MEAN 129	MAX 753	MIN 34							

01332000 NORTH BRANCH HOOSIC RIVER AT NORTH ADAMS, MASS.

LOCATION.--Lat 42°42'08", long 73°05'37", Berkshire County, on left bank at North Adams, 0.4 mi (0.6 km) downstream from Hudson Brook, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--39.0 mi² (101.0 km²).

PERIOD OF RECORD.--Discharge: June 1931 to current year.

Chemical analyses: Water years 1967-69 (partial-record station).

Water temperatures: Water years 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Concrete control at present site. Datum of gage is 820.46 ft (250.076 m) above mean sea level. Prior to Sept. 23, 1938, at site 100 ft (30 m) upstream at same datum. July 9, 1959, to July 29, 1960, nonrecording gage at site 500 ft (150 m) upstream at datum about 4.6 ft (1.40 m) lower.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1933(M). WSP 801: 1928(N). WRD Mass., N.H., R.I., Vt., 1973: 1971.

REMARKS.--Records good except those for February, which are fair. Infrequent diurnal fluctuation at low flow by mill above station; more frequent fluctuation prior to 1948.

AVERAGE DISCHARGE.--44 years, 95.7 ft³/s (2.710 m³/s), 33.32 in/yr (846 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 8,950 ft³/s (253 m³/s) Sept. 21, 1938 (gage height, 12.05 ft or 3.673 m, from floodmarks), by computation of peak flow over dam; minimum, 1.7 ft³/s (0.048 m³/s) July 30, 1965; minimum daily, 3.1 ft³/s (0.088 m³/s) July 30, 1965; Flood in November 1927 reached a discharge of 9,980 ft³/s (283 m³/s), by computation of flow over dam.

Current year: Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 13	1430	2,260 64.0	9.03 2.752	Aug. 30	0700	*4,070 115	*10.24 3.121

Minimum discharge, 13 ft³/s (0.37 m³/s) July 8, 9; minimum daily, 14 ft³/s (0.40 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	59	78	48	101	119	113	373	58	26	28	134
2	143	53	87	45	84	104	108	379	53	20	24	101
3	113	48	96	37	73	94	290	379	51	19	20	87
4	98	41	80	46	56	83	341	362	225	28	20	72
5	85	167	65	39	76	76	197	408	134	19	68	58
6	76	285	67	33	80	78	149	290	425	16	34	68
7	67	146	62	43	68	76	129	230	280	15	205	70
8	61	113	253	41	62	84	113	193	181	14	948	53
9	56	96	408	51	59	74	105	153	126	48	330	53
10	53	87	191	57	56	68	103	134	98	63	146	44
11	48	78	134	96	54	72	110	116	78	29	103	39
12	45	74	115	215	52	65	116	115	197	23	98	98
13	44	213	107	130	51	70	110	500	626	896	70	98
14	42	160	99	98	50	74	110	247	396	593	58	70
15	45	132	89	79	49	67	132	167	197	512	47	56
16	101	110	79	79	48	61	153	185	143	239	40	48
17	149	98	89	67	50	67	243	144	163	140	39	45
18	91	89	80	60	48	74	325	123	126	98	39	44
19	74	87	73	96	49	91	736	110	118	74	31	58
20	67	118	69	64	50	722	673	96	85	94	28	110
21	59	587	65	55	46	500	402	80	67	126	25	74
22	54	316	63	70	46	257	315	72	54	49	28	56
23	53	190	59	62	59	221	368	65	47	65	25	91
24	50	150	58	67	239	226	714	56	39	58	35	108
25	51	164	59	68	547	310	781	48	33	189	44	414
26	54	159	48	251	309	346	593	48	29	94	56	348
27	48	124	50	120	181	193	414	41	25	65	45	403
28	45	110	55	97	136	156	275	40	23	53	30	217
29	42	103	49	103	---	143	275	33	30	50	25	149
30	41	88	49	171	---	149	341	31	50	39	1250	120
31	68	---	45	112	---	134	---	46	---	32	271	---
TOTAL	2201	4295	2921	2600	2779	4859	8884	5271	4158	3826	4210	3384
MEAN	71.0	143	94.2	83.9	99.3	157	296	170	139	123	136	113
MAX	178	587	408	251	547	722	781	500	626	896	1250	414
MIN	41	48	45	33	46	61	103	31	23	14	20	39
CFSM	1.82	3.67	2.42	2.15	2.55	4.03	7.59	4.36	3.56	3.15	3.49	2.90
IN.	2.10	4.10	2.79	2.48	2.65	4.63	8.47	5.03	3.97	3.65	4.02	3.23
CAL YR 1974	TOTAL	41262.6	MEAN 113	MAX 1290	MIN 7.3	CFSM 2.90	IN 39.36					
WTR YR 1975	TOTAL	49388.0	MEAN 135	MAX 1250	MIN 14	CFSM 3.46	IN 47.11					

01352500 HOOSIC RIVER NEAR WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, on left bank 1.0 mi (1.6 km) upstream from Green River and 1.2 mi (1.9 km) east of Williamstown.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--Discharge: July 1940 to current year.

Chemical analyses: Water years 1953-54, 1957-58, 1967-69 (partial-record station).

Water temperatures: Water years 1957-58, 1967-68 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

REMARKS.--Records poor October to January; fair thereafter. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream.

AVERAGE DISCHARGE.--35 years, 272 ft³/s (7.703 m³/s), 27.98 in/yr (711 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) Dec. 31, 1948 (gage height, 14.85 or 4.526 m), from rating curve extended above 4,300 ft³/s (122 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft³/s (0.16 m³/s) Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 ft³/s (0.71 m³/s) Sept. 2, 1968.

Current year: Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 13	1730	2,750 77.9	6.39 1.948	Aug. 30	0800	*3,980 113	*7.70 2.347
Aug. 8	1515	2,940 83.3	6.60 2.012				

Minimum discharge, 133 ft³/s (3.77 m³/s) July 8, 9; minimum daily, 136 ft³/s (3.85 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	237	336	271	275	332	377	640	271	174	170	288
2	263	233	377	267	254	292	363	660	258	162	158	250
3	242	225	377	250	258	280	857	660	350	158	151	250
4	221	284	350	250	245	275	980	640	629	170	151	229
5	229	404	336	242	233	275	560	700	426	151	263	209
6	225	516	336	229	237	267	477	490	1010	140	170	209
7	213	354	332	242	229	267	435	426	609	140	449	209
8	209	323	650	233	221	265	404	390	449	136	2100	189
9	205	310	817	267	217	265	381	359	377	177	968	197
10	201	306	530	271	210	267	381	336	332	197	453	181
11	197	292	449	372	205	271	408	319	301	155	359	174
12	197	288	426	580	200	267	404	363	550	140	408	242
13	193	477	413	395	197	275	386	862	1140	1210	310	250
14	193	408	390	323	195	271	386	521	761	962	271	205
15	197	381	363	292	193	258	417	426	482	817	242	189
16	292	341	354	292	189	250	440	449	413	453	217	181
17	381	328	372	275	189	258	545	408	431	332	217	177
18	263	332	354	275	189	275	639	359	381	275	201	185
19	233	323	345	288	205	306	1210	345	350	233	181	209
20	225	381	345	275	205	1600	1140	319	288	267	174	297
21	213	1090	341	270	197	1040	707	297	254	386	166	246
22	213	614	336	267	197	580	609	284	233	328	166	213
23	209	453	336	246	233	535	644	301	221	246	158	254
24	213	417	323	237	729	560	1100	263	209	217	170	301
25	225	440	323	280	1200	756	1200	242	201	718	181	773
26	225	426	306	516	660	756	950	237	189	368	181	696
27	221	381	284	332	444	506	720	233	181	275	177	823
28	213	359	288	284	368	449	580	233	170	242	162	500
29	213	354	284	332	---	426	540	217	185	213	158	395
30	217	345	284	440	---	472	620	221	213	201	1460	368
31	246	---	275	301	---	422	---	237	---	185	444	---
TOTAL	7101	11622	11632	9394	8374	13318	18860	12437	11864	9828	11036	8889
MEAN	229	387	375	303	299	430	629	401	395	317	356	296
MAX	381	1090	817	580	1200	1600	1210	862	1140	1210	2100	823
MIN	193	225	275	229	189	250	363	217	170	136	151	174
CFSM	1.73	2.93	2.84	2.30	2.27	3.26	4.77	3.04	2.99	2.40	2.70	2.24
IN.	2.00	3.28	3.28	2.65	2.36	3.75	5.32	3.50	3.34	2.77	3.11	2.51

CAL YR 1974	TOTAL	115202	MEAN 316	MAX 2070	MIN 63	CFSM 2.39	IN 32.47
WTR YR 1975	TOTAL	134355	MEAN 368	MAX 2100	MIN 136	CFSM 2.79	IN 37.86

01333000 GREEN RIVER AT WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, on left bank 0.1 mi (0.2 km) upstream from bridge on State Highway 2 at Williamstown and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--Discharge: September 1949 to current year.

Chemical analyses: Water years 1967-69 (partial-record station).

Water temperatures: Water years 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at times caused by mill above station.

AVERAGE DISCHARGE.--26 years, 81.5 ft³/s (2,308 m³/s), 25.98 in/yr (660 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,060 ft³/s (115 m³/s) Dec. 21, 1973 (gage height, 5.68 ft or 1.731 m), from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement at gage height 4.94 ft (1.506 m); maximum gage height, 5.94 ft (1.811 m) Sept. 12, 1960; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from floodmarks.

Current year: Peak discharges above base of 850 ft³/s (24.1 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 3	1845	1,860 52.7	4.39 1.338	July 25	0145	920 26.1	3.60 1.097
July 14	1545	1,230 34.8	3.89 1.186	Aug. 8	0945	*2,390 67.7	*4.74 1.445

Minimum discharge, 23 ft³/s (0.65 m³/s) July 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	40	90	50	110	125	131	131	77	41	57	68
2	131	38	141	47	93	110	120	141	59	37	51	62
3	110	37	126	43	83	100	430	133	114	35	46	55
4	97	53	100	47	70	90	447	149	261	34	51	46
5	85	128	86	41	72	84	280	169	172	31	85	41
6	73	157	81	40	70	85	218	139	368	28	48	57
7	67	112	80	45	66	84	180	124	275	27	235	46
8	61	99	304	41	61	95	157	114	202	25	1470	40
9	56	88	270	85	58	80	141	104	157	42	434	48
10	54	80	191	72	55	74	139	97	128	34	246	37
11	49	73	157	266	53	78	152	88	110	27	191	35
12	47	70	152	280	51	72	146	146	231	25	194	69
13	45	163	139	183	50	76	131	434	409	363	143	57
14	42	114	128	144	49	80	128	257	330	397	119	43
15	41	126	114	120	48	72	131	194	214	325	99	39
16	83	106	108	112	47	66	136	194	187	169	88	38
17	81	97	116	93	50	74	157	157	191	124	81	37
18	63	91	102	97	48	82	183	136	144	110	73	35
19	56	85	91	128	55	100	422	122	122	86	68	51
20	55	136	83	91	49	700	391	110	104	108	66	68
21	51	473	77	77	45	403	252	97	90	128	57	53
22	49	261	72	88	45	280	194	122	77	102	57	43
23	48	191	67	81	70	275	180	139	69	81	46	66
24	46	169	66	72	300	266	280	112	61	78	51	70
25	46	163	66	112	600	330	294	93	54	380	44	254
26	45	146	55	176	300	309	226	83	49	166	42	207
27	42	131	59	110	190	218	191	81	45	126	40	232
28	40	120	55	100	140	183	160	73	42	104	35	167
29	40	112	53	160	---	169	141	63	57	90	35	136
30	39	99	51	157	---	183	131	61	70	73	214	113
31	45	---	49	118	---	146	---	60	---	63	83	---
TOTAL	1947	3758	3329	3276	2928	5089	6669	4123	4469	3459	4549	2313
MEAN	62.8	125	107	106	105	164	222	133	149	112	147	77.1
MAX	160	473	304	280	600	700	830	434	409	397	1470	254
MIN	39	37	49	40	45	66	120	60	42	25	35	35
CFSM	1.47	2.93	2.51	2.49	2.46	3.85	5.21	3.12	3.50	2.63	3.45	1.81
IN.	1.70	3.28	2.91	2.86	2.56	4.44	5.82	3.60	3.90	3.02	3.97	2.02

CAL YR 1974 TOTAL 37236 MEAN 102 MAX 783 MIN 12 CFSM 2.39 IN 32.52
WTR YR 1975 TOTAL 45909 MEAN 126 MAX 1470 MIN 25 CFSM 2.96 IN 40.09

NOTE.--No gage-height record Feb. 22 to Mar. 20.

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°44'28", long 73°12'47", Berkshire County, multiple-parameter monitor on right bank 0.3 mi (0.5 km) upstream from Massachusetts-Vermont State line, 2 mi (3 km) northwest of Williamstown, and 3.9 mi (6.3 km) downstream from gaging station on Hoosic River near Williamstown.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--CHEMICAL ANALYSES: November 1968 to current year (no monitor records during winter of water year 1973, summer 1975).

WATER TEMPERATURES: November 1968 to current year (no monitor records during winter of water year 1973, summer 1975).

INSTRUMENTATION.--Four-parameter water-quality monitor.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 573 micromhos Feb. 20, 1974; minimum, 59 micromhos Apr. 19, 1972.

pH: Maximum, 9.9 Dec. 24, 1970; minimum, 5.8 July 5, 1970.

DISSOLVED OXYGEN: Maximum, 16.5 mg/l Feb. 15, 1971; minimum, 0.0 mg/l July 24, 25, 27, 28, 1970.

WATER TEMPERATURES: Maximum, 26.5°C July 27, 1970; minimum, freezing point on several days in water years 1970-71, 1973-75.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum recorded, 453 micromhos Jan. 29; minimum recorded, 104 micromhos Mar. 20.

pH: Maximum recorded, 9.6 Feb. 10; minimum recorded, 6.7 Nov. 1.

DISSOLVED OXYGEN: Maximum recorded, 15.3 mg/l Feb. 9; minimum not determined, probably occurred during period of missing record in the summer.

WATER TEMPERATURES: Maximum not determined, probably occurred during period of missing record in late summer; minimum, freezing point Jan. 30-Feb. 3, Feb. 10, 11.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	173	133	152	273	227	248	---	---	---	313	234	267
2	204	154	172	249	227	238	---	---	---	315	265	286
3	211	171	184	238	220	227	---	---	---	288	257	272
4	213	183	197	234	193	214	---	---	---	290	256	266
5	218	193	200	206	135	178	---	---	---	280	251	264
6	203	193	199	138	111	128	---	---	---	285	260	274
7	242	200	215	---	---	---	---	---	---	299	254	264
8	275	213	231	---	---	---	---	---	---	303	286	295
9	273	218	235	---	---	---	---	---	---	355	286	310
10	279	223	238	---	---	---	---	---	---	360	273	301
11	342	222	244	---	---	---	---	---	---	276	176	240
12	274	230	240	---	---	---	---	---	---	170	146	157
13	233	222	229	---	---	---	209	192	201	234	172	213
14	273	225	242	---	---	---	239	197	206	225	205	213
15	299	246	262	196	164	177	204	190	197	226	209	217
16	279	192	251	193	163	170	235	198	214	231	213	221
17	181	143	162	173	127	164	363	218	286	262	213	230
18	232	165	192	210	168	183	271	229	245	256	235	248
19	---	---	---	195	177	187	285	237	249	---	---	---
20	---	---	---	---	---	---	265	239	248	245	237	242
21	---	---	---	---	---	---	249	232	240	274	213	247
22	291	235	265	---	---	---	247	232	239	251	206	227
23	291	229	248	---	---	---	246	232	239	270	232	245
24	284	230	247	---	---	---	251	236	242	273	231	245
25	290	235	253	---	---	---	272	231	243	292	219	252
26	277	226	240	---	---	---	279	245	258	225	158	175
27	234	219	225	---	---	---	252	235	245	209	170	191
28	---	---	---	---	---	---	264	229	242	229	193	208
29	---	---	---	---	---	---	250	235	243	453	208	263
30	314	250	286	---	---	---	245	237	241	253	178	207
31	290	233	255	---	---	---	245	236	240	231	186	199
MONTH	342	133	226	---	---	---	---	---	---	453	146	241

HUDSON RIVER BASIN

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	212	190	199	233	195	206	201	173	186	---	---	---
2	219	190	208	215	202	207	228	178	206	---	---	---
3	241	204	217	252	202	218	235	154	204	---	---	---
4	303	225	248	256	212	229	---	---	---	---	---	---
5	280	220	242	274	212	232	---	---	---	---	---	---
6	272	221	244	270	214	239	---	---	---	---	---	---
7	299	248	263	270	225	241	---	---	---	---	---	---
8	276	225	245	259	226	242	---	---	---	---	---	---
9	229	217	225	244	177	232	---	---	---	---	---	---
10	252	216	232	296	222	240	---	---	---	---	---	---
11	261	211	232	280	225	244	---	---	---	---	---	---
12	266	208	225	291	232	255	---	---	---	---	---	---
13	280	217	237	272	230	253	---	---	---	---	---	---
14	294	219	249	267	229	246	---	---	---	---	---	---
15	339	230	269	335	232	258	---	---	---	---	---	---
16	327	250	288	307	239	259	---	---	---	172	148	158
17	383	257	298	272	237	250	---	---	---	167	151	159
18	360	310	334	275	228	246	---	---	---	169	161	166
19	408	351	375	273	209	232	---	---	---	204	167	178
20	383	313	350	259	104	142	---	---	---	226	180	193
21	356	309	331	146	108	127	---	---	---	237	192	207
22	321	291	303	172	149	160	---	---	---	284	203	241
23	318	272	291	186	172	180	---	---	---	236	178	202
24	272	124	201	---	---	---	---	---	---	208	186	197
25	137	119	129	---	---	---	---	---	---	205	199	201
26	166	137	155	145	126	136	---	---	---	205	191	198
27	198	158	182	179	146	161	---	---	---	205	200	219
28	229	195	204	173	155	164	---	---	---	208	214	235
29	---	---	---	169	154	163	---	---	---	209	230	251
30	---	---	---	182	163	171	---	---	---	---	---	---
31	---	---	---	194	163	176	---	---	---	---	---	---
MONTH	408	119	249	335	104	211	---	---	---	---	---	---
PERIOD	453	104	226									

PH (UNITS), OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.7	7.9	7.9	6.7	7.4	---	---	---	8.0	7.8	7.9
2	8.1	7.6	7.8	8.1	7.3	7.6	---	---	---	8.0	7.6	7.8
3	8.0	7.3	7.6	8.1	7.3	7.6	---	---	---	7.8	7.6	7.7
4	8.8	7.4	8.1	7.6	7.3	7.4	---	---	---	7.9	7.7	7.8
5	9.0	8.2	8.5	7.5	7.1	7.3	---	---	---	7.9	7.6	7.8
6	8.8	7.8	8.3	7.5	7.1	7.3	---	---	---	7.8	7.5	7.7
7	8.4	7.7	8.1	7.6	7.3	7.5	---	---	---	7.7	7.5	7.6
8	8.3	7.6	7.9	7.7	7.6	7.7	---	---	---	7.7	7.4	7.6
9	8.2	7.5	7.7	7.9	7.7	7.8	---	---	---	7.6	7.4	7.5
10	7.6	7.3	7.4	7.9	7.8	7.8	---	---	---	7.6	7.4	7.5
11	---	---	---	8.0	7.7	7.8	---	---	---	7.6	7.4	7.5
12	---	---	---	7.9	7.7	7.9	---	---	---	7.5	7.0	7.4
13	---	---	---	7.9	7.5	7.7	8.3	8.1	8.1	7.5	7.2	7.4
14	---	---	---	7.6	7.5	7.6	8.5	8.1	8.2	7.6	7.3	7.4
15	---	---	---	8.0	7.5	7.7	8.3	8.1	8.2	7.7	7.5	7.6
16	7.6	7.3	7.5	8.1	7.6	7.8	8.6	8.2	8.3	7.9	7.3	7.7
17	7.6	7.3	7.4	7.9	7.6	7.7	8.6	8.1	8.3	8.3	7.8	8.0
18	8.1	7.6	7.8	8.3	7.5	7.7	9.0	8.2	8.4	8.2	7.8	8.1
19	---	---	---	7.5	7.5	7.5	8.9	8.1	8.4	8.3	8.1	8.2
20	---	---	---	---	---	---	8.2	8.0	8.1	8.5	8.0	8.2
21	---	---	---	---	---	---	8.3	8.0	8.1	8.8	8.2	8.4
22	8.1	7.6	7.9	---	---	---	8.0	7.6	7.9	8.6	8.2	8.4
23	8.2	7.7	7.9	---	---	---	8.1	7.9	8.0	8.7	8.0	8.4
24	8.4	7.9	8.0	---	---	---	8.1	7.8	7.9	8.9	8.3	8.6
25	8.5	8.1	8.2	---	---	---	7.9	7.7	7.8	8.9	8.4	8.6
26	8.9	8.4	8.6	---	---	---	8.1	7.7	7.8	8.5	7.9	8.2
27	9.0	8.6	8.8	---	---	---	8.1	7.7	7.8	8.3	7.9	8.1
28	---	---	---	---	---	---	8.5	7.9	8.1	8.6	7.4	8.0
29	---	---	---	---	---	---	8.0	7.9	7.9	8.6	7.5	8.0
30	8.2	7.4	7.9	---	---	---	8.0	7.8	7.8	8.3	6.9	7.8
31	7.9	7.1	7.5	---	---	---	8.0	7.7	7.9	8.7	6.9	7.7
MONTH	---	---	---	---	---	---	---	---	---	8.9	6.9	7.9

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

PH (UNITS), OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.2	7.4	8.7	7.2	8.0	8.1	7.6	7.8	---	---	---
2	7.6	7.0	7.4	8.2	7.9	8.0	8.1	7.0	7.5	---	---	---
3	8.2	8.4	7.5	8.6	7.8	8.2	7.3	7.0	7.1	---	---	---
4	8.7	7.8	8.2	8.9	8.1	8.3	---	---	---	---	---	---
5	8.7	8.0	8.3	8.7	8.0	8.3	---	---	---	---	---	---
6	8.6	7.8	8.2	8.6	7.8	8.1	---	---	---	---	---	---
7	8.7	8.0	8.3	8.6	7.8	8.0	---	---	---	---	---	---
8	8.9	8.3	8.5	8.1	7.8	7.9	---	---	---	---	---	---
9	8.6	8.2	8.4	8.1	7.8	8.0	---	---	---	---	---	---
10	9.6	8.2	8.5	8.8	8.0	8.3	---	---	---	---	---	---
11	9.1	8.1	8.5	8.7	8.0	8.2	---	---	---	---	---	---
12	9.1	8.0	8.3	8.9	8.0	8.3	---	---	---	---	---	---
13	9.1	7.8	8.1	8.8	8.2	8.4	---	---	---	---	---	---
14	8.8	7.7	8.0	8.8	8.1	8.4	---	---	---	---	---	---
15	8.6	7.8	8.0	8.7	8.1	8.3	---	---	---	---	---	---
16	8.2	7.8	8.0	8.4	8.0	8.2	---	---	---	8.5	7.8	8.2
17	8.6	7.9	8.1	8.7	7.9	8.2	---	---	---	9.0	7.9	8.4
18	8.8	7.8	8.2	9.1	7.9	8.3	---	---	---	8.9	8.0	8.4
19	8.7	7.6	8.1	8.7	7.9	8.1	---	---	---	8.9	7.8	8.3
20	8.8	7.3	8.0	7.9	7.5	7.8	---	---	---	9.0	7.8	8.4
21	8.7	7.4	7.9	8.0	7.3	7.7	---	---	---	9.2	7.9	8.4
22	8.8	7.8	8.2	7.3	7.1	7.2	---	---	---	8.0	6.8	7.4
23	8.3	7.8	8.1	7.8	7.1	7.4	---	---	---	8.5	7.5	8.0
24	8.3	7.8	8.1	7.8	7.7	7.8	---	---	---	8.7	7.7	8.1
25	8.9	7.6	8.2	8.0	7.4	7.6	---	---	---	8.6	7.7	8.1
26	9.6	7.7	8.9	8.2	7.8	7.9	---	---	---	8.8	7.8	8.3
27	9.0	7.6	8.6	8.4	7.7	8.0	---	---	---	8.4	7.6	7.9
28	9.2	8.5	8.9	8.1	7.7	7.8	---	---	---	8.9	7.6	8.2
29	---	---	---	7.7	7.5	7.6	---	---	---	8.7	7.7	8.1
30	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
31	---	---	---	7.8	7.4	7.6	---	---	---	---	---	---
MONTH	9.6	6.9	8.2	9.1	7.1	8.0	---	---	---	---	---	---
	9.6	6.7	8.0									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	7.9	9.3	11.8	8.7	9.6	---	---	---	11.0	10.1	10.5
2	12.5	9.6	11.5	13.5	8.5	10.5	---	---	---	12.1	10.2	11.2
3	12.6	6.1	10.8	13.2	9.1	10.7	---	---	---	11.2	10.4	10.8
4	13.6	7.9	11.4	11.3	8.6	10.0	---	---	---	11.2	10.4	10.7
5	13.9	9.9	11.9	---	---	---	---	---	---	11.8	10.7	11.3
6	12.9	8.8	11.0	---	---	---	---	---	---	12.0	11.3	11.6
7	11.4	7.6	9.6	---	---	---	---	---	---	12.3	11.2	11.7
8	12.0	8.5	10.6	---	---	---	---	---	---	12.1	10.9	11.4
9	12.1	9.8	10.8	---	---	---	---	---	---	11.4	10.6	11.1
10	11.2	9.5	10.1	---	---	---	---	---	---	11.7	10.9	11.3
11	11.5	9.3	10.1	---	---	---	---	---	---	12.0	10.9	11.2
12	11.4	8.6	9.8	---	---	---	---	---	---	12.9	12.1	12.6
13	11.6	8.3	9.6	---	---	---	13.0	12.4	12.5	13.3	12.5	13.0
14	10.0	8.0	8.9	---	---	---	12.3	11.9	12.1	14.0	13.2	13.5
15	8.9	7.4	8.2	---	---	---	13.0	12.1	12.5	14.1	13.3	13.6
16	10.1	8.4	9.2	---	---	---	12.6	11.9	12.4	14.0	13.2	13.6
17	10.4	8.3	9.4	---	---	---	11.4	10.8	11.1	13.7	12.0	13.1
18	9.5	8.3	8.7	---	---	---	13.2	11.1	12.3	11.9	10.2	10.8
19	---	---	---	---	---	---	13.6	12.7	13.1	---	---	---
20	---	---	---	---	---	---	13.4	12.8	13.1	---	---	---
21	---	---	---	---	---	---	13.2	12.0	12.5	11.5	10.9	11.3
22	12.8	10.7	11.6	---	---	---	13.3	12.1	12.8	11.5	11.0	11.2
23	12.5	10.4	11.3	---	---	---	13.2	11.6	12.4	12.1	11.1	11.6
24	13.1	10.4	11.4	---	---	---	12.2	11.3	11.8	11.5	10.5	11.1
25	12.0	10.4	11.1	---	---	---	12.8	11.6	11.9	10.7	10.1	10.4
26	13.2	10.4	11.5	---	---	---	13.4	11.7	12.6	11.0	9.9	10.6
27	13.0	10.3	11.3	---	---	---	11.5	10.7	11.2	11.9	10.6	11.5
28	---	---	---	---	---	---	10.8	10.2	10.6	12.1	9.1	11.6
29	---	---	---	---	---	---	10.9	10.1	10.6	11.3	10.2	10.9
30	11.2	8.5	9.5	---	---	---	10.4	9.9	10.1	11.8	10.7	11.3
31	11.7	8.4	9.6	---	---	---	11.7	10.4	11.1	---	---	---
MONTH	13.9	6.1	10.3	---	---	---	---	---	---	14.1	9.1	11.6

HUDSON RIVER BASIN

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1974 TO MAY 1975.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.3	11.8	12.0	---	---	---	---	---	---
2	---	---	---	12.5	11.9	12.2	12.2	10.5	11.1	---	---	---
3	---	---	---	12.6	12.0	12.3	12.5	10.1	11.1	---	---	---
4	13.9	13.1	13.5	12.6	12.1	12.3	---	---	---	---	---	---
5	13.9	13.4	13.7	12.5	11.9	12.2	---	---	---	---	---	---
6	14.6	13.8	14.1	12.5	11.9	12.3	---	---	---	---	---	---
7	14.4	13.5	14.0	12.3	11.4	11.9	---	---	---	---	---	---
8	14.7	13.2	14.1	12.3	11.4	11.9	---	---	---	---	---	---
9	15.3	13.5	14.3	13.0	12.4	12.7	---	---	---	---	---	---
10	13.9	13.2	14.1	12.7	12.0	12.4	---	---	---	---	---	---
11	13.1	11.7	12.3	12.4	11.7	12.1	---	---	---	---	---	---
12	14.1	11.8	12.4	12.1	10.3	11.5	---	---	---	---	---	---
13	13.1	12.3	12.8	11.2	10.1	10.7	---	---	---	---	---	---
14	13.8	11.7	12.9	11.8	10.9	11.4	---	---	---	---	---	---
15	13.8	11.8	12.9	12.4	11.2	11.8	---	---	---	---	---	---
16	13.7	12.5	13.1	12.5	10.9	11.6	---	---	---	9.6	8.6	9.2
17	13.9	12.3	13.1	11.9	10.2	11.0	---	---	---	11.1	9.2	10.2
18	13.3	11.9	12.6	11.7	10.0	10.7	---	---	---	10.6	8.0	9.6
19	13.2	11.7	12.5	11.1	10.1	10.6	---	---	---	10.3	7.2	8.9
20	14.0	11.9	12.8	11.8	10.2	11.3	---	---	---	9.0	6.3	7.4
21	13.4	11.5	12.2	12.5	11.6	12.0	---	---	---	8.0	6.2	7.1
22	13.3	10.8	11.9	---	---	---	---	---	---	---	---	---
23	11.6	10.4	11.0	---	---	---	---	---	---	7.2	5.9	6.2
24	14.0	10.5	12.3	---	---	---	---	---	---	---	---	---
25	13.1	10.0	12.5	---	---	---	---	---	---	---	---	---
26	13.2	12.2	12.5	---	---	---	---	---	---	---	---	---
27	12.7	11.7	12.3	---	---	---	---	---	---	---	---	---
28	12.4	11.6	12.0	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	15.3	10.0	12.9	---	---	---	---	---	---	---	---	---
PERIOD	15.3	5.9	11.4	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, OCTOBER 1974 TO MAY 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	10.0	10.5	14.0	12.0	13.0	---	---	---	1.5	1.0	1.0
2	11.0	9.5	10.5	13.0	10.0	12.0	---	---	---	2.0	1.0	1.5
3	10.0	9.0	9.5	10.0	8.5	9.5	---	---	---	1.5	1.0	1.0
4	10.0	8.0	9.0	11.0	9.5	10.5	---	---	---	2.0	1.5	1.5
5	11.5	8.0	9.5	10.5	9.0	10.0	---	---	---	1.5	1.0	1.0
6	13.5	10.5	12.0	10.0	9.0	9.5	---	---	---	1.0	0.5	0.5
7	12.5	11.5	12.0	11.0	8.5	9.5	---	---	---	2.0	0.5	1.0
8	11.0	9.5	10.5	9.5	7.0	8.0	---	---	---	2.5	1.5	2.0
9	11.0	9.0	10.0	7.0	3.5	5.5	---	---	---	2.5	2.0	2.0
10	10.5	9.5	10.0	6.5	2.5	5.0	---	---	---	3.0	2.0	2.5
11	11.0	9.0	10.0	11.5	5.0	9.5	---	---	---	3.0	2.5	3.0
12	11.5	9.0	10.5	11.0	8.0	9.5	---	---	---	2.5	1.5	2.0
13	12.0	10.5	11.5	10.0	5.5	8.0	4.5	4.5	4.5	2.0	1.5	1.5
14	11.0	10.0	10.5	8.0	3.5	7.0	4.5	3.5	4.0	1.5	1.0	1.5
15	12.5	11.5	12.0	7.5	5.5	6.5	3.0	2.5	2.5	1.5	1.0	1.0
16	11.5	10.0	11.0	6.0	5.0	5.5	2.0	1.0	1.5	1.5	1.0	1.0
17	11.5	9.5	10.5	6.0	4.0	5.0	2.5	1.0	2.0	1.0	1.0	1.0
18	10.5	8.5	9.5	8.5	5.5	6.5	2.5	2.0	2.0	1.0	0.5	0.5
19	---	---	---	8.0	7.0	7.5	2.5	2.0	2.0	2.0	0.5	1.5
20	---	---	---	---	---	---	3.0	2.0	2.5	1.5	0.5	1.0
21	---	---	---	---	---	---	2.5	2.0	2.5	1.0	0.5	0.5
22	8.0	7.5	8.0	---	---	---	2.5	2.0	2.5	1.0	0.5	0.5
23	9.5	7.5	8.5	---	---	---	2.5	2.0	2.0	0.5	0.5	0.5
24	9.0	7.0	8.0	---	---	---	2.5	2.0	2.5	1.5	0.5	1.0
25	7.5	6.5	7.0	---	---	---	2.0	1.0	1.5	1.5	1.0	1.5
26	8.0	6.5	7.5	---	---	---	1.5	0.0	1.0	1.5	0.5	1.0
27	8.0	6.5	7.5	---	---	---	1.5	1.0	1.0	0.5	0.5	0.5
28	---	---	---	---	---	---	2.0	1.0	1.5	1.5	0.5	1.0
29	---	---	---	---	---	---	2.0	1.0	1.5	1.5	1.0	1.0
30	11.5	11.0	10.5	---	---	---	2.5	2.0	2.0	1.5	0.0	0.5
31	13.5	11.5	12.0	---	---	---	1.5	1.0	1.0	0.5	0.0	0.5
MONTH	13.5	6.5	10.0	---	---	---	---	---	---	3.0	0.0	1.0

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second, a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Merrimack River basin						
01100565	Spicket River at Lawrence, Mass.	Lat 42°42'33", long 71°09'07", Essex County, 100 ft above bridge on General St., at Lawrence.	77.5	1973-75	10-11-74	30
01100570	Shawsheen River near Bedford, Mass.	Lat 42°28'25", long 71°15'52", Middlesex County, at bridge on Summer St., 1.3 mi southeast of Bedford.	6.65	1973-75	10-10-74	3.5
01100574	Elm Brook at Bedford, Mass.	Lat 42°29'13", long 71°15'52", Middlesex County, at culvert on Great Rd., 0.7 mi east of Bedford.	4.69	1973-75	10-10-74	2.3
01100590	Vine Brook at Route 62, near Bedford, Mass.	Lat 42°30'04", long 71°14'49", Middlesex County, at culvert on State Highway 62, 1.7 mi northeast of Bedford.	9.95	1973-75	10-10-74	1.5
01100603	Content Brook near Billerica, Mass.	Lat 42°34'45", long 71°13'31", Middlesex County, at culvert on Whipple Rd., 2.6 mi northeast of Billerica.	5.24	1973-75	10-10-74	6.8
01100608	Meadow Brook near Tewksbury, Mass.	Lat 42°37'14", long 71°12'44", Middlesex County, at culvert on Pinnacle St., 1.2 mi northeast of Tewksbury.	4.08	1973-75	10-10-74	1.4
01100610	Strong Water Brook near Tewksbury, Mass.	Lat 42°35'46", long 71°11'47", Middlesex County, at culvert on Shawsheen St., 2.1 mi southeast of Tewksbury.	9.25	1973-75	10-10-74	4.0
01100660	Bare Meadow Brook near Methuen, Mass.	Lat 42°45'32", long 71°08'05", Essex County, at culvert on Brookdale Ave., 3.8 mi northeast of Methuen.	7.68	1973-75	10-11-74	2.2
Mystic River basin						
01102465	Aberjona River at Montvale Ave., near Woburn, Mass.	Lat 42°28'46", long 71°07'07", Middlesex County, at bridge on Montvale Ave., 1.8 mi east of Woburn.	8.97	1973-75	10-11-74	3.0
01102480	Aberjona River at Swanton St., Winchester, Mass.	Lat 42°27'39", long 71°08'15", Middlesex County, 20 ft above bridge on Swanton St., 0.6 mi north of Winchester.	13.5a	1973-75	10- 9-74 10-10-74	3.2 2.9

a Does not include 0.62 mi² of Winchester's North Reservoir.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
Merrimack River basin							
01095200	Houghton Brook near Oakdale, Mass.	Lat 42°24'57", long 71°48'12", Worcester County, at culvert on State Highway 140, 2 mi north of Oakdale.	0.69	1964-75	9-27-75	7.96	33
01097450	Jackstraw Brook at Hopkinton Road, Westborough, Mass.	Lat 42°15'28", long 71°36'13", Worcester County, at culvert on Hopkinton Rd. (Route 135), 0.9 mi southeast of Westborough.	1.24	1972-75	4- 3-75	7.68	29
01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 3 mi northeast of Lowell.	4.32	1963-75	4- 3-75	12.19	71
01100800	Cobbler Brook near Merrimac, Mass.	Lat 42°50'55", long 71°01'10", Essex County, at culvert on Highland St., 1.3 mi northwest of Merrimac.	.77	1963-75	4- 3-75	9.45	75
Charles River basin							
01104600	Beaver Brook at Belmont, Mass.	Lat 42°23'26", long 71°11'51", Middlesex County, at culvert on State Highway 60 (Trapelo Rd.), 1 mi southwest of Belmont.	4.09	1963-75	2-24-75	10.54	97
South River basin							
01105850	Furnace Brook near Marshfield, Mass.	Lat 42°06'30", long 70°43'53", Plymouth County, at culvert on Furnace St., 1.7 mi northwest of Marshfield.	1.61	1964-75	1-14-75	8.97	37
Taunton River basin							
01109100	Taunton River tributary near Fall River, Mass.	Lat 41°45'31", long 71°07'01", Bristol County, at culvert on State Highway 79, 4 mi northeast of Fall River.	0.25	1964-75	1-13-75	10.36	32
Runnins River basin							
01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1.0 mi north of Seekonk.	4.24	1967-75	4- 3-75	*	a70
Blackstone River basin							
01111250	Dry Arm Brook near Wallum Lake, R.I.	Lat 41°58'22", long 71°45'03", Providence County, at culvert on State Highway 100, 1.8 mi south of Wallum Lake.	1.74	1966-75	5-13-75	8.11	50
01113600	Blackstone River tributary No. 2 at Berkeley, R.I.	Lat 41°55'27", long 71°24'49", Providence County, at culvert on State Highway 122, 0.5 mi southeast of Berkeley.	1.04	1966-75	4- 3-75	5.99	32
Pawtuxet River basin							
01115300	Wilbur Hollow Brook near Clayville, R.I.	Lat 41°46'06", long 71°38'03", Providence County, at culvert on State Highway 12, 2.3 mi east of Clayville.	4.61	1966-75	4- 3-75	11.46	81
01115830	Bear Brook near Coventry, R.I.	Lat 41°39'37", long 71°37'42", Kent County, at culvert on Fish Hill Rd., 3 mi south of Coventry.	3.98	1966-75	4- 3-75	8.15	88
01116600	Pocasset River near North Scituate, R.I.	Lat 41°50'13", long 71°31'49", Providence County, at culvert on Belfield Drive, 3 mi east of North Scituate.	1.34	1966-75	4- 3-75	8.15	26

* Unknown.

a Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1975--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Thames River basin							
01123160	Wales Brook tributary near Wales, Mass.	Lat 42°04'48", long 72°11'51", Hampden County, at culvert on Holland Rd., 1.5 mi northeast of Wales.	0.71	1964-75	9-27-75	9.15	47
01124050	Tufts Branch at Dudley, Mass.	Lat 42°03'11", long 71°56'22", Worcester County, at culvert on Dudley-Southbridge Rd., 0.7 mi northwest of Dudley.	1.06	1963-75	9-27-75	10.91	56
Connecticut River basin							
01161300	Millers Brook at North- field, Mass.	Lat 42°41'07", long 72°27'11", Franklin County, at culvert on Beers Plain Rd., 0.8 mi south of Northfield.	2.33	1964-75	9-26-75	20.12	b574
01171910	Broad Brook near Holyoke, Mass.	Lat 42°11'59", long 72°41'11", Hampden County, at culvert on Keys Rd., 3.5 mi west of Holyoke.	2.26	1965-75	9-26-75	19.02	134
01175600	Caruth Brook near Paxton, Mass.	Lat 42°19'00", long 71°58'16", Worcester County, at culvert on Spring St., 2.2 mi west of Paxton.	2.35	1964-75	5-14-75	8.07	112
01178230	Mill Brook at Plainfield, Mass.	Lat 42°30'57", long 72°55'30", Hampshire County, at culvert on High St., 0.4 mi west of Plainfield.	4.47	1964-75	8- 8-75	14.70	210
01183100	Seymour Brook tributary at Granville, Mass.	Lat 42°03'53", long 72°51'42", Hampden County, at culvert on State Highway 189, at Granville.	.66	1964-75	9-27-75	14.24	c185
01183810	Longmeadow Brook at Pondside Rd., near Long- meadow, Mass.	Lat 42°02'22", long 72°35'32", Hampden County, at culvert on Pondside Rd., 2 mi southwest of Longmeadow.	4.15	1967-75	6-13-75	5.85	102
Housatonic River basin							
01197550	Housatonic River tribu- tary at Risingdale, Mass.	Lat 42°13'57", long 73°20'47", Berkshire County, at culvert on State Highway 183, 0.7 mi southeast of Risingdale.	0.69	1963-75	6-12-75	16.16	27

b Includes 120 cfs (estimated) flow over highway embankment.

c Includes 5 cfs (estimated) flow over highway embankment.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1975

Discharge measurements made at miscellaneous sites during water year 1975						
Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Dis-charge (ft ³ /s)
Merrimack River basin						
Cow Pond Brook	Salmon Brook	Lat 42°37'08", long 71°30'31", Middlesex County, at culvert on Wharf Rd., 3 mi east of Groton, Mass.	-	-	6-26-75	*4.5
Salmon Brook	Merrimack River	Lat 42°40'42", long 71°29'37", Middlesex County, at culvert on Main St., Dunstable, Mass.	-	-	6-26-75	*12
Stony Brook	do	Lat 42°35'04", long 71°28'46", Middlesex County, at Town Farm Rd., 2 mi west of Westford, Mass.	-	-	6-26-75	*8.9
do	do	Lat 42°37'22", long 71°23'35", Middlesex County, at two culverts on Meadowbrook Rd., 1 mi south of Chelmsford, Mass.	-	-	6-26-75	*13
Beaver Brook	do	Lat 42°41'43", long 71°20'57", Middlesex County, 1,000 ft south of N.H.-Mass. State line, 3 mi northwest of Dracut, Mass.	-	-	6-27-75	*23
Assabet River	Concord River	Lat 42°16'16", long 71°37'59", Worcester County, at culvert on Fisher St., 1 mi west of Westborough, Mass.	-	-	6-24-75	*2.4
Hop Brook	Assabet River	Lat 42°17'35", long 71°39'48", Worcester County, at culvert on U.S. Highway 20, 2 mi southwest of Northborough, Mass.	-	-	6-24-75	*2.2
Assabet River	Concord River	Lat 42°18'55", long 71°38'05", Worcester County, at culvert on railroad line east of School St., Northborough, Mass.	-	-	6-24-75	*13
North Brook	Assabet River	Lat 42°21'15", long 71°37'40", Worcester County, at culvert on Whitney St., 2 mi south of Berlin, Mass.	-	-	6-24-75	*3.7
Danforth Brook	do	Lat 42°23'57", long 71°34'00", Middlesex County, at culvert on Cox St., Hudson, Mass.	-	-	6-24-75	*.92
Fort Meadow Brook	do	Lat 42°23'20", long 71°31'19", Middlesex County, at culvert on Chestnut St., 2 mi east of Hudson, Mass.	-	-	6-24-75	*2.2
Elizabeth Brook	do	Lat 42°25'47", long 71°30'56", Middlesex County, at culvert on Wheeler St., 1 mi southwest of Stow, Mass.	-	-	6-25-75	*6.7
Fort Pond Brook	do	Lat 42°28'07", long 71°24'31", Middlesex County, 400 ft upstream from confluence with Nashoba Brook, 1 mi northwest of West Concord, Mass.	-	-	6-25-75	*4.6
Nashoba Brook	Fort Pond Brook	Lat 42°28'06", long 71°24'26", Middlesex County, 200 ft downstream from State Highway 2, 1 mi northwest of West Concord, Mass.	-	-	6-25-75	*3.6
Assabet River	Concord River	Lat 42°27'56", long 71°23'32", Middlesex County, at bridge on State Highway 2, 2 mi west of Concord, Mass.	-	-	6-27-75	*50
Spencer Brook	Assabet River	Lat 42°28'31", long 71°22'40", Middlesex County, at outlet of Angiers Pond, 2 mi northwest of Concord, Mass.	-	-	6-25-75	*.67
Sudbury River	Concord River	Lat 42°16'02", long 71°33'12", Middlesex County, at bridge on Fruit St., 3 mi northwest of Hopkinton, Mass.	-	-	6-24-75	*8.7
do	do	Lat 42°15'36", long 71°27'25", Middlesex County, at culvert on Fountain St., Ashland, Mass.	-	-	6-23-75	*11

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1975.--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Dis- charge (ft ³ /s)
Merrimack River basin--Continued						
Beaverdam Brook	Lake Cochituate	Lat 42°17'04", long 71°23'33", Middlesex County, at culvert on Boden Lane, 2 mi west of Natick, Mass.	-	-	6-23-75	*3.3
Hop Brook	Wash Brook	Lat 42°22'40", long 71°25'43", Middlesex County, at culvert on Peakham Rd., 1 mi southwest of Sudbury, Mass.	-	-	6-23-75	*7.2
Wash Brook	Sudbury River	Lat 42°21'26", long 71°24'13", Middlesex County, at culvert on Landham Rd., 2 mi southeast of Sudbury, Mass.	-	-		*13
River Meadow Brook	Concord River	Lat 42°37'29", long 71°19'11", Middlesex County, at bridge on Plain St., Lowell, Mass.	-	-	6-25-75	*8.1
Spicket River	Merrimack River	Lat 42°43'26", long 71°11'08", Essex County, at dam just above most north- erly bridge on Broadway (State Highway 28) at Methuen, Mass., 3.2 mi above mouth.	73.8	1968, 1974	10-11-74	*34

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
MERRIMACK RIVER BASIN											
01094400 NORTH NASHUA RIVER AT FITCHBURG, MASS.											
OCT. 31	1200	14.0	DEC. 10	1400	2.5	MAY 15	1200	18.0	JULY 08	1100	25.0
01094500 NORTH NASHUA RIVER NEAR LEOMINSTER, MASS.											
OCT. 31	1000	14.5	JAN. 24	1400	.5	MAY 15	1000	17.5	JULY 10	900	25.0
01096000 SQUANNAHOOK RIVER NEAR WEST GROTON, MASS.											
OCT. 30	1200	7.5	MAR. 12	1000	2.0	JULY 02	1000	22.5	AUG. 21	900	18.0
JAN. 21	1000	0.0	MAY 07	1100	7.0						
01096500 NASHUA RIVER AT EAST PEPPERELL, MASS.											
OCT. 30	1000	10.5	MAY 07	1000	7.0	JULY 02	1200	26.0	AUG. 21	1100	23.0
01097000 ASSAQUET RIVER AT MAYNARD, MASS.											
MAR. 05	1300	2.0	MAY 08	1300	12.0	AUG. 22	1400	25.0			
01097300 NASHUA BROOK NEAR ACTON, MASS.											
OCT. 30	1400	7.5	MAR. 05	1200	1.0	MAY 12	1100	17.0	JUNE 25	1500	25.0
JAN. 21	1400	0.0									
01099500 CONCORD RIVER BELOW RIVER MEADOW BROOK, AT LOWELL, MASS.											
JAN. 17	1300	1.0	MAY 14	1300	16.0	JULY 01	900	26.0	AUG. 27	1100	25.5
01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.											
NOV. 04	1300	13.5	MAY 14	1100	16.5	JULY 01	1200	25.0	SEP. 12	1400	21.0
01100600 SHAWSHOEN RIVER NEAR WILMINGTON, MASS.											
DEC. 31	1200	1.5	MAR. 12	1400	1.0	MAY 12	1300	17.5	AUG. 27	0900	20.0
PARKER RIVER BASIN											
01101000 PARKER RIVER AT BYFIELD, MASS.											
NOV. 26	1300	3.0	JAN. 14	1600	1.0						
IPSWICH RIVER BASIN											
01101500 IPSWICH RIVER AT SOUTH MIDDLETON, MASS.											
JAN. 14	1200	.5	MAY 05	1000	8.0	JUNE 26	1200	26.0	AUG. 14	0900	22.5
MAR. 17	0900	2.0									
01102000 IPSWICH RIVER NEAR IPSWICH, MASS.											
OCT. 18	1100	10.5	MAY 05	1200	6.5	JUNE 26	1500	23.5	AUG. 14	1100	23.0
JAN. 07	1100	1.0									
MYSTIC RIVER BASIN											
01102500 ABERJONA RIVER AT WINCHESTER, MASS.											
AUG. 22	1200	7.0	MAR. 28	1200	7.0	MAY 21	1100	21.0	JULY 28	1500	22.5
DEC. 31	1500	4.0	MAY 09	1100	15.0	JUNE 20	1000	19.0	SEP. 17	1400	15.0

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
CHARLES RIVER BASIN											
01103305 CHARLES RIVER NEAR MILLIS, MASS.											
NOV. 06	1300	13.0	MAR. 21	1300	6.0	JUNE 10	1300	17.0	SEP. 25	1100	15.0
JAN. 31	1030	0.0	APR. 30	1500	12.0	AUG. 04	1400	25.0			
01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.											
NOV. 06	1000	12.5	MAY 06	1100	11.0	JULY 07	1300	24.5	SEP. 08	1200	20.5
01104000 MOTHER BROOK AT DEDHAM, MASS.											
NOV. 05	1400	14.0	APR. 01	1300	6.0	AUG. 04	1030	24.5	SEP. 18	1300	17.5
JAN. 03	1330	1.0	APR. 30	1030	10.0						
01104200 CHARLES RIVER AT WELLESLEY, MASS.											
NOV. 01	1330	13.0	MAR. 27	1600	4.0	MAY 07	1230	16.0	AUG. 04	1600	27.0
JAN. 02	1000	2.0									
01104500 CHARLES RIVER AT WALTHAM, MASS.											
OCT. 16	1300	8.5	MAR. 28	1500	6.0	JUNE 09	1030	5.0	AUG. 12	1000	20.0
JAN. 02	1130	1.5									
NEPONSET RIVER BASIN											
01105000 NEPONSET RIVER AT NORWOOD, MASS.											
JAN. 03	1000	0.5	MAR. 21	1630	6.0	JULY 21	1400	27.0	SEP. 18	1100	18.0
FEB. 14	1600	2.0									
01105500 EAST BRANCH NEPONSET RIVER AT CANTON, MASS.											
NOV. 05	1230	13.5	MAR. 18	1530	1.0	JULY 21	1130	25.0	SEP. 18	1000	17.5
JAN. 03	1200	0.5	APR. 01	1630	7.0						
BLACKS CREEK BASIN											
01105557 FURNACE BROOK AT QUINCY, MASS.											
OCT. 09	1100	9.0	MAR. 20	1100	8.0	JUNE 12	1130	15.0	AUG. 06	1100	24.0
DEC. 02	1000	4.5	MAY 20	1100	8.0	JULY 23	1100	20.0	SEP. 24	1100	15.5
FEB. 06	1300	4.0									
WEYMOUTH FORE RIVER BASIN											
01105585 TOWN BROOK AT QUINCY, MASS.											
DEC. 02	1200	4.5	MAY 02	1400	9.0	JULY 23	930	20.0	SEP. 24	1000	16.0
MAR. 20	1430	8.0	JUNE 12	1000	14.0	AUG. 06	1000	24.0			
WEYMOUTH BACK RIVER BASIN											
01105600 OLD SWAMP RIVER SOUTH WEYMOUTH, MASS.											
OCT. 16	1130	13.5	MAR. 19	1100	4.0	JUNE 17	1030	18.0	SEP. 23	1100	16.0
FEB. 07	1500	5.0	MAY 05	1030	8.0	JULY 23	1300	24.5			

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
NORTH RIVER BASIN											
01105730 INDIAN HEAD RIVER AT HANOVER, MASS.											
OCT. 02	1500	13.0	FEB. 12	1130	1.0	JUNE 12	1400	19.0	SEP. 16	1600	16.5
DEC. 11	1300	3.0	MAR. 19	1500	5.0	JULY 11	1000	24.0			
JONES RIVER BASIN											
01105870 JONES RIVER AT KINGSTON, MASS.											
OCT. 02	1200	13.0	MAR. 17	1500	5.0	JUNE 18	1400	25.0	AUG. 05	1300	24.0
DEC. 11	1000	2.0	MAY 06	1600	12.0	JULY 31	1500	26.0	SEP. 24	1200	15.5
FEB. 10	1400	6.0									
HERRING RIVER BASIN											
01105880 HERRING RIVER AT NORTH HAWWICH, MASS.											
NOV. 07	1400	12.5	FEB. 03	1500	4.0	MAY 08	1500	12.0	AUG. 05	1130	22.0
JAN. 30	1130	0.0	MAR. 17	1300	5.0	JUNE 19	1400	23.0	SEP. 22	0100	18.5
WEST BRANCH WESTPORT RIVER BASIN											
01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.											
NOV. 07	1130	10.5	FEB. 20	1430	2.0	MAY 08	1200	9.0	AUG. 01	1030	23.0
JAN. 16	1230	0.5	MAR. 31	1300	5.0	JUNE 16	1500	10.0	SEP. 19	1330	16.0
TAUNTON RIVER BASIN											
01108000 TAUNTON RIVER AT STATE FARM, NEAR BRIDGEWATER, MASS.											
OCT. 02	1030	14.5	MAY 06	1200	10.0	JUNE 18	1200	22.0	SEP. 16	1300	15.5
01108500 WADING RIVER AT WEST MANSFIELD, MASS.											
JAN. 08	1000	1.0	MAR. 25	1400	5.0	JUNE 11	1000	18.0	SEP. 15	1100	17.0
FEB. 25	1200	3.0	APR. 29	1000	8.0	JULY 22	1000	26.0			
01109000 WADING RIVER NEAR NORTON, MASS.											
OCT. 17	1300	11.5	FEB. 19	1600	3.0	APR. 29	1300	10.0	SEP. 15	1400	15.5
JAN. 08	1200	15.0	MAR. 31	1600	5.0	JUNE 11	1300	19.0			
01109060 THREEMILE RIVER AT NORTH DIGHTON, MASS.											
OCT. 03	1030	13.5	APR. 02	1530	6.0	JULY 31	1300	24.5	SEP. 16	1100	15.0
01109070 SEGREGANSET RIVER NEAR DIGHTON, MASS.											
OCT. 03	1200	14.0	APR. 02	1300	6.0	JULY 31	1100	22.0	SEP. 19	1100	16.5
DEC. 03	1200	3.0	APR. 29	1600	10.0						
BLACKSTONE RIVER BASIN											
01109500 KETTLE BROOK AT WORCESTER, MASS.											
JAN. 16	1400	0.5	APR. 10	1330	5.5	JUNE 24	1000	25.5	SEP. 05	930	20.0

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
BLACKSTONE RIVER BASIN--CONTINUED											
01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MASS.											
NOV. 04	1330	10.0	APR. 10	1100	5.5	JUNE 10	0800	26.0	SEP. 05	1130	19.5
01110500 BLACKSTONE RIVER AT NORTHBRIDGE, MASS											
JAN. 16	1500	1.0	MAY 15	1200	17.5	JULY 25	1000	23.0	SEP. 14	1400	19.5
01111200 WEST RIVER BELOW WEST HILL DAM, NEAR UXBRIDGE, MASS.											
OCT. 30	0900	7.0	MAY 15	1030	16.5	JULY 28	1000	19.0			
01111300 NIPMUC RIVER NEAR HARKISVILLE, R.I.											
JAN. 02	1200	0.0	MAY 22	1400	16.8	AUG. 06	0900	20.0			
01111410 CHEPACHET RIVER AT GAZZAVILLE, R.I.											
JAN. 28	1400	1.5	MAY 17	0830	15.0	JULY 26	0800	23.5			
01111500 BRANCH RIVER AT FORESTDALE, R.I.											
MAY 23	0900	24.0	JULY 24	0830	24.0	AUG. 25	1000	20.5	SEP. 22	1000	18.5
JUNE 23	0830	22.5									
01112500 BLACKSTONE RIVER AT WOONSOCKET, R.I.											
AUG. 24	0900	21.0									
MOSHASSUCK RIVER BASIN											
01114000 MOSHASSUCK RIVER AT PROVIDENCE, R.I.											
JUNE 09	0900	15.0									
WOONASQUATUCKET RIVER BASIN											
01114500 WOONASQUATUCKET RIVER AT CENTERDALE, R.I.											
JAN. 28	1200	2.0	JUNE 10	0900	15.5	AUG. 29	0900	20.0			
PAWTUXET RIVER BASIN											
01115630 NOOSENECK RIVER AT NOOSENECK, R.I.											
MAY 28	1000	15.5	AUG. 20	1000	18.5						
01115770 CARR RIVER NEAR NOOSENECK, R.I.											
JAN. 15	1200	0.5	MAY 28	1100	16.5	AUG. 20	1100	22.0			
01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, R.I.											
MAY 28	1300	21.0									
01116500 PAWTUXET RIVER AT CRANSTON, R.I.											
JULY 29	1200	22.0	SEP. 18	1400	17.0						

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
POTOWOMUT RIVER BASIN											
01117000 POTOWOMUT RIVER NEAR EAST GREENWICH, R.I.											
JUNE 10	1300	15.5	JULY 29	0900	19.0						
PAWCATUCK RIVER BASIN											
01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.											
OCT. 02	1600	17.0	DEC. 02	1600	6.0	APR. 14	1200	7.5	JUNE 24	0900	24.0
OCT. 16	1230	13.5	DEC. 30	1500	3.5	MAY 14	1000	16.5	SEP. 16	1100	15.0
NOV. 05	1300	13.5	JAN. 29	1300	2.5	JUNE 03	1100	20.0			
01117420 USQUEPAUG RIVER NEAR USQUEPAUG, R.I.											
DEC. 06	1400	4.0	FEB. 14	1230	0.0	APR. 14	1500	8.0	MAY 14	1330	16.5
DEC. 17	1600	4.0									
0111746R BEAVER RIVER NEAR USQUEPAUG, R.I.											
DEC. 05	1030	2.0	APR. 14	1230	7.0	JUNE 25	1030	17.0	AUG. 29	1100	14.0
MAR. 06	1100	2.0	MAY 14	1130	14.5						
01117800 WOOD RIVER NEAR ARCADIA, R.I.											
MAY 30	1100	15.5	AUG. 20	0900	14.0						
01118000 WOOD RIVER AT HOPE VALLEY, R.I.											
MAY 29	1600	21.0	JULY 30	1400	21.0						
01118500 PAWCATUCK RIVER AT WESTERLY, R.I.											
MAY 29	1000	19.5	JULY 30	0800	19.0	SEP. 18	1100	16.0			
THAMES RIVER BASIN											
01123360 QUINEBAUG RIVER BELOW EAST BRIMFIELD DAM, AT FISKDALE, MASS.											
APR. 17	1330	9.0	SEP. 08	1100	20.0						
01123600 QUINEBAUG RIVER BELOW WESTVILLE DAM, NEAR SOUTHBRIDGE, MASS.											
APR. 17	1500	9.0	SEP. 10	0730	18.0						
01124350 FRENCH RIVER BELOW HODGES VILLAGE DAM, AT HODGES VILLAGE, MASS.											
APR. 16	1100	8.0	SEP. 09	0900	17.5						
01124500 LITTLE RIVER AT BUFFUMVILLE, MASS.											
JAN. 30	1200	1.5	APR. 18	1130	9.5	JULY 21	1130	22.0	SEP. 09	1130	20.0
01124750 BROWNS BROOK NEAR WEBSTER, MASS.											
APR. 18	0900	5.5	JULY 21	1400	16.0						
01125000 FRENCH RIVER AT WEBSTER, MASS.											
MAY 08	1000	11.5	JULY 21	0930	24.5	SEP. 09	1400	21.0			

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
CONNECTICUT RIVER BASIN											
01161500 TARBELL BROOK NEAR WINCHENDON, MASS.											
DEC. 06	1500	0.5	FEB. 27	1330	1.0	JUNE 02	1030	22.0	SEP. 16	1000	12.0
JAN. 28	0930	0.5	APR. 16	1700	6.0	JULY 18	1000	24.5			
01162000 MILLERS RIVER NEAR WINCHENDON, MASS.											
DEC. 04	0900	1.0	MAR. 10	0900	0.0	JUNE 02	1400	21.5	SEP. 15	1500	16.5
JAN. 28	1100	1.0	APR. 16	1300	5.5	JULY 18	1200	24.0			
01162500 PRIEST BROOK NEAR WINCHENDON, MASS.											
DEC. 04	1000	1.0	JAN. 28	1230	0.0	APR. 16	1500	6.0	JULY 18	1600	24.5
DEC. 06	1600	0.5	MAR. 10	1130	0.5	JUNE 02	1630	21.0	SEP. 16	1200	11.0
01163200 OTTER RIVER AT OTTER RIVER, MASS.											
NOV. 12	1600	5.5	MAR. 10	1500	0.5	JUNE 05	1600	19.0	JULY 16	1600	24.5
DEC. 05	1600	1.5	APR. 21	1100	7.5	JUNE 13	0900	18.0	SEP. 12	1100	15.5
JAN. 16	1300	0.5									
01164000 MILLERS RIVER AT SOUTH ROYALSTON, MASS.											
JAN. 28	1530	3.0	APR. 29	0930	3.0	JUNE 12	0900	17.0	JULY 03	1200	22.0
MAR. 17	1100	2.0									
01165000 EAST BRANCH TULLY RIVER NEAR ATHOL, MASS.											
DEC. 03	1000	2.0	FEB. 07	1430	1.0	JUNE 05	1400	19.5	AUG. 18	1630	23.0
JAN. 16	1000	0.0	APR. 14	1630	5.0	JULY 01	1630	22.0			
01165300 LAKE ROHUNTA OUTLET NEAR ATHOL, MASS.											
NOV. 12	1000	6.5	FEB. 07	1300	0.5	MAY 12	1100	16.5	JULY 16	1100	24.5
DEC. 05	1500	1.5	MAR. 13	1600	1.0	MAY 13	0900	14.5	SEP. 29	1000	15.5
JAN. 16	1200	0.5	APR. 14	1400	6.0						
01165500 MOSS BROOK AT WENDELL DEPOT, MASS.											
NOV. 05	1600	8.0	FEB. 27	1030	1.0	JUNE 03	1530	14.0	SEP. 08	1130	13.0
DEC. 11	1530	0.0	APR. 14	1130	3.0	JULY 16	1430	23.5	SEP. 16	1430	10.5
JAN. 27	1600	2.0									
01166500 MILLERS RIVER AT ERVING, MASS.											
NOV. 12	1400	5.5	MAR. 12	1500	1.0	JUNE 05	1000	17.0	SEP. 17	1600	15.0
JAN. 27	1300	0.0	APR. 30	1200	6.5						
01167800 HEAVER BROOK AT WILMINGTON, VT.											
OCT. 02	1230	9.0	JAN. 15	1130	0.0	APR. 14	1230	1.5	JULY 17	1100	18.5
JAN. 08	1000	0.0	FEB. 03	1330	0.5	MAY 28	1100	14.5	AUG. 22	0930	16.0
01168151 DEERFIELD RIVER NEAR ROWE, MASS.											
OCT. 22	1600	6.5	MAR. 05	1400	1.5	APR. 25	1400	5.5	SEP. 04	1630	18.0
NOV. 10	1500	5.5									
01168500 DEERFIELD RIVER AT CHAPLEMONT, MASS.											
NOV. 19	1300	5.5	APR. 10	1400	2.0	JUNE 06	1400	15.0	JUNE 13	1230	18.0
01169000 NORTH RIVER AT SHATTUCKVILLE, MASS.											
NOV. 19	1600	4.5	APR. 07	1530	15.0	JULY 17	1600	24.0	SEP. 05	1030	15.0
FEB. 24	1100	0.0	JUNE 09	1500	11.0						

[illegible]

DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)	DATE	TIME	TEMPER- ATURE (DEG C)
CONNECTICUT RIVER BASIN--CONTINUED											
01176000 QUABOAG RIVER AT WEST BRIMFIELD, MASS.											
NOV. 20	1500	5.5	MAR. 04	1500	1.0	MAY 23	1400	21.0	AUG. 27	1000	21.0
FEB. 06	1200	1.0	APR. 15	1400	6.5	JULY 14	1500	23.5			
01177000 CHICOPEE RIVER AT INDIAN ORCHARD, MASS.											
MAY 30	0730	19.5	JULY 01	1220	23.0						
01179500 WESTFIELD RIVER AT KNIGHTVILLE, MASS.											
FEB. 12	1600	0.0	MAY 22	1430	21.0	JULY 09	1630	24.0	AUG. 19	1900	19.5
01180500 MIDDLE BRANCH WESTFIELD RIVER AT GOSS HEIGHTS, MASS.											
FEB. 12	1400	0.0	MAY 22	1330	21.5	JULY 09	1400	22.0	AUG. 19	1700	21.0
01181000 WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MASS.											
NOV. 25	1100	4.5	FEB. 20	1630	0.5	APR. 24	1100	6.5	AUG. 22	1400	23.0
DEC. 23	1130	0.5	MAR. 25	1500	3.5	MAY 22	1100	15.5	SEP. 23	1400	15.0
JAN. 24	1030	0.0	APR. 23	1600	6.5	JUNE 20	1330	21.0			
01180800 WALKER BROOK NEAR HECKET CENTER, MASS.											
FEB. 12	1100	0.0	JULY 03	1430	23.0	AUG. 08	1300	16.0	SEP. 18	1400	12.5
APR. 24	1600	8.0									
01183450 GREAT BROOK NEAR WESTFIELD, MASS.											
FEB. 13	1000	0.0	JUNE 11	1130	13.5	JULY 24	1700	25.5	SEP. 05	1300	18.5
APR. 23	1300	11.5									
01183500 WESTFIELD RIVER NEAR WESTFIELD, MASS.											
FEB. 21	0900	1.0	MAY 15	1300	13.0	JULY 03	1000	19.5	AUG. 20	1000	20.5
01185100 FALL RIVER BELOW OTIS RESERVOIR, NEAR OTIS, MASS.											
DEC. 04	1600	1.0	APR. 23	1700	9.0	JULY 30	1630	24.5	SEP. 18	1030	13.5
FEB. 11	1630	1.0	JUNE 12	1230	14.0						
01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MASS.											
DEC. 04	1500	0.5	JUNE 11	1530	19.5	JULY 24	1500	24.0	SEP. 17	1700	15.0
FEB. 11	1530	0.0									
HOUSATONIC RIVER BASIN											
01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MASS.											
FEB. 06	0930	1.0	JUNE 20	1130	14.0	AUG. 07	1430	21.0	SEP. 18	1700	13.5
JUNE 09	1230	17.5									
01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MASS.											
FEB. 06	1200	0.5	APR. 24	1600	6.5	JUNE 20	1000	21.0	AUG. 21	2000	22.0
MAR. 25	1130	4.0	MAY 21	1730	21.0	JULY 22	1200	23.0	SEP. 23	1100	16.0

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY

413949070164101. Local number Barnstable 230. U.S. Geol. Survey. Hyannis Airport, 50 ft (15.2 m) west of Mary Dunn Rd. Augured observation water-table well in sand and gravel of Pleistocene age, diam 1.25 in (3.2 cm), depth 35.8 ft (10.9 m), well point 32.8-35.8 ft (10-10.9 m). Lsd about 43 ft (13 m) above msl. MP top of casing, 0.7 ft (0.2 m) above lsd. Highest water level 21.05 ft (6.42 m) below lsd, May 12, 1973; lowest 26.22 ft (7.99 m) below lsd, Oct. 25, 1966. Temperature 9.5°C, Aug. 9, 1967. Records available: 1958-current year.

1973

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	21.20	21.74	21.98	21.74	21.12	21.35	21.80	21.76	22.37	22.60	22.84	23.18
10	21.27	21.81	22.08	21.22	21.09	21.46	21.90	21.87	22.48E	22.52	22.92	23.17
15	21.40	21.81	22.12	21.09	21.06E	21.55	21.97	22.01	22.59E	22.56	23.00	23.15
20	21.41	21.88	22.20	21.14	21.09E	21.67	21.95	22.05	22.66E	22.69	23.09	22.67
25	21.56	21.89	22.28	21.24	21.14	21.80	21.78	22.12	22.73E	22.78	23.16	22.19
EOM	21.67	21.93	22.19	21.20	21.23	21.82	21.73	22.24	22.80	22.79	23.15	22.08

1974

5	22.12	21.68	21.81	22.16	21.98E	22.20	22.54	23.31	23.96	24.32	24.67	24.98
10	22.16E	21.72	21.87	22.15	22.07	22.25	22.62	23.42	23.99	24.38	24.74	24.99
15	22.19E	21.76	21.90	21.96	22.00	22.34	22.73	23.52	24.06	24.43	24.80	25.00
20	22.21E	21.80	21.97	21.87E	22.08	22.38	22.85	23.64	24.14	24.45	24.85	24.99
25	22.20E	21.84	22.05	21.84	22.13	22.44	22.99	23.77	24.22	24.51	24.89	25.02
EOM	21.74	21.84	22.02	21.90E	22.15	22.48	23.17	23.90	24.27	24.61	24.96	25.07

1975

5	25.09	23.78	23.42	23.31	23.07	23.54	23.79	24.34	24.41	.....	.....	.....
10	24.96	23.71	23.32	23.25	23.16	23.59	23.86	24.25	24.47	.....	.....	.....
15	24.74	23.67	23.29	23.18	23.24	23.61	23.92	24.26	24.52	.....	.....	.....
20	24.32	23.64	23.28	23.11	23.28	23.61	23.99	24.33	24.55	.....	.....	.....
25	24.05	23.63	23.34	23.08	23.36	23.65	24.11	24.37	24.35	.....	.....	.....
EOM	23.90	23.56	23.33	23.05	23.45	23.72	24.21	24.40	24.10	.....	.....	.....

E, ESTIMATED.

414518070020301. Local number Brewster 21. Nook Rd., 0.1 mi (0.16 km) south from Cliff Pond at Nickerson State Park. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.5 in (6.4 cm), depth 25 ft (7.6 m), well point 22-25 ft (6.7-7.6 m). Lsd 36.69 ft (11.18 m) above msl. MP top of casing, 2.40 ft (0.73 m) above lsd. Highest water level 6.90 ft (2.10 m) below lsd, Apr. 25, 1974; lowest 13.34 ft (4.07 m) below lsd, Oct. 25, 1966. Temperature 8.5°C, Aug. 8, 1967. Records available: 1957-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	8.87	OCT. 29, 1973	7.59	JUNE 26, 1974	7.04	FEB. 25, 1975	9.13
FEB. 26	8.51	NOV. 28	7.60	JULY 30	7.48	MAR. 26	9.15
MAR. 27	8.31	DEC. 20	7.48	AUG. 28	7.87	APR. 29	9.10
APR. 26	7.82	JAN. 29, 1974	7.26	SEP. 26	8.21	MAY 28	9.26
MAY 25	7.37	FEB. 26	7.10	OCT. 29	8.63	JUNE 25	9.36
JUNE 27	7.28	MAR. 28	7.08	NOV. 26	8.90	JULY 23	9.65
JULY 27	7.12	APR. 25	6.90	DEC. 27	9.20	AUG. 26	9.88
AUG. 29	7.22	MAY 29	6.93	JAN. 29, 1975	9.17	SEP. 25	9.94
SEP. 27	7.45						

413449070322401. Local number Falmouth 5. Town of Falmouth. Route 28, near old pumping house. Driven observation water-table well in sand and gravel of Pleistocene age, diam 2.5 in (6.4 cm), depth 50 ft (15.2 m), casing information not available. Lsd about 8 ft (2.44 m) above msl. MP top of casing, at lsd. Highest water level 2.55 ft (0.78 m) below lsd, May 1, 1958; lowest 5.69 ft (1.73 m) below lsd, Dec. 31, 1974. Temperature 9°C, Aug. 9, 1967. Records available: 1950-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 29, 1973	3.27	OCT. 29, 1973	4.85	JUNE 27, 1974	4.60	FEB. 25, 1975	4.73
FEB. 27	3.74	NOV. 29	5.07	JULY 31	5.00	MAR. 26	4.48
MAR. 28	3.82	DEC. 20	4.36	AUG. 29	5.37	APR. 29	4.36
APR. 28	3.40	JAN. 29, 1974	4.09	SEP. 27	5.45	MAY 28	4.68
MAY 30	3.30	FEB. 27	3.72	OCT. 29	5.54	JUNE 25	4.78
JUNE 27	3.92	MAR. 29	3.62	NOV. 26	5.67	JULY 23	5.00
JULY 27	4.15	APR. 25	4.09	DEC. 30	5.69	AUG. 26	5.09
AUG. 29	4.50	MAY 30	4.03	JAN. 30, 1975	5.08	SEP. 25	4.83
SEP. 27	4.77						

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	9.93J	SEP. 12, 1973	11.10D	MAY 15, 1974	10.79D	JAN. 29, 1975	10.66
FEB. 2	10.43J	SEP. 27	10.95J	MAY 29	10.59	FEB. 19	10.73C
FEB. 26	10.18J	OCT. 17	10.91D	JUNE 26	10.62	FEB. 27	10.60
MAR. 14	10.51J	OCT. 29	10.84	JULY 10	10.93C	MAR. 24	10.62C
MAR. 27	10.06J	NOV. 20	10.76D	JULY 30	11.05	MAR. 26	10.55
APR. 13	10.10J	NOV. 28	10.78	AUG. 13	11.33C	APR. 24	10.61C
APR. 26	10.33J	DEC. 20	10.61	AUG. 28	11.23	APR. 29	10.62
MAY 14	10.54J	JAN. 2, 1974	10.60D	SEP. 16	10.98C	MAY 19	10.81C
MAY 15	10.53J	JAN. 29	10.40	SEP. 25	11.08	MAY 28	10.68
MAY 25	10.30J	JAN. 30	10.46D	OCT. 22	10.77D	JUNE 25	10.78
JUNE 13	10.62C	FEB. 21	10.56C	OCT. 29	10.90	JULY 22	11.02C
JUNE 27	10.81J	FEB. 26	10.63	NOV. 23	10.96D	JULY 23	11.13
JULY 17	10.75C	MAR. 13	10.64C	NOV. 26	11.26	AUG. 19	11.16C
JULY 27	10.90J	MAR. 28	10.81	DEC. 17	10.86C	AUG. 26	11.19
AUG. 14	11.03C	APR. 8	10.52D	DEC. 27	10.58	SEP. 25	11.09
AUG. 28	11.05J	APR. 25	10.51	JAN. 17, 1975	10.67D	SEP. 29	10.86

C. NEARBY WELL BEING PUMPED

D. NEARBY WELL PUMPED RECENTLY

J. NEARBY WELL EITHER BEING PUMPED OR PUMPED RECENTLY

4235030730754501. Local number Cheshire 2. John Jayko. Intersection of Wells and Jenks Rds. Dug unused water-table well in glacial till of Pleistocene age, diam 30 in (76 cm), depth 22 ft (6.7 m), cased with stone. Lsd about 1,210 ft (369 m) above msl. MP inside rim of west side of concrete well top, 1.0 ft (0.3 m) above lsd. Highest water level 0.09 ft (0.03 m) below lsd, Jan. 19, 1952; lowest 14.03 ft (4.28 m) below lsd, Nov. 20, 1964. Temperature 7°C, May 24, 1967. Records available: 1951-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	4.15	OCT. 30, 1973	9.56	JUNE 25, 1974	4.42	FEB. 29, 1975	1.79
FEB. 27	5.92	NOV. 29	8.25	JULY 26	6.18	MAR. 27	1.15
MAR. 28	1.57	DEC. 28	1.43	AUG. 26	8.61	APR. 29	2.13
APR. 25	3.77	JAN. 29, 1974	3.23	SEP. 25	4.59	MAY 29	4.88
MAY 30	1.61	FEB. 27	4.32	OCT. 29	5.24	JUNE 26	4.24
JUNE 28	4.67	MAR. 28	2.24	NOV. 27	2.86	JULY 24	2.67
JULY 26	5.84	APR. 26	2.24	DEC. 27	3.65	AUG. 28	5.00
AUG. 29	6.21	MAY 24	3.28	JAN. 29, 1975	1.60	SEP. 24	4.05
SEP. 27	8.14						

421316073212801. Local number Great Barrington 2. Patrick Spence. Route 41, 1.5 mi (2.4 km) north of Route 7. Dug unused water-table well in glacial drift of Pleistocene age, diam 36 in (91 cm), depth 15 ft (4.6 m), cased with stone. Lsd 732 ft (223 m) above ms1. MP top of stone curbing, east side of well at lsd. Highest water level 4.02 ft (1.23 m) below lsd, Feb. 12, 1970; lowest 14.97 ft (4.56 m) below lsd, Nov. 20, 1964. Temperature 9.5°C, July 27, 1967. Records available: 1951-current year. Water levels affected by stream.

1973												
DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	5.90	5.87	5.94	4.75	4.70	4.87	4.30	10.11	12.03	12.72	12.65	12.47
10	4.70	7.44	7.60	5.24	9.95	10.13	10.04	11.20	12.44	12.73	12.63	8.11
15	4.50	9.03	6.80	6.53	9.5 E	9.89	11.05	11.78	12.64	12.73	12.64	8.12
20	4.10	9.53	5.98	7.69	8.5 E	10.69	11.73	11.87	12.64	12.72	12.67	9.85E
25	7.11	9.24	6.85	4.77	7.5 E	11.02	12.05	12.44	12.69	12.71	12.68	8.00E
FORM	7.64	9.54	6.71	8.10	7.65	8.02	12.31	12.16	12.71	12.71	12.59	6.27
1974												
5	7.00	6.72	7.14	6.50	8.60	9.75	9.85	12.64	10.74	10.28	9.95	8.40
10	8.17	6.40	7.44	6.93	9.24	10.60	9.82	12.67	10.40	10.71	10.05	6.63
15	7.52	7.00	4.42	5.43	7.25	10.96	10.46	12.70	10.52	11.04	9.83	7.03
20	7.34	8.00	7.73	7.31	8.70	11.09	11.62	12.71	10.97	10.00	10.32	7.05
25	6.38	7.14	7.03	8.21	9.26	10.88	12.27	12.70	10.48	10.79	8.80	8.23
FORM	6.28	7.53	7.76	9.40	9.87	10.97	12.60	12.64	9.69	11.25	10.02	9.06
1975												
5	9.41	9.30	7.51	6.10	8.85	9.83	11.78	11.00	10.83	.....	.....	.....
10	9.88	9.85	7.70	7.02	8.60	9.62	12.24	7.68	11.38	.....	.....	.....
15	6.53	10.00	8.49	7.36	7.50	7.40	6.89	9.18	11.75	.....	.....	.....
20	7.67	9.63	7.56	7.73	8.73	9.60	8.25	10.30	12.13	.....	.....	.....
25	8.52	7.75	7.50	8.54	9.70	10.70	8.50	10.99	7.03	.....	.....	.....
FORM	7.60	7.60	7.60	9.30	10.61	11.25	10.29	10.07	7.55	.....	.....	.....

E, ESTIMATED

GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY

424841071004101. Local number Haverhill 23. Benjamin Hamm. Amesbury Line Rd., 0.9 m (1.45 km) south of Route 110. Dug unused water-table well in sand of Pleistocene age, diam 12 in (30 cm), depth 15.1 ft (4.6 m), cased with tile. Lsd about 105 ft (32 m) above msl. MP top of hole in base of wooden recorder shelter, 1.0 ft (0.3 m) above lsd. Highest water level 8.08 ft (2.46 m) below lsd, Apr. 19, 1961; lowest 15.02 ft (4.58 m) below lsd, Feb. 2, 1966. Temperature 10.5°C, Aug. 29, 1967. Records available: 1960-current year.

1973

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	9.83	9.30	10.66	8.52	8.98	9.78	11.38	12.61	13.55	14.09	14.20	14.46
10	10.06	9.53	10.74	8.27	9.23	10.08	11.63	12.79	13.66	14.16	14.29	14.31
15	10.29	9.81	10.79	8.43	9.44	10.38	11.87	12.97	13.76	14.22	14.37	14.04
20	10.26	10.08	10.72	8.70	9.56	10.72	12.10	13.11	13.84	14.29	14.43	13.24
25	9.77	10.28	10.69	8.96	9.22	11.03	12.27	13.27	13.93	14.36	14.49	12.82
EOM	9.98	10.45	10.82	8.88	9.50	11.28	12.48	13.44	14.01	14.28	14.45	12.52

1974

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	12.41	11.75	11.40	10.70	10.19	10.74	11.95	13.08	13.59	13.18	13.45	12.45
10	12.42	11.68	11.47	10.55	10.33	10.93	12.15	13.22	13.60	13.20	13.43	12.34
15	12.44	11.70	11.55	10.24	10.20	11.15	12.35	13.35	13.69	13.31	13.40	12.40
20	12.52	11.64	11.50	9.95	10.22	11.34	12.55	13.44	13.77	13.21	13.39	12.26
25	12.42	11.47	11.03	9.96	10.35	11.55	12.74	13.53	13.74	13.29	13.32	12.06
EOM	11.95	11.43	10.81	10.08	10.57	11.74	12.92	13.61	13.44	13.38	13.26	12.02

1975

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	12.05	10.76	10.34	9.84	10.34	11.80	12.79	13.44	13.71	.....	.....	.....
10	12.04	10.87	10.52	9.46	10.60	11.93	12.93	13.34	13.81	.....	.....	.....
15	11.62	11.01	10.66	9.54	10.84	12.10	13.05	13.46	13.87	.....	.....	.....
20	11.34	11.13	10.62	9.68	11.08	12.27	13.19	13.56	13.95	.....	.....	.....
25	11.14	10.50	10.25	9.89	11.32	12.45	13.16	13.67	13.84	.....	.....	.....
EOM	10.86	10.24	10.15	10.12	11.59	12.63	13.26	13.63	13.45	.....	.....	.....

425103070513401. Local number, Salisbury 9. Eugene G. Folsum. Intersection of Gerrish and Seabrook Rds. Dug unused water-table well in sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 11 ft (3.4 m), cased with tile. Lsd about 35 ft (11 m) above msl. MP top inside lip of casing, 1.60 ft (0.49 m) above lsd. Highest water level 3.06 ft (0.93 m) below lsd, Mar. 27, 1969; lowest 8.20 ft (2.50 m) below lsd, Sept. 25, 1964. Temperature 12°C, Aug. 29, 1967. Records available: 1960-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1973	3.85	OCT. 24, 1973	6.97	JUNE 24, 1974	5.44	FEB. 21, 1975	4.54
FEB. 21	4.81	NOV. 23	6.12	JULY 24	6.60	MAR. 24	4.00
MAR. 22	4.49	DEC. 20	3.79	AUG. 26	7.59	APR. 23	4.92
APR. 23	4.75	JAN. 22, 1974	4.46	SEP. 24	6.65	MAY 22	5.25
MAY 23	4.11	FEB. 21	4.27	OCT. 24	6.49	JUNE 23	5.44
JUNE 22	5.49	MAR. 25	4.12	NOV. 21	4.98	JULY 21	6.68
JULY 24	5.89	APR. 29	4.64	DEC. 23	4.27	AUG. 25	6.91
AUG. 23	6.15	MAY 23	5.06	JAN. 24, 1975	4.27	SEP. 23	6.59
SEP. 24	6.56						

FRANKLIN COUNTY

423305072320301. Local number Montague 5. Thomas C. Kurtyka. Montague Rd., 0.2 mi (0.32 km) north of Old Northfield Rd. Driven observation water-table well in glacial outwash of Pleistocene age, diam 1.25 in (3.2 cm), depth 12 ft (3.6 m), well point 9-12 ft (2.7-3.6 m). Lsd about 240 ft (73 m) above msl. MP top of casing, 1.75 ft (0.69 m) above lsd. Highest water level 0.78 ft (0.24 m) Apr. 27, 1944; dry July 29, 1957, Aug. 24, 1966. Temperature 5.5°C, Apr. 28, 1967. Records available: 1942-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	2.20	OCT. 30, 1973	2.38	JUNE 27, 1974	1.95	FEB. 27, 1975	1.90
FEB. 27	2.26	NOV. 29	2.31	JULY 30	3.01	MAR. 27	1.95
MAR. 28	1.44	DEC. 28	1.20	AUG. 28	3.49	APR. 29	2.11
APR. 25	1.20	JAN. 29, 1974	1.25	SEP. 27	2.87	MAY 29	2.91
MAY 30	0.92	FEB. 27	1.51	OCT. 31	2.93	JUNE 26	2.67
JUNE 28	1.21	MAR. 28	1.30	NOV. 27	2.80	JULY 24	2.56
JULY 26	1.85	APR. 26	1.46	DEC. 27	2.70	AUG. 28	3.10
AUG. 29	2.43	MAY 24	1.41	JAN. 30, 1975	2.20	SEP. 25	2.30
SEP. 27	2.49						

422605072435401. Local number Sunderland 7. Town of Sunderland. East side of Route 116 and north of Long Brook. Driven observation water-table well in glacial outwash of Pleistocene age, diam 2.5 in (6.4 cm), depth 54 ft (16.5 m), casing information not available. Lsd about 210 ft (64 m) above msl. MP top of casing, at lsd. Highest water level 6.85 ft (2.09 m) below lsd, Apr. 25, 1973; lowest 23.26 ft (7.09 m) below lsd, Feb. 24, 1966. Temperature 5°C, May 24, 1967. Records available: 1957-current year. Water levels affected by pumping and nearby Russellville Brook.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	8.17	OCT. 30, 1973	13.66	JUNE 27, 1974	10.91	FEB. 27, 1975	14.00
FEB. 27	8.24	NOV. 29	14.15	JULY 30	11.39	MAR. 27	10.56
MAR. 28	7.04	DEC. 28	13.10	AUG. 28	14.18	APR. 29	10.22
APR. 25	6.85	JAN. 29, 1974	13.04	SEP. 27	14.07	MAY 29	12.35
MAY 30	7.92	FEB. 27	12.30	OCT. 31	14.70	JUNE 26	9.87
JUNE 28	8.17	MAR. 28	11.92	NOV. 27	16.92	JULY 24	9.70
JULY 26	8.41	APR. 26	11.32	DEC. 27	17.40	AUG. 28	11.90
AUG. 29	9.00	MAY 24	10.85	JAN. 30, 1975	14.90	SEP. 25	11.58
SEP. 27	13.16						

HAMPDEN COUNTY

420646072420101. Local number Westfield 62. Western Massachusetts Hospital (Westfield State Sanatorium before 1962). East Mountain Rd., near Route 20. Driven unused water-table well in glacial outwash of Pleistocene age, diam 2.5 in (6.4 cm), depth 25 ft (7.6 m), casing information not available. Lsd about 210 ft (64 m) above msl. MP top of casing, 3.5 ft (1.1 m) above lsd. Highest water level 4.09 ft (1.25 m) below lsd, Apr. 30, 1958; lowest 11.18 ft (3.41 m) below lsd, Sept. 5, 1957. Temperature 10.5°C, Mar. 15, 1967. Records available: 1957-current year. Water levels affected by pumping.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 27, 1973	5.47	NOV. 28, 1973	8.87	JULY 29, 1974	8.10	MAR. 26, 1975	5.04
APR. 24	4.78	DEC. 27	5.86	SEP. 26	8.90	APR. 28	5.68
MAY 29	4.67	JAN. 28, 1974	5.55	OCT. 30	8.16	MAY 28	9.54
JUNE 27	6.00	FEB. 26	5.73	NOV. 26	9.01	JUNE 25	8.02
JULY 25	6.16	MAR. 27	5.42	DEC. 26	7.04	JULY 24	9.90
AUG. 28	7.12	APR. 25	5.35	JAN. 29, 1975	7.26	AUG. 27	7.68
SEP. 26	8.29	MAY 23	6.00	FEB. 26	5.25	SEP. 24	8.30
OCT. 29	8.84						

HAMPSHIRE COUNTY

421355072322001. Local number Granby 68. Holyoke Water Power Co. Morgan St., 0.3 mi (0.5 km) south of East St. Driven observation water-table well in glacial outwash of Pleistocene age, diam 1.25 in (3.2 cm), depth 18 ft (5.5 m), well point 16-18 ft (4.9-5.5 m). Lsd 239.17 ft (72.90 m) above msl. MP top of casing, at lsd. Highest water level 4.99 ft (1.52 m) below lsd, Aug. 22, 1955; lowest 11.17 ft (3.40 m) below lsd, Nov. 25, 1964. Temperature 9°C, July 31, 1967. Records available: 1954-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 29, 1973	6.23	OCT. 29, 1973	9.72	JUNE 26, 1974	7.74	FEB. 26, 1975	6.23
FEB. 26	6.53	NOV. 28	9.50	JULY 29	8.34	MAR. 26	5.71
MAR. 27	5.83	DEC. 21	7.34	AUG. 27	9.22	APR. 28	6.37
APR. 24	5.72	JAN. 28, 1974	6.54	SEP. 26	8.69	MAY 28	7.23
MAY 29	5.87	FEB. 26	6.32	OCT. 30	7.68	JUNE 25	7.68
JUNE 27	7.18	MAR. 27	5.95	NOV. 26	7.15	JULY 25	6.78
JULY 25	7.69	APR. 25	6.30	DEC. 26	6.93	AUG. 27	7.33
AUG. 28	8.57	MAY 23	6.62	JAN. 29, 1975	6.55	SEP. 24	7.93
SEP. 26	9.13						

MIDDLESEX COUNTY

422316071092501. Local number Cambridge 667. Cambridge Water Department. Blanchard Rd. and Concord Ave. Drilled unused water-table well in sand and gravel of Pleistocene age, diam 8.0 in (20 cm), depth 129 ft (39.2 m), casing information not available. Lsd 11.63 ft (3.54 m) above msl. MP top of casing, 0.39 ft (0.12 m) above lsd. Highest water level 5.14 ft (1.57 m) below lsd, Dec. 29, 1969; lowest 27.21 ft (8.29 m) below lsd, Dec. 27, 1965. Temperature 10.5°C, Aug. 28, 1967. Records available: 1945-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	6.74	OCT. 25, 1973	11.11	JUNE 25, 1974	6.16	FEB. 24, 1975	5.23
FEB. 22	6.24	NOV. 26	9.22	JULY 25	7.92	MAR. 28	6.10
MAR. 23	6.59	DEC. 20	6.24	AUG. 26	10.97	APR. 24	5.82
APR. 24	5.38	JAN. 23, 1974	5.41	SEP. 23	11.49	MAY 23	6.66
MAY 24	5.30	FEB. 22	6.16	OCT. 25	10.50	JUNE 24	7.72
JUNE 25	6.06	MAR. 26	6.37	NOV. 22	9.71	JULY 22	9.64
JULY 25	7.21	APR. 30	5.63	DEC. 24	7.38	AUG. 28	12.67
AUG. 24	8.22	MAY 24	6.29	JAN. 27, 1975	5.69	SEP. 26	13.23
SEP. 25	10.30						

GROUND-WATER LEVELS IN MASSACHUSETTS

423845071231401. Local number Chelmsford 68. Mrs. Harold Blackie. Middlesex St. and Groton Rd. Drilled unused water-table well in glacial outwash of Pleistocene age, diam 6.0 in (15 cm), depth 50 ft (15 m), cased 0-50 ft (0-15 m). Lsd 100.83 ft (30.73 m) above msl. MP top of hole in cap in casing, 1.40 ft (0.43 m) below lsd. Highest water level 5.25 ft (1.6 m) below lsd, Apr. 25, 1969; lowest 12.24 ft (3.73 m) below lsd, Sept. 28, 1957. Temperature 8.5°C, Aug. 28, 1967. Records available: 1939-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	6.93	OCT. 25, 1973	9.62	JUNE 25, 1974	8.81	FEB. 24, 1975	6.95
FEB. 22	7.33	NOV. 26	8.77	JULY 25	9.78	MAR. 28	6.79
MAR. 23	6.63	DEC. 20	7.30	AUG. 26	11.17	APR. 24	6.89
APR. 24	6.59	JAN. 23, 1974	7.45	SEP. 23	9.93	MAY 23	7.57
MAY 24	7.06	FEB. 22	7.84	OCT. 25	8.42	JUNE 24	8.54
JUNE 25	8.38	MAR. 26	7.56	NOV. 22	8.09	JULY 22	9.66
JULY 25	8.15	APR. 30	7.45	DEC. 24	7.13	AUG. 25	10.12
AUG. 24	9.41	MAY 24	7.89	JAN. 27, 1975	7.26	SEP. 23	10.06
SEP. 25	10.00						

423812071174801. Local number Lowell 14. YWCA. Rogers St. and Fort Hill Ave. Dug unused water-table well in glacial till of Pleistocene age, diam 24 in (61 cm), depth 30 ft (9.1 m), cased with stone. Lsd 157.78 ft (48.09 m) above msl. MP top edge of stone slab under wooden cover, 0.20 ft (0.06 m) below lsd. Highest water level 7.79 ft (2.37 m) below lsd, Mar. 27, 1958; lowest 19.79 ft (6.03 m) below lsd, Dec. 29, 1965. Temperature 14°C, Aug. 28, 1967. Records available: 1939-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	9.27	OCT. 25, 1973	15.63	JUNE 25, 1974	11.66	FEB. 24, 1975	11.22
FEB. 22	9.42	NOV. 26	16.25	JULY 25	13.38	MAR. 28	9.80
MAR. 23	9.29	DEC. 20	15.85	AUG. 26	15.00	APR. 24	9.54
APR. 24	8.85	JAN. 23, 1974	12.65	SEP. 23	15.64	MAY 23	10.62
MAY 24	9.26	FEB. 22	11.25	OCT. 25	14.69	JUNE 24	12.30
JUNE 25	11.09	MAR. 26	10.23	NOV. 22	14.39	JULY 22	13.72
JULY 25	11.67	APR. 30	9.74	DEC. 24	13.35	AUG. 25	15.09
AUG. 24	13.15	MAY 24	10.34	JAN. 27, 1975	11.44	SEP. 23	16.08
SEP. 25	14.57						

423329071122501. Local number Wilmington 10. L. Chisholm. Hopkins St., 0.3 mi (0.5 km) west of Shawheen Ave. Dug unused water-table well in glacial till of Pleistocene age, diam 36.0 in (91.4 cm), depth 9.0 ft (2.7 m), cased with stone. Lsd 113.63 ft (34.63 m) above msl. MP projecting stone in well 0.17 ft (0.05 m) above lsd. Highest water level 0.45 ft (0.14 m) below lsd, Feb. 27, 1968; lowest dry Sept. 27, 1941, Nov. 1, 1941, Oct. 30, 1957, Aug. 26, 1974. Temperature 13.5°C, Aug. 28, 1967. Records available: 1940-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1973	1.14	OCT. 24, 1973	5.72	JUNE 24, 1974	3.39	FEB. 21, 1975	6.93
FEB. 21	1.33	NOV. 23	3.95	JULY 24	5.35	MAR. 24	1.15
MAR. 22	1.44	DEC. 19	1.31	AUG. 26	F	APR. 23	1.51
APR. 23	1.47	JAN. 22, 1974	1.27	SEP. 24	6.57	MAY 22	2.45
MAY 23	1.44	FEB. 21	1.01	OCT. 24	3.84	JUNE 23	3.85
JUNE 22	3.36	MAR. 25	1.31	NOV. 21	3.17	JULY 21	5.01
JULY 24	3.14	APR. 29	1.87	DEC. 23	1.69	AUG. 25	5.77
AUG. 23	3.87	MAY 23	1.80	JAN. 24, 1975	1.44	SEP. 23	6.89
SEP. 24	4.63						

F, DRY

423401071093801. Local number Wilmington 78. Town of Wilmington. At Whitefield Public School off Route 62. Dug unused observation water-table well in sand and gravel of Pleistocene age, diam 42.0 in (106.7 cm), depth 12.0 ft (3.7 m), cased with stone. Lsd about 95 ft (29 m) above msl. MP hole in base of wooden recorder shelter. MP top of casing, 0.33 ft (0.10 m) above lsd. Highest water level 4.90 ft (1.50 m) below lsd, May 2, 1953; lowest 11.27 ft (3.44 m) below lsd, Oct. 30, 1957. Temperature 12°C, Aug. 28, 1967. Records available: 1951-current year.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	6.17	5.94	6.90	5.66	6.21	6.87	6.95	7.80	8.52	8.99	8.64	8.40
10	6.39	6.05	6.88	5.51	6.34	7.08	7.08	7.91	8.61	9.06	8.57	8.16
15	6.65	6.15	6.84	5.81	6.52	7.25	7.27	8.05	8.71	9.12	8.56	7.75
20	6.53	6.48	6.62	6.05	6.40	7.44	7.49	8.15	8.74	9.18	8.60	6.84
25	6.46	6.67	6.65	6.26	6.41	7.57	7.62	8.30	8.83	9.24	8.62	6.60
EOM	6.57	6.77	6.78	6.02	6.64	7.14	7.71	8.25	8.91	8.85	8.50	6.37
1974												
5	6.47	6.50	6.72	6.55	6.92	7.17	8.10	9.08	9.76	8.67	8.39	7.73
10	6.68	6.72	6.90	6.52	6.84	7.28	8.24	9.24	9.71	8.63	8.39	7.52
15	6.86	6.89	7.08	6.34	6.64	7.45	8.40	9.38	9.74	8.72	8.41	7.51
20	7.05	6.54	7.02	6.42	6.75	7.62	8.57	9.51	9.80	8.42	8.44	7.33
25	6.84	6.55	6.49	6.64	6.91	7.78	8.75	9.63	9.46	8.31	8.37	7.31
EOM	6.40	6.57	6.50	6.76	7.11	7.93	8.87	9.74	8.94	8.38	8.41	7.52
1975												
5	7.59	6.82	6.61	6.22	7.13	7.85	8.37	9.14	8.98	.....	.....	.....
10	7.32	7.00	6.80	6.10	7.32	7.88	8.55	8.80	9.09	.....	.....	.....
15	6.76	7.18	3.87	6.37	7.26	7.89	8.68	8.74	9.14	.....	.....	.....
20	6.59	7.23	6.64	6.57	7.35	7.95	8.82	8.85	9.19	.....	.....	.....
25	6.46	6.72	6.44	6.76	7.52	8.05	8.87	9.00	8.82	.....	.....	.....
EOM	6.64	6.61	6.45	6.96	7.71	8.20	9.03	8.88	8.21	.....	.....	.....

NORFOLK COUNTY

421435071165701. Local number Dover 10. U.S. Geol. Survey. Springdale Ave., at Dover Public School. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.0 in (5.1 cm), depth 54 ft (16.5 m), well point 52-54 ft (15.8-16.5 m). Lsd about 160 ft (48.8 m) above ms1. MP top of casing, 3 ft (0.9 m) above lsd. Highest water level 30.25 ft (9.22 m) below lsd, Feb. 20, 1970; lowest 36.87 ft (11.24 m) below lsd, Jan. 21, 1966. Temperature 9°C, July 26, 1967. Records available: 1965-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	31.12	OCT. 26, 1973	34.30	JUNE 25, 1974	32.48	FEB. 24, 1975	32.20
FEB. 23	31.12	NOV. 27	34.75	JULY 26	33.23	MAR. 25	31.80
MAR. 26	31.88	DEC. 21	34.60	AUG. 26	34.04	APR. 28	31.65
APR. 23	31.59	JAN. 24, 1974	33.17	SEP. 25	34.55	MAY 27	32.34
MAY 24	32.00	FEB. 25	32.20	OCT. 24	34.40	JUNE 24	33.00
JUNE 26	32.58	MAR. 26	31.58	NOV. 22	34.39	JULY 22	33.65
JULY 27	32.82	APR. 29	31.18	DEC. 30	33.63	AUG. 25	34.18
AUG. 27	33.20	MAY 22	31.60	JAN. 27, 1975	32.33	SEP. 26	34.56
SEP. 25	33.73						

420432071151201. Local number Foxborough 3. U.S. Geol. Survey. Foxborough State Hospital, near railroad tracks. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.0 in (5.1 cm), depth 32 ft (9.8 m), well point 30-32 ft (9.2-9.8 m). Lsd about 290 ft (88 m) above ms1. MP top of casing, 3 ft (0.9 m) above lsd. Highest water level 16.24 ft (4.95 m) below lsd, Mar. 25, 1968; lowest 21.42 ft (6.53 m) below lsd, Dec. 28, 1965. Temperature 9.5°C, Aug. 18, 1967. Records available: 1965-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	18.03	OCT. 26, 1973	20.38	JUNE 28, 1974	19.14	FEB. 24, 1975	18.56
FEB. 23	18.08	NOV. 27	20.45	JULY 29	19.85	MAR. 25	18.17
MAR. 26	18.47	DEC. 18	19.00	AUG. 27	20.52	APR. 28	18.28
APR. 25	18.15	JAN. 30, 1974	18.09	SEP. 25	20.52	MAY 27	18.96
MAY 29	18.33	FEB. 25	18.03	OCT. 24	20.09	JUNE 24	19.30
JUNE 26	18.94	MAR. 27	17.70	NOV. 22	20.18	JULY 22	18.95
JULY 26	19.14	APR. 24	17.76	DEC. 27	19.18	AUG. 25	20.51
AUG. 27	19.63	MAY 28	18.61	JAN. 27, 1975	18.32	SEP. 26	20.36
SEP. 26	19.96						

420954070564501. Local number Weymouth 2. U.S. Geol. Survey. U.S. Naval Air Station, near the main gate. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.0 in (5.1 cm), depth 30.0 ft (9.1 m), well point 28-30 ft (8.5-9.1 m). Lsd about 180 ft (55 m) above ms1. MP top of casing, 3.0 ft (0.9 m) above lsd. Highest water level 5.59 ft (1.70 m) below lsd, Mar. 26, 1969; lowest 22.06 ft (6.72 m) below lsd, Nov. 22, 1965. Temperature 10°C, Aug. 15, 1967. Records available: 1965-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	7.09	OCT. 26, 1973	15.32	JUNE 28, 1974	11.32	FEB. 27, 1975	6.95
FEB. 23	8.04	NOV. 27	15.08	JULY 29	14.22	MAR. 27	7.50
MAR. 26	8.27	DEC. 21	8.62	AUG. 27	16.94	APR. 29	8.96
APR. 25	7.60	JAN. 29, 1974	6.70	SEP. 25	16.07	MAY 29	10.45
MAY 29	8.50	FEB. 25	6.79	OCT. 25	13.44	JUNE 24	11.83
JUNE 26	10.74	MAR. 27	7.26	NOV. 25	13.69	JULY 22	14.51
JULY 26	10.20	APR. 26	7.45	DEC. 31	11.33	AUG. 25	15.18
AUG. 27	12.28	MAY 28	9.70	JAN. 30, 1975	7.89	SEP. 26	16.54
SEP. 26	13.61						

PLYMOUTH COUNTY

415228070554601. Local number Lakeville 14. U.S. Geol. Survey. Route 105. Lakeville State Hospital, 30 ft (9 m) west of parking lot. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.0 in (5.1 cm), depth 41 ft (12.5 m), well point 39-41 ft (11.9-12.5 m). Lsd about 105 ft (32 m) above ms1. MP top of casing, 1.5 ft (0.5 m) above lsd. Highest water level 10.05 ft (3.06 m) below lsd, Jan. 4, 1973; lowest 23.59 ft (7.19 m) below lsd, Oct. 26, 1966. Temperature 9°C, Aug. 16, 1967. Records available: 1964-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	7.09	OCT. 26, 1973	15.32	JUNE 28, 1974	11.32	FEB. 27, 1975	6.95						
FEB. 23	8.04	NOV. 27	15.08	JULY 29	14.22	MAR. 27	7.50						
MAR. 26	8.27	DEC. 21	8.62	AUG. 27	16.94	APR. 29	8.96						
APR. 25	7.60	JAN. 29, 1974	6.70	SEP. 25	16.07	MAY 29	10.45						
MAY 29	8.50	FEB. 25	6.79	OCT. 25	13.44	JUNE 24	11.83						
JUNE 26	10.74	MAR. 27	7.26	NOV. 25	13.69	JULY 22	14.51						
JULY 26	10.20	APR. 26	7.45	DEC. 31	11.33	AUG. 25	15.18						
AUG. 27	12.28	MAY 28	9.70	JAN. 30, 1975	7.89	SEP. 26	16.54						
SEP. 26	13.61												
1973													
MAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
5	16.10	10.54	11.30	11.00	16.71	11.86	12.94	13.44	14.83	14.25	15.28	15.31	
10	10.42	10.47	11.24	10.56	11.20F	12.15	12.80	13.71	14.35	14.63	15.33	15.17	
15	10.87	10.43	11.23	10.73	11.47E	12.50	12.90	14.01	14.17	14.75	15.38	14.89	
20	11.18	10.46F	11.47	11.07	11.55E	12.85	12.77	14.20	14.13	14.41	15.50	13.76	
25	11.54	10.80F	11.63	11.32	11.60E	13.15	12.90	14.37	14.18	15.05	15.55	13.56	
FOM	11.53	11.03	11.71	10.83	11.59	13.36	13.21	14.63	14.26	15.21	15.63	12.88	
1974													
5	13.23	10.74	11.05	11.15	11.74	12.94	14.16	15.75	17.34	18.24	18.77	19.14	
10	12.10	11.20	11.33	10.80	11.97	13.13	14.44	16.03	17.50	18.37	18.86	18.96	
15	12.17	11.50	11.68	10.87	12.11	13.41	14.63	16.33	17.65	18.50	18.93	18.89	
20	11.68	11.51	11.69	10.96	12.25	13.68	14.90	16.62	17.82	18.59	19.00	18.82	
25	11.14	11.17	11.00	11.13	12.41	13.86	15.14	16.88	17.96	18.64	19.08	18.71	
FOM	10.64	10.96	10.89	11.41	12.72	14.01	15.45	17.15	18.10	18.71	19.14	18.62	
1975													
5	14.58	18.19	15.49	14.29	14.19	14.89	15.73	17.01	18.02	.....	.....	.....	
10	14.43	18.10	15.26	13.94	14.35	15.03	15.96	17.18	18.20	.....	.....	.....	
15	18.03	16.07	15.15	13.85	14.47	15.17	16.17	17.34	18.38	.....	.....	.....	
20	17.46	16.07	15.05	13.85	14.58	15.27	16.32	17.50	18.54	.....	.....	.....	
25	16.91	16.00	14.76	13.97	14.71	15.40	16.55	17.61	18.66	.....	.....	.....	
FOM	16.49	15.71	14.50	14.13	14.80	15.53	16.80	17.84	18.36	.....	.....	.....	

E. ESTIMATED

GROUND-WATER LEVELS IN MASSACHUSETTS

415453070434901. Local number Plymouth 22. U.S. Geol. Survey. Plymouth Airport, 10 ft (3 m) from northeast corner of main building. Driven observation water-table well in sand and gravel of Pleistocene age, diam 1.25 in (3.2 cm), depth 42 ft (12.8 m), well point 40-42 ft (12.2-12.8 m). Lsd about 145 ft (44 m) above msl. MP top of casing, at lsd. Highest water level 19.82 ft (6.04 m) below lsd, May 26, 1958; lowest 28.99 ft (8.84 m) below lsd, Jan. 28, 1966. Temperature 9.5°C, Aug. 25, 1967. Records available: 1956-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 29, 1973	20.55	OCT. 30, 1973	23.55	JUNE 27, 1974	22.55	FEB. 27, 1975	24.92
FEB. 27	20.70	NOV. 29	24.25	JULY 31	23.30	MAR. 27	24.65
MAR. 28	21.06	DEC. 21	23.50	AUG. 28	23.93	APR. 29	24.17
APR. 28	20.87	JAN. 29, 1974	21.82	SEP. 27	24.53	MAY 29	24.35
MAY 30	21.05	FEB. 27	21.74	OCT. 29	25.10	JUNE 24	24.50
JUNE 28	21.48	MAR. 29	21.93	NOV. 27	25.52	JULY 22	24.47
JULY 30	21.96	APR. 26	21.75	DEC. 30	26.13	AUG. 25	24.97
AUG. 29	22.67	MAY 30	22.06	JAN. 28, 1975	25.37	SEP. 26	25.07
SEP. 28	23.04						

WORCESTER COUNTY

420610071421401. Local number Northbridge 1. U.S. Geol. Survey. Intersection east side of Route 146 and north side of Main St. Augured observation water-table well in sand and gravel of Pleistocene age, diam 2.0 in (5.1 cm), depth 12 ft (3.7 m), well point 10-12 ft (3.0-3.6 m). Lsd about 370 ft (113 m) above msl. MP top of casing, 2 ft (0.6 m) above lsd. Highest water level 2.05 ft (0.62 m) below lsd, Mar. 27, 1972; lowest 4.75 (1.45 m) below lsd, Nov. 22, 1965. Temperature 10°C, July 31, 1967. Records available: 1965-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	2.52	OCT. 26, 1973	3.57	JUNE 25, 1974	2.87	FEB. 25, 1975	2.41
FEB. 23	2.57	NOV. 27	3.48	JULY 26	3.19	MAR. 25	2.55
MAR. 26	2.62	DEC. 19	2.57	AUG. 26	3.54	APR. 25	2.72
APR. 23	2.58	JAN. 24, 1974	2.66	SEP. 25	3.29	MAY 27	2.92
MAY 24	2.59	FEB. 25	2.45	OCT. 29	3.08	JUNE 27	3.08
JUNE 26	2.82	MAR. 26	2.32	NOV. 25	3.25	JULY 25	3.36
JULY 27	2.88	APR. 29	2.56	DEC. 30	3.15	AUG. 26	3.64
AUG. 27	3.18	MAY 22	2.63	JAN. 28, 1975	2.54	SEP. 26	3.20
SEP. 25	3.30						

422805071480801. Local number Sterling 1. N. Lanciani. Justice Hill Rd., 0.8 mi (1.3 km) west of South Nelson Rd. Dug unused water-table well in glacial till of Pleistocene age, diam 24 in (61 cm), depth 15 ft (4.5 m) cased with stone. Lsd about 710 ft (220 m) above msl. MP top edge of angle iron, at lsd. Highest water level 1.66 ft (0.51 m) below lsd, Mar. 26, 1969; lowest dry, Nov. 28, 1964. Temperature 9°C, July 26, 1967. Records available: 1947-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	2.74	OCT. 26, 1973	12.14	JUNE 27, 1974	3.29	FEB. 25, 1975	2.12
FEB. 23	2.87	NOV. 27	9.66	JULY 26	7.10	MAR. 25	3.07
MAR. 26	2.70	DEC. 21	3.00	AUG. 28	11.20	APR. 25	3.20
APR. 23	3.07	JAN. 24, 1974	2.95	SEP. 27	10.35	MAY 27	4.75
MAY 24	2.86	FEB. 25	3.00	OCT. 31	5.66	JUNE 27	5.59
JUNE 26	4.59	MAR. 26	3.02	NOV. 25	3.18	JULY 24	6.74
JULY 27	5.56	APR. 29	3.08	DEC. 30	3.19	AUG. 26	9.53
AUG. 27	8.75	MAY 22	3.23	JAN. 28, 1975	3.13	SEP. 26	9.17
SEP. 25	10.75						

421410072081301. Local number West Brookfield 2. U.S. Geol. Survey. Intersection of Routes 9 and 67. Augured observation water-table well in sand and gravel of Pleistocene age, diam 1.25 in (3.2 cm), depth 43.0 ft (13.1 m), well point 40-43 ft (12.2-13.1 m). Lsd about 630 ft (192 m) above msl. MP top of casing, 1.0 ft (0.3 m) above lsd. Highest water level 17.17 ft (5.23 m) below lsd, Apr. 24, 1973; lowest 23.63 ft (7.20 m) below lsd, Feb. 21, 1966. Temperature 9.5°C, July 31, 1967. Records available: 1959-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 29, 1973	17.73	OCT. 29, 1973	19.12	JUNE 25, 1974	18.17	FEB. 25, 1975	18.20
FEB. 26	17.60	NOV. 28	19.44	JULY 29	18.63	MAR. 25	18.15
MAR. 27	17.61	DEC. 27	18.97	AUG. 26	19.09	APR. 25	17.96
APR. 24	17.17	JAN. 24, 1974	18.47	SEP. 25	19.21	MAY 27	18.26
MAY 29	17.30	FEB. 26	18.14	OCT. 29	19.00	JUNE 27	18.63
JUNE 27	17.62	MAR. 27	18.02	NOV. 25	19.05	JULY 25	18.91
JULY 25	17.78	APR. 25	17.75	DEC. 30	18.62	AUG. 26	19.36
AUG. 28	18.16	MAY 23	17.72	JAN. 28, 1975	18.33	SEP. 26	19.58
SEP. 26	18.62						

423430072015201. Local number Winchendon 13. W. B. Hart. Forristall Rd., 0.2 mi (0.31 km) north of Elmwood Rd. Dug unused water-table well in glacial till of Pleistocene age, diam. 24.0 in (61 cm), depth 12.0 ft (3.7 m), cased with stone. Lsd 1,209.36 ft (368.61 m) above msl. MP top of extension pipe, 3.8 ft (1.2 m) above lsd. Highest water level 1.86 ft (0.57 m) below lsd, Mar. 20, 1948; lowest 13.36 ft (4.07 m) below lsd, Dec. 24, 1964. Temperature 5°C, Apr. 28, 1967. Records available: 1939-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	3.56	OCT. 30, 1973	11.72	JUNE 27, 1974	6.51	FEB. 27, 1975	2.49
FEB. 27	5.27	NOV. 29	10.29	JULY 30	9.24	MAR. 27	3.18
MAR. 28	3.45	DEC. 28	2.57	AUG. 28	10.97	APR. 29	4.37
APR. 25	4.44	JAN. 29, 1974	2.78	SEP. 27	9.08	MAY 29	6.02
MAY 30	3.88	FEB. 27	3.82	OCT. 31	7.80	JUNE 26	6.22
JUNE 28	5.07	MAR. 28	3.51	NOV. 27	5.10	JULY 24	6.72
JULY 26	6.37	APR. 25	3.94	DEC. 27	4.68	AUG. 28	8.44
AUG. 29	8.69	MAY 24	4.29	JAN. 30, 1975	3.96	SEP. 25	7.65
SEP. 27	10.61						

KENT COUNTY

414022071332801. Local number Cov 411. Robert Card. Powhattan Ave., near Washington. Dug water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 26 ft (8 m), cased with concrete. Lsd about 260 ft (79 m) above msl. MP hole in top of wooden cover, 1.98 ft (0.60 m) above lsd. Highest water level 18.50 ft (5.64 m) below lsd, Dec. 27, 1972; lowest 23.73 ft (7.23 m) below lsd, Jan. 29, 1966. Records available: 1961-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	19.53	OCT. 27, 1973	22.21	JUNE 22, 1974	21.52	FEB. 22, 1975	20.38
FEB. 23	19.49	NOV. 24	22.34	JULY 27	21.92	MAR. 22	20.20
MAR. 24	20.34	DEC. 27	20.45	AUG. 24	22.31	APR. 26	20.04
APR. 24	19.28	JAN. 26, 1974	20.28	SEP. 28	22.54	MAY 24	20.95
MAY 26	19.72	FEB. 23	20.10	OCT. 26	22.28	JUNE 26	21.25
JUNE 23	20.60	MAR. 23	20.17	NOV. 23	22.35	JULY 30	21.74
JULY 29	21.26	APR. 27	19.74	DEC. 27	21.18	AUG. 23	21.85
AUG. 27	21.48	MAY 25	20.79	JAN. 25, 1975	20.18	SEP. 27	22.32
SEP. 22	21.93						

413907071465001. Local number Wgr 181. E. Lambert. Hazard Rd. Near West Greenwich Center. Dug water-table well in sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 18.5 ft (5.6 m), lined with stone. Lsd about 380 ft (116 m) above msl. MP edge of shelter floor 2.19 ft (0.67 m) above lsd. Highest water level 13.36 ft (4.07 m) below lsd, Dec. 29, 1969; lowest 17.68 ft (5.39 m) below lsd, Sept. 28, 1974. Records available: 1969-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	15.86	SEP. 22, 1973	16.74	JULY 27, 1974	16.98	MAR. 22, 1975	14.99
FEB. 23	15.36	OCT. 27	17.05	AUG. 24	17.29	APR. 26	14.83
MAR. 24	15.63	NOV. 23	16.83	SEP. 28	17.68	MAY 24	16.26
APR. 21	15.16	DEC. 27	13.92	OCT. 26	16.14	JUNE 21	16.60
MAY 26	15.82	MAR. 23, 1974	14.36	NOV. 23	16.68	JULY 30	16.57
JUNE 23	16.61	APR. 27	15.77	DEC. 27	15.45	AUG. 23	16.79
JULY 29	16.91	MAY 25	15.94	JAN. 25, 1975	14.90	SEP. 27	16.19
AUG. 27	16.43	JUNE 22	16.81	FEB. 22	16.04		

PROVIDENCE COUNTY

415710071402201. Local number Eur 187. Brothers of the Sacred Heart. Harrisville Rd. Near Harrisville. Dug water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 19.8 ft (6.0 m), lined with stone. Lsd about 462 ft (141 m) above msl. MP hole in base of shelter 0.59 ft (0.18 m) above lsd. Highest water level 12.18 ft (3.71 m) Dec. 27, 1972; lowest 18.77 ft (5.72 m) below lsd, Oct. 24, 1970. Records available: 1968-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	13.04	NOV. 23, 1973	16.94	AUG. 24, 1974	17.15	MAR. 22, 1975	13.88
FEB. 23	13.40	DEC. 27	14.89	SEP. 28	17.54	APR. 26	14.20
MAR. 24	13.69	MAR. 23, 1974	13.13	OCT. 26	16.00	MAY 24	14.70
APR. 21	13.30	APR. 27	12.42	NOV. 23	16.07	JUNE 21	15.42
JULY 30	15.54	MAY 25	12.91	DEC. 27	15.00	JULY 30	16.76
AUG. 27	16.53	JUNE 22	14.00	JAN. 25, 1975	14.13	AUG. 23	17.51
SEP. 22	17.06	JULY 27	15.64	FEB. 22	14.98	SEP. 27	18.03
OCT. 27	17.56						

415626071254601. Local number Cum 265. Matthew J. Partridge. 27 Scott Rd., near Ashton. Dug water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 20 ft (6 m), lined with stone. Lsd about 130 ft (40 m) above msl. MP hole in wooden cover, 0.06 ft (0.02 m) above lsd. Highest water level 9.60 ft (2.93 m) below lsd, Mar. 26, 1969; lowest 17.20 ft (5.24 m) below lsd, Sept. 29, 1949. Records available: 1946-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	12.16	OCT. 27, 1973	14.499	JUNE 22, 1974	13.57	FEB. 22, 1975	12.14
FEB. 23	11.90	NOV. 23	12.722	JULY 27	15.15	MAR. 22	11.25
MAR. 24	11.97	DEC. 27	10.14	AUG. 24	15.96	APR. 26	12.24
APR. 24	11.58	JAN. 26, 1974	11.00	SEP. 28	13.37	MAY 24	12.83
MAY 26	11.81	FEB. 23	11.53	OCT. 26	12.12	JUNE 21	12.59
JUNE 23	12.94	MAR. 23	11.04	NOV. 23	12.16	JULY 30	14.65
JULY 30	12.97	APR. 27	11.82	DEC. 27	10.98	AUG. 23	15.25
AUG. 27	13.81	MAY 25	12.39	JAN. 25, 1975	10.82	SEP. 27	12.79
SEP. 22	13.94						

GROUND-WATER LEVELS IN RHODE ISLAND

415437071242201. Local number Lin 84. Maplehurst Farm, Inc. Between Blackstone River and Front St., Lonsdale. Drilled water-table well in sand and gravel of Pleistocene age, diam 8 in (20 cm), depth 107 ft (33 m), open bottom. Lsd about 60 ft (18 m) above msl. MP inside lower lip of 8-in (20 cm) pipe, 3.32 ft (1.01 m) above lsd. Highest water level 0.02 ft (0.01 m) above lsd, Mar. 26, 1969; lowest 7.30 ft (2.23 m) below lsd, Aug. 24, 1966. Records available: 1946-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	4.27J	OCT. 27, 1973	5.73J	JUNE 22, 1974	5.24J	FEB. 22, 1975	4.32J
FEB. 23	4.91J	NOV. 23	5.86J	JULY 27	6.15J	MAR. 22	2.22J
MAR. 24	5.15J	DEC. 27	2.65J	AUG. 24	6.53J	APR. 26	4.10J
APR. 24	5.04J	JAN. 26, 1974	3.33J	SEP. 28	6.72J	MAY 24	5.01J
MAY 26	4.63J	FEB. 23	2.24J	OCT. 26	5.36J	JUNE 21	5.33J
JUNE 23	5.25J	MAR. 23	1.47J	NOV. 23	5.21J	JULY 30	5.98J
JULY 30	5.10J	APR. 27	3.56J	DEC. 27	4.73J	AUG. 23	5.90J
AUG. 27	5.47J	MAY 25	4.55J	JAN. 25, 1975	3.28J	SEP. 27	3.95J
SEP. 22	5.43J						

J, NEARBY WELL EITHER BEING PUMPED OR PUMPED RECENTLY.

415948071325001. Local number Nsm 21. Thomas E. Esty. State Highway 146, near Branch Village. Dug domestic water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 16 ft (5 m), cased with tile, open bottom. Lsd 238.68 ft (72.75 m) above msl. MP hole in wooden cover at top of tile casing, 2.08 ft (0.63 m) below lsd. Highest water level 3.67 ft (1.12 m) below lsd, Mar. 26, 1969; lowest 11.71 ft (3.57 m) below lsd, Oct. 28, 1957. Records available: 1947-current year. Water levels affected by pumping.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	6.93J	OCT. 27, 1973	9.89J	JUNE 22, 1974	8.29J	FEB. 22, 1975	6.87J
FEB. 23	6.66J	NOV. 23	9.00J	JULY 27	9.28J	MAR. 22	5.71J
MAR. 24	6.86J	DEC. 27	7.41J	AUG. 24	9.89J	APR. 26	6.33J
APR. 24	6.25J	JAN. 26, 1974	5.93J	SEP. 28	10.18J	MAY 24	7.79J
MAY 26	6.90J	FEB. 23	5.98J	OCT. 26	7.68J	JUNE 21	8.40J
JUNE 23	7.47J	MAR. 23	4.89J	NOV. 23	7.87J	JULY 30	9.39J
JULY 30	8.52J	APR. 27	6.26J	DEC. 27	6.99J	AUG. 23	9.79J
AUG. 27	9.11J	MAY 25	6.60J	JAN. 25, 1975	6.28J	SEP. 27	9.44J
SEP. 22	9.08J						

J, WELL EITHER BEING PUMPED OR PUMPED RECENTLY.

415318071220401. Local number Paw 136. Greenhalgh Mills, Inc. 314 Woodbine St., Pawtucket. Drilled water-table well in gravel of Pleistocene age, diam 2 in (5.1 cm), depth 43 ft (13 m), cased to 40 ft (12 m), screened about 40-43 ft (12-13 m). Lsd about 86 ft (26 m) above msl. MP top of casing, 3.15 ft (0.96 m) above lsd. Highest water level 2.32 ft (0.71 m) below lsd, Dec. 27, 1972, Dec. 27, 1973; lowest 7.28 ft (2.22 m) below lsd, Jan. 29, 1966. Records available: 1962-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	2.74	OCT. 28, 1973	4.17	JUNE 22, 1974	4.19	FEB. 22, 1975	4.23
FEB. 23	2.74	NOV. 25	3.24	JULY 27	4.84	MAR. 22	3.88
MAR. 24	3.39	DEC. 27	2.32	AUG. 24	6.11	APR. 26	4.04
APR. 24	3.00	JAN. 26, 1974	3.40	SEP. 28	6.62	MAY 24	4.27
MAY 26	3.30	FEB. 23	3.40	OCT. 26	5.07	JUNE 21	4.39
JUNE 23	3.64	MAR. 23	3.29	NOV. 23	5.36	JULY 30	4.94
JULY 30	4.53	APR. 27	3.22	DEC. 27	4.94	AUG. 23	5.20
AUG. 24	3.92	MAY 25	3.69	JAN. 25, 1975	4.19	SEP. 27	4.70
SEP. 23	3.67						

414746071255601. Local number Pro 48. Gorham Manufacturing Co. 333 Adelaide Ave., Providence. Drilled artesian well in sand and gravel of Pleistocene age, diam 8 in (20 cm), depth 124 ft (38 m), cased to 116 ft (35 m), screened 116-124 ft (35-38 m). Lsd 45.79 ft (13.96 m) above msl. MP top edge of hole in center of steel cover, 0.48 ft (0.15 m) below lsd. Highest water level 5.08 ft (1.55 m) below lsd, May 3, 1953 (previously published as Apr. 20, May 4, 1953); lowest 10.22 ft (3.12 m) below lsd, Oct. 20, 1947. Records available: 1944-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	6.07J	SEP. 22, 1973	7.09J	MAY 28, 1974	6.88	MAR. 22, 1975	7.06
FEB. 23	5.79J	OCT. 27	7.29J	JUNE 22	6.94	APR. 26	7.06
MAR. 24	6.28J	NOV. 23	7.48J	JULY 27	7.30	MAY 24	7.13
APR. 24	6.27J	DEC. 27	7.05J	AUG. 24	8.22	JUNE 21	7.19
MAY 26	5.17J	JAN. 26, 1974	7.05	DEC. 27	7.64	JULY 30	7.55
JUNE 23	6.47J	FEB. 23	6.93	JAN. 25, 1975	7.20	AUG. 23	7.70
JULY 30	6.74J	MAR. 23	6.78	FEB. 22	7.26	SEP. 27	7.29
AUG. 27	6.92J	APR. 27	6.88				

J, WELL OR WELLS NEARBY EITHER BEING PUMPED OR PUMPED RECENTLY.

414939071260801. Local number Pro 1051. Licht Industries. 10 Eagle St., Providence. Drilled water-table well in sand and gravel of Pleistocene age, diam 10 in (25 cm), depth 82 ft (25 m), cased to 82 ft (25 m), open bottom. Lsd about 10 ft (3 m) above ms1. MP floor of recorder shelter, 1.65 ft (0.50 m) above lsd. Highest water level 1.17 ft (0.36 m) below lsd, Sept. 2, 1954; lowest 16.10 ft (4.91 m) below lsd, Jan. 16, 1948. Records available: 1948-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	6.07J	SEP. 13, 1973	5.28J	JUNE 29, 1974	4.41J	FEB. 8, 1975	3.36J
FEB. 2	5.54J	OCT. 20	5.70J	JULY 4	4.22J	MAR. 22	3.22J
MAR. 16	5.25J	NOV. 3	5.61J	AUG. 31	4.39J	APR. 30	2.98J
APR. 1	5.25J	DEC. 7	4.94J	SEP. 28	4.43J	MAY 1	3.02J
MAY 3	4.90J	JAN. 18, 1974	4.19J	OCT. 5	4.46J	JUNE 14	3.02J
JUNE 30	5.33J	FEB. 9	4.00J	NOV. 16	4.24J	JULY 1	2.71J
JULY 1	5.32J	APR. 12	4.23J	DEC. 14	3.92J	AUG. 9	3.48J
AUG. 31	5.13J	MAY 4	4.33J	JAN. 25, 1975	3.34J	SEP. 1	1.50J

J, WELL OR WELLS NEARBY EITHER BEING PUMPED OR PUMPED RECENTLY.

WASHINGTON COUNTY

412214071394001. Local number Cha 18. U.S. Naval Auxiliary Air Station. Post Rd., near Charlestown. Drilled water-table well in sand and clay of Pleistocene age, diam 8 in (20 cm), depth 32 ft (10 m), cased to 32 ft (10 m), open bottom. Lsd about 26 ft (8 m) above ms1. MP top of casing, at lsd. Highest water level 12.79 ft (3.90 m) below lsd, Apr. 25, 1953; lowest 21.63 ft (6.59 m) below lsd, Dec. 29, 1965. Records available: 1946-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	15.42	OCT. 27, 1973	19.28	JUNE 22, 1974	17.87	FEB. 22, 1975	16.37
FEB. 23	15.02	NOV. 23	19.83	JULY 27	18.97	MAR. 22	15.82
MAR. 24	15.57	DEC. 27	16.58	AUG. 24	19.86	APR. 26	16.21
APR. 24	13.86	JAN. 26, 1974	15.11	SEP. 28	20.23	MAY 24	17.03
MAY 26	14.99	FEB. 23	16.17	OCT. 26	20.44	JUNE 21	16.28
JUNE 23	16.39	MAR. 23	16.52	NOV. 23	20.78	JULY 30	17.81
JULY 29	16.49	APR. 27	15.41	DEC. 27	19.79	AUG. 23	18.68
AUG. 27	17.09	MAY 25	16.95	JAN. 25, 1975	16.40	SEP. 27	19.59
SEP. 22	18.17						

413423071431901. Local number Exe 6. State Dept. of Natural Resources. Arcadia State Forest. Ten Rod Rd., near Millville. Dug water-table well in sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 10 ft (3 m), cased with concrete to 10 ft (3 m), open bottom. Lsd about 130 ft (40 m) above ms1. MP hole on east side of concrete cover, at lsd. Highest water level 3.27 ft (1.00 m) below lsd, Dec. 27, 1972; lowest 7.74 ft (2.36 m) below lsd, Sept. 27, 1957. Records available: 1948-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	3.93J	OCT. 27, 1973	6.64J	JUNE 22, 1974	5.53J	FEB. 22, 1975	4.86J
FEB. 23	4.25J	NOV. 23	6.57J	JULY 27	6.45J	MAR. 22	4.25J
MAR. 24	4.81J	DEC. 27	3.81J	AUG. 24	6.99J	APR. 26	4.75J
APR. 24	4.60J	JAN. 26, 1974	4.04J	SEP. 28	7.02J	MAY 24	5.57J
MAY 26	4.46J	FEB. 23	3.64J	OCT. 26	6.59J	JUNE 21	5.36J
JUNE 23	5.49J	MAR. 23	3.65J	NOV. 23	6.52J	JULY 30	6.28J
JULY 29	5.91J	APR. 27	4.84J	DEC. 27	5.39J	AUG. 23	6.69J
AUG. 27	6.21J	MAY 25	5.46J	JAN. 25, 1975	4.57J	SEP. 27	5.75J
SEP. 22	6.45J						

J, AFFECTED BY STAGE OF A NEARBY STREAM.

413507071525601. Local number Exe 16. State Dept. of Public Welfare. Dr. Joseph H. Ladd School, near Exeter. Driven water-table well in sand and gravel of Pleistocene age, diam 2.5 in (6.4 cm), depth 27 ft (8 m), cased to 27 ft (8 m), open bottom. Lsd 154.47 ft (47.08 m) above ms1. MP top of casing, 1.78 ft (0.54 m) above lsd. Highest water level 7.38 ft (2.25 m) below lsd, Apr. 15, 1953; lowest 15.40 (4.69 m) below lsd, Oct. 30, 1957. Records available: 1946-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	8.74J	OCT. 27, 1973	12.26J	JUNE 22, 1974	10.51J	FEB. 22, 1975	9.82J
FEB. 23	8.79J	NOV. 23	12.54J	JULY 27	11.34J	MAR. 22	9.52J
MAR. 24	9.25J	DEC. 27	11.31J	AUG. 24	12.14J	APR. 26	9.43J
APR. 24	8.88J	JAN. 26, 1974	10.18J	SEP. 28	12.46J	MAY 24	9.93J
MAY 26	9.16J	FEB. 23	9.64J	OCT. 26	12.40J	JUNE 21	10.33J
JUNE 23	9.79J	MAR. 23	9.68J	NOV. 23	12.68J	JULY 30	11.07J
JULY 30	10.72J	APR. 27	9.24J	DEC. 27	12.33J	AUG. 23	11.67J
AUG. 27	11.18J	MAY 25	9.79J	JAN. 25, 1975	10.59J	SEP. 27	12.36J
SEP. 22	11.67J						

J, NEARBY WELL EITHER BEING PUMPED OR PUMPED RECENTLY.

413148071381601. Local number Nok 255. Lawrence Smith. Pendar Rd., near Allenton. Dug water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 14 ft (4 m), cased with concrete. Lsd about 50 ft (15 m) above ms1. MP top edge of casing on west rim of well, at lsd. Highest water level 3.81 ft (1.16 m) below lsd, Mar. 26, 1968; lowest 12.33 ft (3.76 m) below lsd, Sept. 27, 1966. Records available: 1954-63, 1966-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	7.78	OCT. 27, 1973	9.85	JUNE 22, 1974	8.87	FEB. 22, 1975	7.79
FEB. 23	6.98	NOV. 23	9.78	JULY 27	9.75	MAR. 22	7.54
MAR. 24	7.40	DEC. 27	7.32	AUG. 24	10.69	APR. 26	7.41
APR. 24	6.95	JAN. 26, 1974	7.31	SEP. 28	10.94	MAY 24	8.66
MAY 26	7.20	FEB. 23	7.85	OCT. 26	9.68	JUNE 21	8.00
JUNE 23	8.40	MAR. 23	7.19	NOV. 23	9.93	JULY 30	9.41
JULY 30	8.58	APR. 27	7.76	DEC. 27	9.00	AUG. 23	9.98
AUG. 27	9.05	MAY 25	8.21	JAN. 25, 1975	8.09	SEP. 27	9.07
SEP. 22	9.55						

GROUND-WATER LEVELS IN RHODE ISLAND

413308071280501. Local number Nok 450. Richard S. Bannister. 890 Tower Hill Rd., Belleville. Dug water-table well in sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 17 ft (5 m), cased with concrete. Lsd about 60 ft (18 m) above ms1. MP hole in top of wooden base, 2.80 ft (0.85 m) above lsd. Highest water level 9.85 ft (3.00 m) below lsd, June 24, 1972; lowest 16.45 ft (5.01 m) below lsd, Dec. 29, 1965. Records available: 1961-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	11.31	OCT. 27, 1973	14.95	JUNE 22, 1974	13.30	FEB. 22, 1975	12.36
FEB. 23	10.75	NOV. 23	15.08	JULY 27	14.37	MAR. 22	12.21
MAR. 24	11.35	DEC. 27	13.79	AUG. 24	14.99	APR. 26	12.16
APR. 24	10.77	JAN. 26, 1974	12.30	SEP. 28	15.47	MAY 21	12.91
MAY 26	11.45	FEB. 23	11.91	OCT. 26	15.05	JUNE 21	12.94
JUNE 23	12.44	MAR. 23	11.87	NOV. 23	15.24	JULY 30	13.90
JULY 30	13.32	APR. 27	11.77	DEC. 27	14.57	AUG. 23	14.50
AUG. 27	13.78	MAY 25	12.68	JAN. 25, 1975	12.53	SEP. 27	14.96
SEP. 22	14.41						

412717071415301. Local number Ric 231. N.D. MacLeod. Narragansett Trail, near Wood River Jct. Dug water-table well in sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 29 ft (9 m), lined with stone. Lsd about 84 ft (26 m) above ms1. MP hole in top of wooden cover, 0.36 ft (0.11 m) above lsd. Highest water level 20.65 ft (6.29 m) below lsd, May 23, 1958; lowest dry, several times, 1965-67. Records available: 1955-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	22.08	OCT. 27, 1973	25.29	JUNE 22, 1974	24.01	FEB. 22, 1975	25.56
FEB. 23	21.72	NOV. 23	25.88	JULY 27	24.96	MAR. 22	24.71
MAR. 24	22.08	DEC. 27	25.64	AUG. 24	25.74	APR. 26	24.06
APR. 24	21.32	JAN. 26, 1974	24.31	SEP. 28	26.56	MAY 24	24.32
MAY 26	21.71	FEB. 23	23.49	OCT. 26	27.02	JUNE 21	24.69
JUNE 23	21.97	MAR. 23	23.64	NOV. 23	27.51	JULY 31	24.99
JULY 29	23.00	APR. 27	23.01	DEC. 27	27.64	AUG. 23	25.46
AUG. 27	23.73	MAY 25	23.33	JAN. 25, 1975	26.67	SEP. 27	26.18
SEP. 22	24.40						

412918071321001. Local number Sok 6. University of Rhode Island. Thirty Acre Rd., Kingston. Drilled water-table well in sand and gravel of Pleistocene age, diam 10 in (25 cm), depth 34 ft (10 m), cased to 34 ft (10 m), open bottom. Lsd 111.89 ft (34.10 m) above ms1. MP floor of recorder shelter, 0.57 ft (0.17 m) above lsd (since July 12, 1973). Highest water level 7.99 ft (2.44 m) below lsd, Apr. 13, 1958 (previously reported as 7.92 ft, Apr. 12, 13, 1958); lowest 15.06 ft (4.59 m) below lsd, Dec. 29, 1965. Records available: 1947, 1955-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	10.44	OCT. 27, 1973	13.81	JUNE 22, 1974	12.71	FEB. 22, 1975	11.84
FEB. 23	10.26	NOV. 23	14.06	JULY 27	13.43	MAR. 22	11.51
MAR. 24	10.69	DEC. 27	12.50	AUG. 24	14.04	APR. 26	11.62
APR. 24	9.98	JAN. 26, 1974	11.48	SEP. 28	14.30	MAY 24	12.19
MAY 26	10.57	FEB. 23	11.38	OCT. 26	14.43	JUNE 21	11.96
JUNE 23	11.54	MAR. 23	11.37	NOV. 23	14.63	JULY 30	12.41
JULY 30	12.19	APR. 27	11.30	DEC. 27	13.93	AUG. 23	13.22
AUG. 27	12.70	MAY 25	12.08	JAN. 25, 1975	12.31	SEP. 27	13.53
SEP. 22	13.27						

412923071361601. Local number Sok 515. R.R. Holley. Laurel Lane Golf Course, near West Kingston. Dug water-table well in sand and gravel of Pleistocene age, diam 36 in (91 cm), depth 30 ft (9.1 m), lined with stone. Lsd 127.84 ft (38.97 m) above ms1. MP top edge of concrete casing on south rim of well, 2.03 ft (0.62 m) above lsd. Highest water level 24.38 ft (7.43 m) below lsd, Apr. 8, 1958, Mar. 26, 1968; lowest 30.11 ft (9.18 m) below lsd, Oct. 18-20, 1957; Oct. 25, 1969. Records available: 1955-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	25.70	SEP. 22, 1973	28.27	MAY 25, 1974	27.07	JAN. 25, 1975	26.08
FEB. 23	25.59	OCT. 27	28.74	JUNE 22	27.74	FEB. 22	26.04
MAR. 24	26.09	NOV. 23	28.76	JULY 27	28.54	MAR. 22	25.96
APR. 24	25.37	DEC. 27	27.10	AUG. 24	29.26	APR. 26	26.32
MAY 26	25.80	JAN. 26, 1974	25.87	SEP. 28	29.32	MAY 24	25.95
JUNE 23	26.38	FEB. 23	26.23	OCT. 26	29.05	JUNE 21	26.82
JULY 30	27.39	MAR. 23	26.47	NOV. 23	29.14	JULY 30	25.95
AUG. 27	27.74	APR. 27	26.12	DEC. 27	28.18	SEP. 27	27.47

412154071462901. Local number Wes 522. S. Panciera. Pound Rd. Near Dunn Corner. Dug water-table well in sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 16 ft (5 m), lined with stone. Lsd about 45 ft (14 m) above ms1. MP southwest corner of stone casing 0.91 ft (0.28 m) above lsd. Highest water level 10.34 ft (3.15 m) below lsd, Dec. 27, 1972; lowest 14.39 ft (4.39 m) Aug. 25, 1971. Records available: 1969-current year.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1973	11.34	OCT. 27, 1973	13.31	JUNE 22, 1974	12.59	FEB. 22, 1975	11.31
FEB. 23	11.22	NOV. 23	13.42	JULY 27	13.36	MAR. 22	11.15
MAR. 24	11.56	DEC. 27	11.31	AUG. 24	14.03	APR. 26	11.76
APR. 21	11.08	JAN. 26, 1974	10.75	SEP. 28	13.81	MAY 24	12.36
MAY 26	11.38	FEB. 23	11.09	OCT. 26	13.58	JUNE 21	12.07
JUNE 23	12.33	MAR. 23	11.09	NOV. 23	13.60	JULY 30	12.90
JULY 29	11.93	APR. 27	11.63	DEC. 27	12.36	AUG. 23	13.48
AUG. 27	12.49	MAY 25	12.20	JAN. 25, 1975	11.13	SEP. 27	13.20
SEP. 22	13.09						

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

LOCAL IDENTI- FIER	CITY OR TOWN	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	SITE	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	FLOW RATE (GPM)	DIS- SOLVED IRON (FE) (UG/L)
CHW 382	CHARLESTOWN	41 26 02	071 37 54	01	GW	68	75-05-06	58	68	60	3100
CHW 385	CHARLESTOWN	41 25 48	071 37 44	01	GW	93	75-05-13	84	93	45	30
RIW 355	RICHMOND	41 27 52	071 37 38	01	GW	63	75-04-08	53	63	55	40
RIW 357	RICHMOND	41 27 34	071 37 38	01	GW	83	75-04-10	74	83	60	60
RIW 359	RICHMOND	41 28 01	071 31 34	01	GW	80	75-04-15	69	80	60	20
RIW 360	RICHMOND	41 28 42	071 37 19	01	GW	74	75-04-16	64	74	55	20
RIW 361	RICHMOND	41 28 41	071 37 26	01	GW	93	75-04-17	85	93	55	20
RIW 362	RICHMOND	41 29 22	071 37 35	01	GW	58	75-04-22	48	58	74	40
RIW 363	RICHMOND	41 28 57	071 37 28	01	GW	57	75-04-24	48	57	30	130
RIW 364	RICHMOND	41 28 30	071 37 30	01	GW	100	75-04-28	89	100	65	140
RIW 365	RICHMOND	41 27 18	071 37 46	01	GW	85	75-04-29	74	85	70	30
RIW 366	RICHMOND	41 27 12	071 37 45	01	GW	85	75-04-30	75	85	50	30
RIW 367	RICHMOND	41 27 47	071 37 39	01	GW	84	75-05-01	74	84	50	30
RIW 368	RICHMOND	41 30 16	071 38 29	01	GW	53	75-05-15	42	53	11	11000

LOCAL IDENTI- FIER	CITY OR TOWN	DATE OF SAMPLE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
CHW 382	CHARLESTOWN	75-05-06	420	--	6.6	.24	.01	.25	.25	.00	72
CHW 385	CHARLESTOWN	75-05-13	20	27	4.6	--	--	.09	.09	.00	95
RIW 355	RICHMOND	75-04-08	40	14	21	.51	.01	.52	.52	.00	110
RIW 357	RICHMOND	75-04-10	10	12	8.5	1.3	.01	1.3	1.3	.00	88
RIW 359	RICHMOND	75-04-15	20	--	8.6	1.3	.01	1.3	1.3	.00	104
RIW 360	RICHMOND	75-04-16	20	--	6.5	1.2	.01	1.2	1.2	.00	76
RIW 361	RICHMOND	75-04-17	10	--	7.3	.42	.01	.43	.43	.00	80
RIW 362	RICHMOND	75-04-22	20	--	6.2	.30	.01	.31	.32	.01	54
RIW 363	RICHMOND	75-04-24	50	--	15	9.6	.00	9.6	9.7	.07	245
RIW 364	RICHMOND	75-04-28	30	--	31	8.4	.00	8.4	8.6	.16	310
RIW 365	RICHMOND	75-04-29	20	--	5.8	.45	.00	.45	.63	.18	73
RIW 366	RICHMOND	75-04-30	30	--	6.7	.90	.00	.90	1.1	.20	89
RIW 367	RICHMOND	75-05-01	20	--	13	.37	.00	.37	.64	.27	90
RIW 368	RICHMOND	75-05-15	150	11	5.3	--	--	.00	.08	.08	82

LOCAL IDENTI- FIER	CITY OR TOWN	DATE OF SAMPLE	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
CHW 382	CHARLESTOWN	75-05-06	--	9.5	1.4	6.3
CHW 385	CHARLESTOWN	75-05-13	--	9.5	.5	6.8
RIW 355	RICHMOND	75-04-08	6.6	9.5	8.4	14
RIW 357	RICHMOND	75-04-10	6.1	10.5	9.7	2.3
RIW 359	RICHMOND	75-04-15	10.2	10.2	8.5	.2
RIW 360	RICHMOND	75-04-16	--	10.3	10.0	.4
RIW 361	RICHMOND	75-04-17	--	10.5	7.5	.4
RIW 362	RICHMOND	75-04-22	--	9.5	10.3	3.2
RIW 363	RICHMOND	75-04-24	--	10.5	9.1	7.8
RIW 364	RICHMOND	75-04-28	--	9.5	8.7	.3
RIW 365	RICHMOND	75-04-29	--	10.0	8.6	.6
RIW 366	RICHMOND	75-04-30	--	10.5	8.0	2.3
RIW 367	RICHMOND	75-05-01	--	9.5	8.7	3.2
RIW 368	RICHMOND	75-05-15	--	10.5	.3	1.5

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