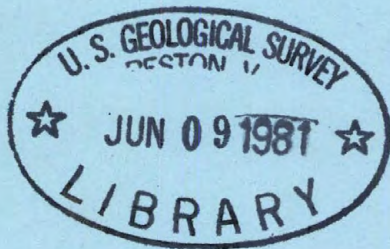


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Water Resources Data for Connecticut



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-80-1

WATER YEAR 1980

Prepared in cooperation with the State of
Connecticut and with other agencies

CALENDAR FOR WATER YEAR 1980

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OCTOBER

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Water Resources Data for Connecticut

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-80-1

WATER YEAR 1980

Prepared in cooperation with the State of
Connecticut and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

For information on the water program in Connecticut write to
District Chief, Water Resources Division
U.S. Geological Survey
135 High Street, Room 235
Hartford, Connecticut 06103

1981

PREFACE

This report was prepared by personnel of the Connecticut district of the Water Resources Division of the U.S. Geological Survey under the supervision of David McCartney, District Chief, and J. E. Biesecker, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Connecticut and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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 (v) tidal volume, (c) chemical, (b) biological,
 (m) microbiological, (t) water temperature,
 (s) sediment, (r) rainfall, (ds) storm discharge

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WATER RESOURCES DATA FOR CONNECTICUT, 1980

INTRODUCTION

Water resources data for the 1980 water year for Connecticut consist of records of stage, discharge, and water quality of streams; contents and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This report contains records of water discharge at 53 gaging stations; storm discharge at 7 gaging stations; stage only at 1 gaging station; tidal volume at 1 gaging station; storm rainfall at 6 gaging stations; stage only records at 3 tidal-gaging stations; contents at 36 lakes and reservoirs; water quality at 46 gaging stations, 5 lakes and reservoirs, 2 harbors, 34 wells, and 1 spring; and water levels at 59 observation wells. Also included are data for 44 crest-stage partial-record stations. Locations of these sites are shown on figures 2, 3, and 4. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements and analysis. A few pertinent stations (not included above) in bordering States are also enclosed in this report. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Connecticut.

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 September 30, 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 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 and ground-water data since water year 1971 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports 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 CT-80-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (203)244-2528.

COOPERATION

The U.S. Geological Survey and organizations of the State of Connecticut have had cooperative agreements for the systematic collection of streamflow records since 1928, for ground-water levels since 1934, and for water-quality records since 1952. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Environmental Protection, Stanley J. Pac, commissioner.

State Department of Transportation, Arthur B. Powers, commissioner.

Connecticut Agricultural Experiment Station, Paul Waggoner, director.

Town of Enfield, Department of Public Works, Roger Mullins, director.

Town of Fairfield, Conservation Commission, Thomas J. Steinke, director.

Town of Manchester, Department of Public Works, Jay J. Giles, director.

Town of Meriden, Department of Public Works, J. Bruce Marks, director.

Midstate Regional Planning Agency, Geoffrey L. Colegrove, director.

City of New Britain, Board of Water Commissioners,
John J. Grady, Chairman.

Northeast Connecticut Regional Planning Agency,
Gerald M. McCarthy, Executive Director.

City of Norwalk, Department of Public Works, Charles S.
Marshall, director.

Town of Southbury, Michael J. Kenney, First Selectman.

Town of South Windsor, Department of Public Works,
Allan S. Young, director, succeeded by Richard Shattuck.

City of Torrington, Francis Sattin, director,
Department of Public Works.

Town of Woodbury, J. Lawrence Pond, First Selectman.

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army, in collecting records for seventeen gaging stations published in this report.

The following organizations aided in collecting records:

Metropolitan Water Bureau of Hartford; city of Waterbury; Massachusetts Department of Natural Resources; Connecticut Light and Power Co.; city of Wallingford; Farmington River Power Co.; Hartford Electric Light Co.; New Haven Water Co.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

Connecticut District personnel who contributed significantly to the collection and preparation of the data in this report were: C. E. Thomas, Jr., Chief, Hydrologic Surveillance Section, assisted by T. B. Shepard, L. A. Weiss, M. A. Cervione, B. S. Davies, L. C. Morey, T. L. Pintavalle, J. C. Wallace, I. S. Gasperini, K. P. Kulp, D. F. Healy, J. M. Bialy, and C. H. Keune.

HYDROLOGIC CONDITIONS

At the beginning of the 1980 water year, surface-water discharges were in the above normal range throughout Connecticut.

Streamflow conditions during November varied and were in the normal range in the western half of the State and in the above normal range in the eastern half of the State.

WATER RESOURCES DATA FOR CONNECTICUT, 1980

All four index stations (Mount Hope River near Warrenville, Salmon River near East Hampton, Burlington Brook near Burlington, and Pomperaug River at Southbury) produced normal flows during December and January, and below normal flow in February. Above normal flows occurred during March and April with normal conditions prevailing from May through August. Streamflow for September was in the below normal range with year end flows averaging 42 percent of median except in the northeast portion of the State where it averaged 63 percent of median.

February was the month of lowest runoff, producing the lowest February flows since the 1960's drought. Mount Hope River near Warrenville had the lowest flow of record (40 years) for February with the other index stations producing the second and third lowest flows.

Usable capacity of 16 municipal reservoirs of Hartford, Waterbury, Bridgeport, and Stamford was 86 percent at the beginning of the water year. It increased to 97 percent by the end of January and then decreased to 95 percent in February. It increased to 99 percent in March and remained at 99 percent through May and ended the year at 75 percent. Usable contents were 5 percent above average at the beginning of the water year and 8 percent below average at the end of the water year.

Ground-water levels were above average from October through December, declined during January and February, and then rose to above normal conditions in March and April. During May, June, and July most water levels were declining slowly through the normal range and by August and September, levels in southwestern Connecticut had reached the low range of their fluctuation.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English inch-pound system units to International System of units (SI) on the inside of the back cover.

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.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

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

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of samples.

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 and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, 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. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°- 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$ on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines 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. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ on KF medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material: See Bottom material.

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

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

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells of any organism which 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, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnished an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

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

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

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

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.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

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 approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate. It is recognized that certain kinds of samples cannot be filtered; to provide for this, procedures that are considered equivalent to filtering through a 0.45-micrometer membrane filter will be identified and announced at a later date.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$d = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

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

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

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).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lstd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

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 gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter ($\mu\text{g/L}$, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (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 represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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

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 (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism 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.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of Analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	.004 - .062	Sedimentation
Sand	.062 - 2.0	Sedimentation or sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distribution given in this report is not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

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, mass or volume.

Periphyton refers to the assemblage of organisms attached to and growing upon submerged 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 undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

pH is a symbol denoting the negative logarithm (base 10) of the hydrogen ion concentration of 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.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). 10 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).

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

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.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time ($\text{mg C}/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3 \cdot \text{time})$ for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time ($\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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).

Suspended-sediment discharge (tons/day) 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 passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

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

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. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

° Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95

percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species....Hexagenia limbata

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 year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

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

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total (as used in tables of chemical analyses):

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical

form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total organic carbon (TOC) is a measure of all organic matter present in aqueous solution and suspension.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. 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 0118800, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "188000". (In a few instances where no gaps were left in the 8-digit numbering sequence, it was necessary to assign that station or miscellaneous sites a latitude-longitude number.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site 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 or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1.

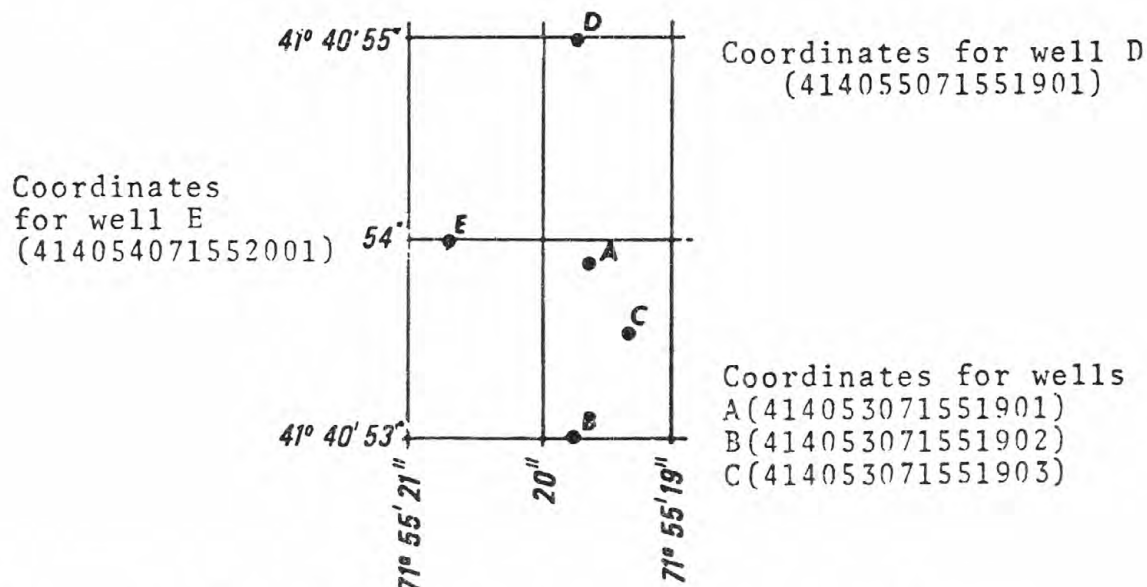


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection 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 into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) 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 streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. 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, computation of flow over dams or weirs), step-back-water techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge 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 engineers and 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 backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the

stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in 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 records and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

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, 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 contents may be estimated on the basis of operator's log, prior and subsequent records, 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 or canals 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 or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and 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 reverse side of the front cover to facilitate finding the day of the week for any date.

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

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along 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 "REVISED RECORDS" 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 the 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 are affected by the revision, 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 type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS".

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is 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. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or 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. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

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 may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion and if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the means for the daily discharges during the calendar and water years.

Footnotes to the table of daily discharge 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 the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-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.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published

for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. The table lists annual maximum stage and discharge at crest-stage stations. The table of partial-record stations is followed by a table listing discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow 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 interpretations 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; "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 ft³/s; to tenths between 1.0 and 10 ft³/s to whole numbers between 10 and 1,000 ft³/s and to 3 significant figures above 1,000 ft³/s. 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.

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, increase or decrease in evaporation due to artificial causes or to 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, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the 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.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

Water-quality records collected at a surface-water, daily record station are published immediately following that record, regardless of the frequency of sampling collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-

quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appears next. The table of ground-water quality follows ground-water level records. Data for quality of ground water is listed alphabetically by County, then town, and is identified by local well number.

For continuing record stations, data is preceded by information pertinent to the history of station operation. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Headings for precipitation-quality records include location information and a description of the sample collector.

There is a broad range of water-quality parameters available for most stations whose record exceeds more than a few years operation. Sampling schedules are often intermittent for certain types of data, with analyses available for some but not all years within a station's period of record.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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 a 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 digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon 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 district office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; 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.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samples. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the

subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Water-Quality Criteria

The Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500) stipulated that water-quality criteria were to be developed to assure the integrity of ground and surface waters of the United States. Criteria were set for various types of water use.

These criteria indicate limiting values of various parameters in water to provide adequate protection of water users, essential aquatic life, and consumers of such aquatic life.

Chemical constituents in bottom sediments (BTM) are reported as weight of constituent per weight of sediment. These limiting values are based not on health effects, but rather on the potential hazard which might be caused if these sediments were suspended into the water phase.

WATER QUALITY CRITERIA

Parameter name	Limiting value	Units	Use	Basis for selection
General Inorganics				
Alkalinity, Total (as CaCO ₃)	20*	mg/L	2	A
Antimony	50	µg/L	5	C
Antimony, BTM	500	µg/g	5	C
Arsenic	50	µg/L	4, 6	A, B, C
	100	µg/L	3	A
Arsenic, BTM	200	µg/g	5	C
Barium	1000	µg/L	4, 6	A, B, C
Barium, BTM	2000	µg/g	5	C
Beryllium	11	µg/L	2a	A, C
	100	µg/L	3	A
	1100	µg/L	2b	A
Beryllium, BTM	200	µg/g	5	C
Boron	750	µg/L	3	A
	1000	µg/L	5	C
Cadmium	0.4	µg/L	1a	A
	1.2	µg/L	1b	A
	4.0	µg/L	2a	A
	5.0	µg/L	8	A
	10	µg/L	4, 6	A, B, C
	12	µg/L	2B	A
Cadmium, BTM	20	µg/g	5	C
Chloride	250	mg/L	6A	D
Chromium, total	50	µg/L	4, 6	A, B, C
	100	µg/L	2	A
Chromium, BTM	200	µg/g	5	C
Color	15	color units	6a	D
	75	color units	4	A
Copper	1000	µg/L	4, 6a	A, C, D
Copper, BTM	2000	µg/g	5	C
Cyanide	5	µg/L	2, 8	A
	20	µg/L	5	C
Cyanide, BTM	100	µg/g	5	C
Fecal coliform, MF	200†	col/100 mL	7	A
Fecal coliform, MPN	200†	col/100 mL	7	A
Iron	300	µg/L	4, 6a	A, D
	1000	µg/L	2	A
Lead, dissolved	50	µg/L	4, 6	A, B, C
Lead, total	200	µg/L	5	C
Lead, BTM	500	µg/g	5	C
Manganese	50	µg/L	4, 6a	A, D
Mercury	0.05	µg/L	2	A
	0.1	µg/L	8	A
	2	µg/L	4, 6	A, B, C
Mercury, BTM	20	µg/g	5	C
Nickel	100	µg/L	2, 8	A, C
Nickel, BTM	2000	µg/g	5	C
Nitrate (as N)	10	mg/L	4, 6	A, B, C
Nitrite (as N)	1	mg/L	4	A, C
Oxygen, dissolved	5*	mg/L	2	A
pH	6.5-8.5		6a, 8	A, C, D
	6.5-9.0		2	A
	5.0-9.0		4	A
Selenium	10	µg/L	4, 6	A, B, C
Selenium, BTM	20	µg/g	5	C
Silver	50	µg/L	4, 6	A, B, C
Silver, BTM	1000	µg/g	5	C
Solids, total dissolved	500	mg/L	6a	D
Sulfate	250	mg/L	6a	D
Zinc	5000	µg/L	4, 6a	A, C, D
Zinc, BTM	5000	µg/g	5	C
Organics				
Aldrin-dieldrin	0.003	mg/L	2	A
Aldrin	0.01	mg/L	9	C
Aldrin, BTM	20	µg/kg	5	C
Chlordane	0.004	µg/L	8	A
	0.01	µg/L	2	A, C
Chlordane, BTM	20	µg/kg	5	C
DDT**	0.001	µg/L	2, 8	A
	0.01	µg/L	9	C
DDT, BTM	20	µg/kg	5	C
Demeton	0.1	µg/L	2, 8	A
Dieldrin	0.01	µg/L	9	C
Dieldrin, BTM	20	µg/kg	5	C

WATER QUALITY CRITERIA

Parameter name	Limiting value	Units	Use	Basis for selection
Endosulfan	0.001	µg/L	8	A
	0.003	µg/L	2	A
	0.01	µg/L	9	C
Endrin	0.004	µg/L	2, 8	A
	0.01	µg/L	9	C
	0.2	µg/L	4, 6	B
Endrin, BTM	20	µg/kg	5	C
Guthion	0.01	µg/L	2, 8	A
Heptachlor	0.001	µg/L	2, 8	A
	0.01	µg/L	9	C
Heptachlor, BTM	20	µg/kg	5	C
Heptachlor epoxide	0.01	µg/L	9	C
Heptachlor epoxide, BTM	20	µg/kg	5	C
Lindane	0.004	µg/L	8	A
	0.01	µg/L	2	A, C
	4	µg/L	4, 6	A, B
Lindane, BTM	20	µg/kg	5	C
Malathion	0.1	µg/L	2, 8	A, C
Malathion, BTM	20	µg/kg	5	C
MBAS (foaming agents)	0.5	mg/L	6a	D
Methoxychlor	0.03	µg/L	2, 8	A, C
	100	µg/L	4, 6	A, B
Methoxychlor, BTM	20	µg/kg	5	C
Mirex	0.001	µg/L	2, 8	A
	0.01	µg/L	9	C
Mirex, BTM	20	µg/kg	5	C
Parathion	0.04	µg/L	2, 8	A, C
Parathion, BTM	20	µg/kg	5	C
PCB	0.001	µg/L	2, 8	A
	0.1	µg/L	9	C
PCB, BTM	20	µg/kg	5	C
Phenols	1.0	µg/L	4	A
	5.0	µg/L	5	C
Toxaphene	0.005	µg/L	2, 8	A
	1.0	µg/L	9	C
	5.0	µg/L	4, 6	A, B
Toxaphene, BTM	20	µg/kg	5	C
Silvex	10	µg/L	4, 6	A, B, C
Silvex, BTM	20	µg/kg	5	C
2, 4-D	100	µg/L	4, 6	A, B, C
2, 4-D, BTM	20	µg/kg	5	C

Radiochemicals

Radium 226	5	pCi/L	4, 6	B, C
Strontium 90	8	pCi/L	4, 6	B, C
Tritium	20,000	pCi/L	4, 6	B, C
Gross alpha	15	pCi/L	4, 6	B, C

* Minimum recommended value

† Log mean, based on not less than five samples

** Including metabolites (DDD and DDE)

Water Use and/or for the Protection of:

- 1a. Sensitive salmonoid species in soft water
- 1b. Sensitive salmonoid species in hard water
2. Freshwater aquatic life
- 2a. Freshwater aquatic life in soft water
- 2b. Freshwater aquatic life in hard water
3. Crop irrigation
4. Domestic water supply source
5. Recommended limits have not been established; limit set to arbitrarily flag no more than the upper 15 to 20 percent of values nationwide.
6. Potable drinking water, based on health effects
- 6a. Potable drinking water, based on aesthetic considerations
7. Primary contact
8. Marine aquatic life
9. Minimum non-zero concentration reported by the U.S. Geological Survey Central Water Quality Laboratories system.

Basis for Selection

- A. Maximum levels recommended by: Quality Criteria for Water, 1976, U.S. Environmental Protection Agency.
- B. Maximum contaminant level established by: National Interim Primary Drinking Water Regulations 1976, U.S. Environmental Protection Agency.
- C. Suggested limiting value, U.S. Geological Survey, Quality of Water Branch.
- D. Maximum contaminant level recommended for the Proposed Secondary Drinking Water Regulations, U.S. Environmental Protection Agency.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent. Accordingly, most measurements are reported to a hundredth of a foot.

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; National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is 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 ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greenson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

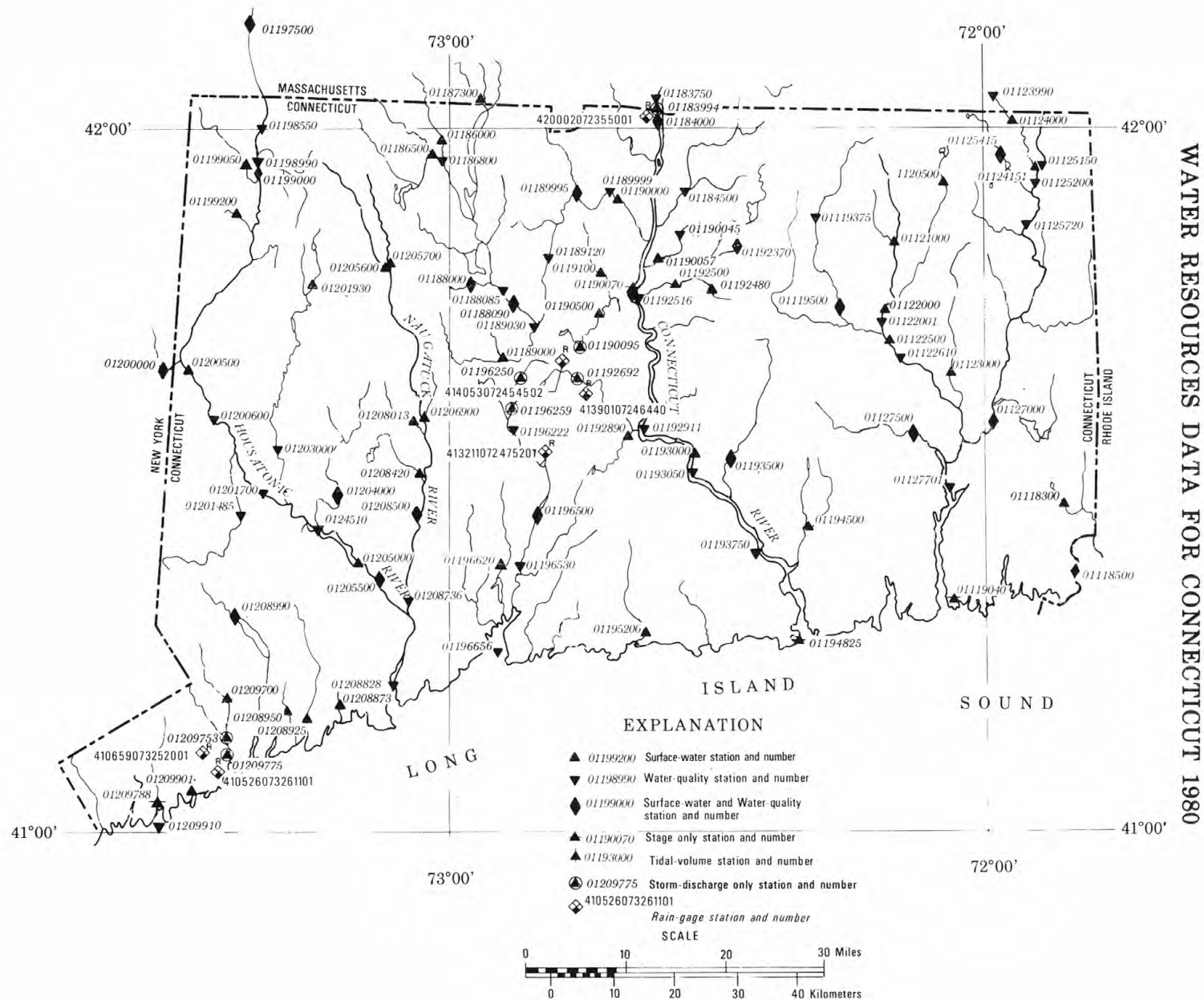


FIGURE 2--LOCATION OF GAGING STATIONS

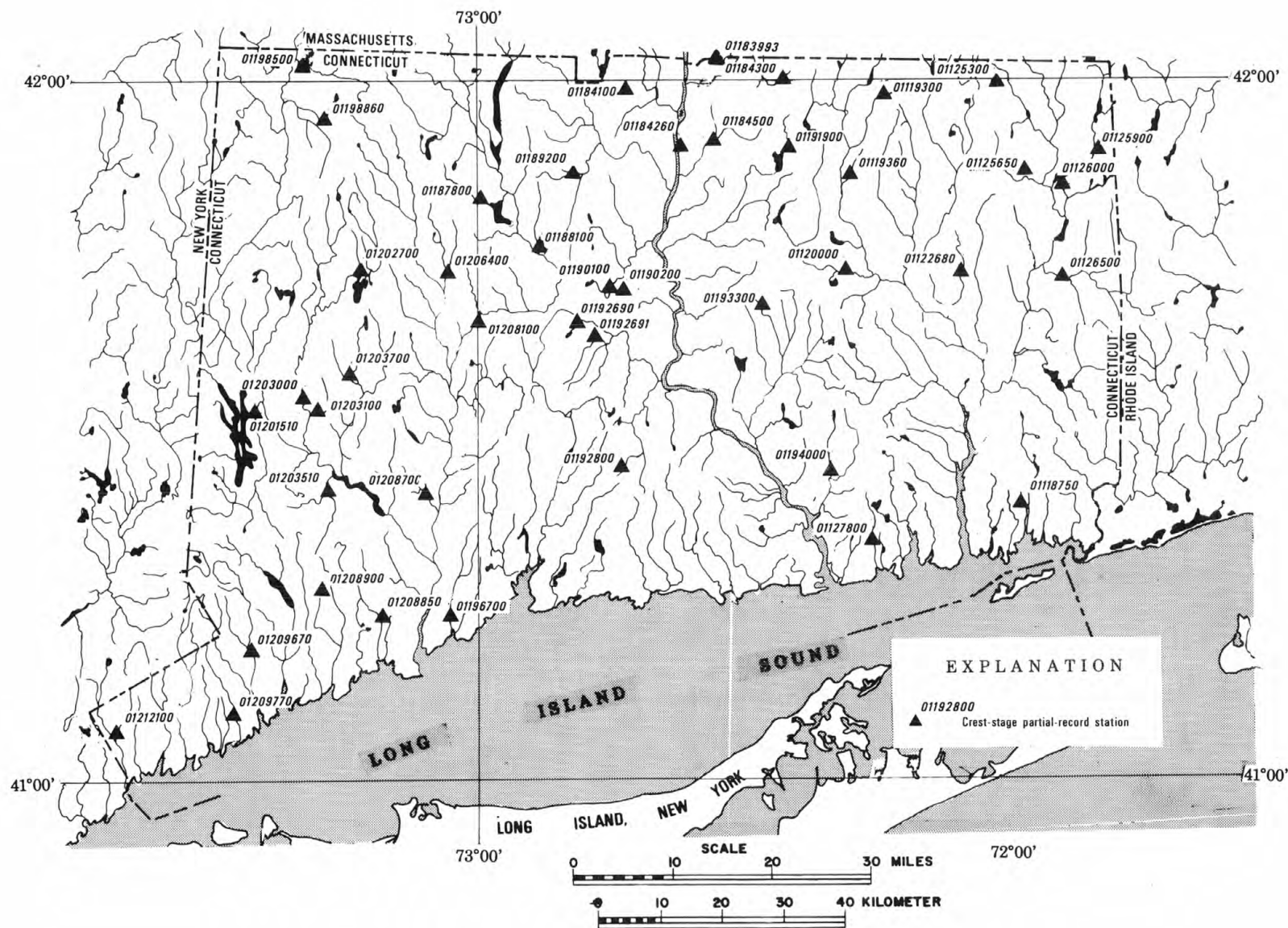


FIGURE 3--LOCATION OF PARTIAL-RECORD STATIONS

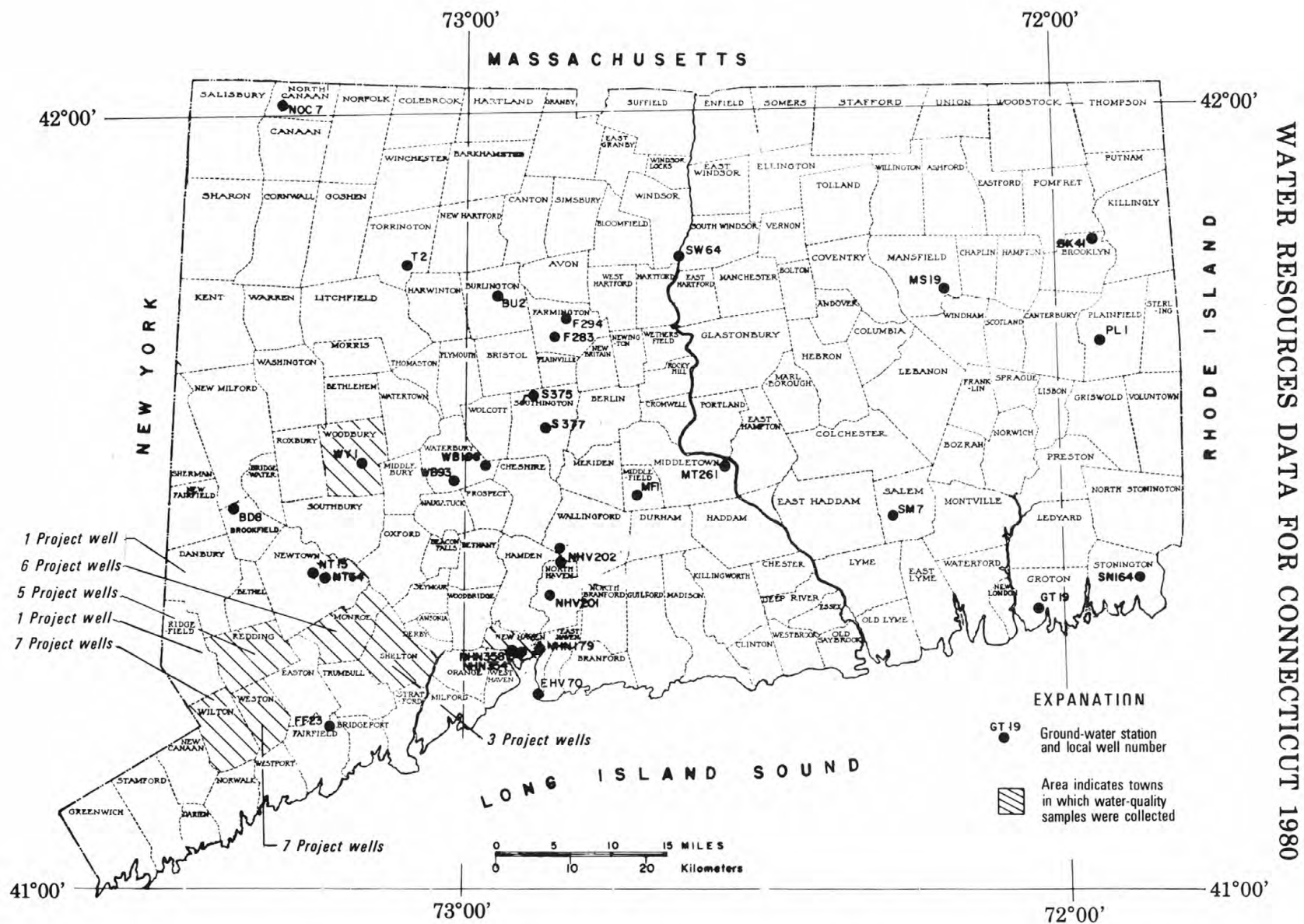


FIGURE 4-- LOCATION OF OBSERVATION WELLS AND GROUND WATER QUALITY SAMPLING AREAS

GAGING STATION RECORDS

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PAWCATUCK RIVER BASIN

01118300 PENDLETON HILL BROOK NEAR CLARKS FALLS, CT

LOCATION.--Lat 41°28'29", long 71°50'05", New London County, Hydrologic Unit 01100003, on left bank just upstream from twin culverts on Grindstone Hill Road, 0.1 mi (0.2 km) west of State Highway 49 in the township of North Stonington, 1.6 mi (2.6 km) northwest of Clarks Falls, and 3.4 mi (5.5 km) northeast of village of North Stonington.

DRAINAGE AREA.--4.02 mi² (10.41 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 152.90 ft (46.604 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 8.56 ft³/s (0.242 m³/s), 28.92 in/yr (735 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 492 ft³/s (13.9 m³/s) Jan. 21, 1979, gage height, 6.41 ft (1.954 m); minimum, 0.01 ft³/s (<0.001 m³/s) Sept. 9-17, 1980, gage height, 0.62 ft (0.189 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (1.98 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	0630	*478 13.5	*6.34 1.932

Minimum discharge, 0.01 ft³/s (<0.001 m³/s) Sept. 9-17, gage height, 0.62 ft (0.189 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	2.9	6.0	5.3	2.8	2.0	28	12	2.7	1.1	.44	.12
2	3.7	2.9	5.8	5.1	2.4	1.9	21	11	3.1	.99	.51	.11
3	3.7	30	5.3	4.9	2.2	1.8	18	9.4	3.4	1.1	1.9	.08
4	4.4	27	5.3	4.3	2.1	1.7	43	8.6	3.7	1.1	2.2	.05
5	3.4	16	5.1	4.3	2.0	1.7	41	8.2	2.7	.75	1.1	.03
6	3.9	11	5.3	3.9	2.0	2.0	28	7.7	2.3	1.8	.56	.03
7	3.2	9.6	17	4.3	1.9	2.5	21	7.5	9.1	2.0	.37	.03
8	2.8	8.4	11	4.7	1.9	5.3	18	8.4	9.9	1.8	.26	.02
9	3.2	7.7	8.2	4.1	1.8	6.7	17	8.6	6.5	2.3	.20	.01
10	6.2	8.2	7.3	3.7	1.8	5.3	82	7.5	7.7	1.7	.15	.01
11	7.7	12	6.7	4.3	1.8	8.9	49	6.9	5.6	1.5	.34	.01
12	7.1	24	6.3	18	1.8	6.9	31	8.6	3.9	1.3	2.4	.01
13	6.9	17	10	11	1.8	5.3	25	8.6	3.2	.99	1.2	.01
14	5.8	15	13	8.9	1.8	10	22	8.2	2.8	.80	.60	.01
15	4.9	13	9.4	8.2	1.8	10	23	6.9	2.5	.75	.48	.01
16	4.3	11	8.2	7.5	3.7	8.4	20	6.2	2.2	.75	.44	.01
17	3.7	9.4	8.2	6.7	4.4	8.6	17	5.6	1.9	.70	.26	.01
18	3.5	8.6	6.9	6.3	3.5	81	15	5.6	1.7	.70	.18	.15
19	3.4	8.2	6.0	6.3	3.4	43	14	6.7	1.6	.60	.48	.18
20	3.2	7.7	5.3	6.0	3.4	25	13	7.1	1.8	.60	.86	.11
21	2.9	7.5	5.6	5.3	3.9	61	12	9.6	2.0	.75	.60	.08
22	2.9	7.1	6.0	5.3	3.7	344	11	10	1.5	.56	.51	.06
23	2.9	6.9	6.3	8.9	5.8	97	10	7.3	1.2	.34	.48	.05
24	4.3	6.7	6.5	6.7	5.8	56	9.9	5.8	1.1	.32	.32	.03
25	4.3	6.5	11	5.3	5.1	46	9.4	5.1	.92	.24	.20	.02
26	3.7	7.5	10	4.7	4.3	39	9.1	4.3	.80	.20	.15	.03
27	3.2	9.6	8.2	4.3	3.5	30	8.9	3.9	.75	.18	.12	.06
28	3.2	8.0	7.1	4.3	2.8	25	10	3.4	.65	.16	.11	.06
29	3.9	7.1	6.5	4.1	2.4	23	22	3.1	.75	.51	.10	.05
30	3.5	6.5	6.2	3.5	---	27	16	2.8	1.3	1.8	.10	.03
31	2.9	---	5.8	3.2	---	27	---	2.8	---	.75	.11	---
TOTAL	126.4	323.0	235.5	183.4	85.6	1013.0	664.3	217.4	89.27	29.14	17.73	1.47
MEAN	4.08	10.8	7.60	5.92	2.95	32.7	22.1	7.01	2.98	.94	.57	.049
MAX	7.7	30	17	18	5.8	344	82	12	9.9	2.3	2.4	.18
MIN	2.8	2.9	5.1	3.2	1.8	1.7	8.9	2.8	.65	.16	.10	.01
CFSM	1.02	2.69	1.89	1.47	.73	8.13	5.50	1.74	.74	.23	.14	.01
IN.	1.17	2.99	2.18	1.70	.79	9.37	6.15	2.01	.83	.27	.16	.01

CAL YR 1979	TOTAL	4394.71	MEAN	12.0	MAX	176	MIN	.24	CFSM	2.99	IN	40.66
WTR YR 1980	TOTAL	2986.21	MEAN	8.16	MAX	344	MIN	.01	CFSM	2.03	IN	27.63

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, Hydrologic Unit 01090005, on left bank at Westerly, 2.1 mi (3.4 km) downstream from Shunock River.

DRAINAGE AREA.--295 mi² (764 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1940 to current year.

REVISED RECORDS.--WSP 1051: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft (0.536 m) below National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No gage-height record May 1 to June 11. Diurnal fluctuation at low flow prior to 1962 by mills upstream; regulation much greater prior to 1958. Diversion upstream for municipal supply of Westerly.

AVERAGE DISCHARGE.--39 years (water years 1942-80), 574 ft³/s (16.26 m³/s), 26.42 in/yr (671 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,470 ft³/s (127 m³/s) Mar. 18, 1968, gage height, 10.49 ft (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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 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. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that in March 1936. Maximum stage since at least 1635, 15.0 ft (4.57 m) Sept. 21, 1938, due to hurricane tidal wave.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,190 ft³/s (119 m³/s) Mar. 22, gage height, 9.77 ft (2.978 m); minimum daily, 72 ft³/s (2.04 m³/s) Sept. 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	371	529	401	325	315	1810	1150	335	208	167	89
2	395	365	501	395	320	309	1720	1000	330	203	155	89
3	407	543	480	376	325	304	1600	940	335	199	152	86
4	571	1110	459	371	310	304	1640	860	350	195	152	83
5	599	1160	452	359	310	304	1920	800	360	191	141	80
6	585	1050	439	336	310	304	1810	760	360	203	137	80
7	550	918	564	342	310	309	1740	720	400	195	134	80
8	508	783	663	353	315	320	1580	720	500	182	130	78
9	445	693	627	348	309	382	1440	750	550	167	127	75
10	473	627	564	331	309	388	1790	720	520	163	120	75
11	606	648	515	331	304	407	2150	720	470	155	124	72
12	641	888	487	452	304	439	2090	700	426	152	148	72
13	678	1060	508	592	304	413	1960	680	359	148	144	72
14	648	1070	627	585	304	473	1800	700	304	141	137	72
15	606	1020	648	557	304	592	1650	670	289	144	137	78
16	543	910	620	522	309	571	1540	640	273	141	120	80
17	508	813	571	459	348	529	1440	610	263	141	127	78
18	473	723	529	420	342	1020	1320	580	273	141	124	95
19	445	678	473	420	325	1600	1200	580	268	141	127	104
20	426	641	426	407	325	1510	1120	590	259	141	127	98
21	413	620	420	395	325	1490	1060	600	273	144	124	95
22	407	599	420	382	331	3350	1000	650	254	144	120	89
23	388	578	420	420	342	3850	940	610	249	141	117	83
24	395	557	432	439	371	3540	903	580	235	144	110	80
25	401	543	466	420	371	3260	865	510	225	141	104	78
26	401	543	522	395	353	2980	828	470	208	134	101	80
27	388	571	522	382	348	2650	820	430	203	127	104	80
28	371	613	487	376	342	2290	873	400	195	127	86	78
29	382	613	452	365	325	2020	1060	380	186	134	83	78
30	376	564	426	348	---	1890	1220	360	195	159	86	78
31	376	---	413	348	---	1820	---	350	---	171	89	---
TOTAL	14753	21872	15662	12627	9420	39933	42889	20230	9447	4917	3854	2455
MEAN	476	729	505	407	325	1288	1430	653	315	159	124	81.8
MAX	678	1160	663	592	371	3850	2150	1150	550	208	167	104
MIN	348	365	413	331	304	304	820	350	186	127	83	72
CFSM	1.61	2.47	1.71	1.38	1.10	4.37	4.85	2.21	1.07	.54	.42	.28
IN.	1.86	2.76	1.97	1.59	1.19	5.04	5.41	2.55	1.19	.62	.49	.31
CAL YR 1979	TOTAL	302244	MEAN 828	MAX 3770	MIN 167	CFSM 2.81	IN 38.11					
WTR YR 1980	TOTAL	198059	MEAN 541	MAX 3850	MIN 72	CFSM 1.83	IN 24.98					

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1963, 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to current year.

WATER TEMPERATURES: June 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1978.

REMARKS.--Interruptions in the record were due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 236 micromhos September 30, 1980; minimum, 36 micromhos May 24, 1979.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 9, 1980; minimum, 0.0°C on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 236 micromhos September 30; minimum, 49 micromhos March 22, 24.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 9; minimum, 0.0°C on several days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	C.O.D. TOTAL IN BOTTOM MA- TERIAL (MG/KG)
OCT												
15...	1040	599	75	6.3	11.5	9.0	100	1.0	10.7	92	--	--
NOV												
15...	0950	1030	68	6.0	7.0	7.5	80	1.0	11.2	93	--	--
21...	1230	620	76	--	--	8.0	--	--	--	--	--	--
DEC												
11...	1045	515	84	6.3	12.5	3.0	60	1.0	13.2	98	16	6900
JAN												
11...	0820	331	93	--	--	1.0	--	--	--	--	--	--
16...	1015	522	80	6.2	5.5	2.5	40	1.0	13.1	96	--	--
FEB												
14...	1325	304	115	6.5	5.5	1.5	20	1.0	14.0	99	--	--
MAR												
11...	0910	401	99	--	--	6.0	--	--	--	--	--	--
19...	1300	1600	68	6.9	11.0	4.0	15	2.0	12.8	97	19	22000
APR												
17...	1240	1420	64	6.7	12.5	10.5	10	1.0	10.7	96	--	--
MAY												
14...	1045	700	73	6.6	21.0	17.0	40	1.0	9.6	99	--	--
JUN												
02...	0940	329	85	--	--	20.0	--	--	--	--	--	--
12...	1100	439	80	6.7	18.0	15.5	50	2.0	9.5	95	33	28000
JUL												
10...	1245	163	100	6.7	24.0	23.5	35	1.0	10.2	119	--	--
15...	0855	144	104	--	--	23.5	--	--	--	--	--	--
AUG												
14...	1230	137	158	8.6	29.0	25.5	25	2.0	10.5	126	--	--
SEP												
03...	0915	86	222	6.7	23.5	23.5	20	1.0	6.9	80	18	2800
11...	1405	72	190	--	--	22.0	--	--	--	--	--	--

DATE	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
OCT												
15...	--	3600	--	2000	48	13	5	3.5	1.1	9.6	67	1.1
NOV												
15...	<1.0	3000	--	170	640	11	11	2.9	.9	7.6	66	1.0
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	--	420	--	170	37	12	4	3.2	1.0	10	70	1.3
JAN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
16...	1.0	2600	20	--	34	13	0	3.5	1.0	8.4	57	1.0
FEB												
14...	--	92	K10	--	K3	17	0	4.6	1.4	14	62	1.5
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	140	95	--	300	10	7	2.5	.9	6.0	53	.8
APR												
17...	--	2300	39	--	K11	10	7	2.8	.8	7.2	58	1.0
MAY												
14...	--	4500	88	--	21	13	6	3.4	1.0	9.9	61	1.2
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	11000	160	--	64	13	1	3.4	1.1	11	63	1.3
JUL												
10...	--	18000	140	--	20	17	9	4.6	1.4	10	54	1.0
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	13000	96	--	K16	20	0	5.2	1.6	18	65	1.8
SEP												
03...	--	17000	60	--	120	23	0	5.7	2.1	31	73	2.8
11...	--	--	--	--	--	--	--	--	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-TOTAL COLONY COUNT)

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT												
15...	11	1.1	8	10	11	.1	8.9	68	52	.09	110	--
NOV												
15...	8.6	1.0	0	9.7	9.4	.1	8.1	63	41	.09	175	--
DEC												
11...	11	1.0	8	10	9.7	.1	8.1	58	49	.08	80.6	10
JAN												
16...	9.3	.9	28	11	10	--	8.1	53	62	.07	74.7	--
FEB												
14...	15	1.1	19	19	12	.2	8.5	69	75	.09	56.6	--
MAR												
19...	7.2	1.2	3	7.6	8.7	.1	5.2	46	35	.06	199	7
APR												
17...	--	1.0	3	9.1	8.7	.1	3.5	48	36	.07	184	--
MAY												
14...	--	.9	7	11	9.9	.1	3.7	56	45	.08	106	--
JUN												
12...	--	.9	12	11	9.7	.1	6.8	66	53	.09	78.2	6
JUL												
10...	--	1.1	8	12	18	.2	5.6	75	61	.10	33.0	--
AUG												
14...	--	1.3	21	21	12	.2	4.7	81	80	.11	30.0	--
SEP												
03...	--	1.7	35	35	15	.3	4.1	122	120	.17	28.3	0
DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
15...	82	.23	.010	.24	.25	.050	.030	.06	.04	.46	.30	.51
NOV												
15...	64	.15	.010	.16	.19	.050	.000	.06	.00	.43	.52	.48
DEC												
11...	72	.35	.000	.35	.34	.050	.020	.06	.03	.41	.33	.46
JAN												
16...	60	.36	.010	.37	.38	.120	.110	.15	.14	.49	.18	.61
FEB												
14...	72	.71	.010	.72	.70	.070	.020	.08	.03	.83	.67	.90
MAR												
19...	48	.29	.000	.29	.27	.190	.110	.23	.14	.34	.07	.53
APR												
17...	60	.14	.020	.16	.15	.000	.030	.00	.04	.14	.34	.14
MAY												
14...	58	.28	.000	.28	.27	.040	.010	.05	.01	.25	.20	.29
JUN												
12...	87	.36	.010	.37	.37	.080	.010	.10	.01	.41	.41	.49
JUL												
10...	73	.64	.010	.65	.62	.000	.000	.00	.00	.11	.64	.11
AUG												
14...	85	.70	.010	.71	.77	.030	.020	.04	.03	.39	.32	.42
SEP												
03...	126	.82	.010	.83	.90	.070	.000	.08	.00	.34	.40	.41

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, NH ₄ + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE TOTAL (MG/L AS P04)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENED TOTAL (UG/L AS AS)
OCT 15...	.18	.33	.75	.58	3.3	.040	.00	.12	.030	.000	1	1
NOV 15...	.00	.52	.64	.71	2.8	.040	.03	.12	.040	.010	--	--
DEC 11...	.11	.35	.81	.69	3.6	.030	.06	.09	.020	.020	--	--
JAN 16...	.32	.29	.98	.67	4.3	.040	.03	.12	.020	.010	0	0
FEB 14...	.21	.69	1.6	1.4	7.2	.040	.06	.12	.040	.020	--	--
MAR 19...	.35	.18	.82	.45	3.6	.060	.06	.18	.030	.020	--	--
APR 17...	.00	.37	.30	.52	1.3	.020	.03	.06	.020	.010	0	0
MAY 14...	.08	.21	.57	.48	2.5	.030	.00	.09	.020	.000	--	--
JUN 12...	.07	.42	.86	.79	3.8	.040	.09	.12	.040	.030	--	--
JUL 10...	.00	.64	.76	1.3	3.4	.040	.03	.12	.040	.010	1	1
AUG 14...	.08	.34	1.1	1.1	5.0	.070	.06	.21	.070	.020	--	--
SEP 03...	.01	.40	1.2	1.3	5.5	.070	.25	.21	.070	.080	--	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS HA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 15...	0	--	0	0	0	0	0	1	--	30	20	10
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	0	--	<50	<30	20	2	0	2	--	20	0	20
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	0	--	<50	--	20	0	0	0	--	20	10	10
MAY 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	0	--	<50	--	20	0	0	0	--	<10	--	10
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	0	--	--	--	--	--	--	<10	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHROMIUM, RECOV. FM ROT- TOM MA- TERIAL (UG/G)	COHALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COHALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COHALT, DIS- SOLVED (UG/L AS CO)	COHALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM ROT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 15...	--	0	0	0	--	7	3	4	--	570	180	390
NOV 15...	--	--	--	--	--	--	--	4	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	4	--	--	--	--
JAN 16...	--	0	0	3	--	5	1	4	--	280	140	140
FEB 14...	--	--	--	--	--	--	--	2	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	3	--	--	--	--
APR 17...	--	0	0	0	--	3	0	6	--	270	100	170
MAY 14...	--	--	--	--	--	--	--	3	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	1	--	--	--	--
JUL 10...	--	0	0	0	--	1	0	4	--	390	90	300
AUG 14...	--	--	--	--	--	--	--	3	--	--	--	--
SEP 03...	10	--	--	--	<10	--	--	3	<10	--	--	--

DATE	IRON, RECOV. FM ROT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM ROT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 15...	--	4	0	4	--	30	10	20	--	.2	.1	.1
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	4	2	2	--	30	10	20	--	.3	.0	.3
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	5	4	1	--	30	0	30	--	.1	.0	.1
MAY 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	1	0	1	--	20	10	10	--	<.1	--	<.1
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	740	--	--	--	<10	--	--	--	13	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SF)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN HOT- TOM MA- TERIAL (UG/G)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)
OCT 15...	--	1	0	1	0	0	0	--	0	0	0
NOV 15...	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	0	--	--
JAN 16...	--	1	0	1	0	0	0	--	0	0	0
FEB 14...	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	0	--	--
APR 17...	--	4	4	0	0	0	0	--	0	0	0
MAY 14...	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	0	--	--
JUL 10...	--	4	3	1	0	0	0	--	0	0	0
AUG 14...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	.00	--	--	--	--	--	--	0	0	--	--

DATE	SILVER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 15...	--	10	2	8	--	3.4	3.0	.4	--	.00	--
NOV 15...	--	--	--	40	--	7.9	--	--	--	--	--
DEC 11...	--	--	--	30	--	5.6	--	--	0	--	0
JAN 16...	--	20	10	10	--	6.6	6.1	.5	--	.00	--
FEB 14...	--	--	--	1	--	4.3	--	--	--	--	--
MAR 19...	--	--	--	0	--	4.1	--	--	0	--	3
APR 17...	--	20	20	0	--	5.2	5.0	.2	--	.10	--
MAY 14...	0	--	--	9	--	5.9	--	--	--	--	--
JUN 12...	--	--	--	6	--	4.8	--	--	0	--	1
JUL 10...	--	30	20	10	--	6.2	5.9	.3	--	.00	--
AUG 14...	--	--	--	0	--	4.2	--	--	--	--	--
SEP 03...	0	--	--	10	8	4.9	--	--	0	--	1

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LFNES, POLY- CHLOR, TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDF, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 03...	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00	.0

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
SEP 03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE TOTAL (UG/L)	PER- THANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 03...	.0	.00	.0	.00	.0	.00	.0	.00	.00	0	0

DATE	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 15...	--	.000	.000
NOV 15...	290	--	--
JAN 16...	--	.000	.000
MAR 19...	1300	--	--
APR 17...	--	.640	.000
MAY 14...	1000	--	--
JUN 12...	1700	--	--
JUL 10...	5200	6.01	.000
AUG 14...	2600	--	--
SEP 03...	550	--	--

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 15...	1040	599	3	4.9	100	APR 17...	1240	1420	7	27	100
NOV 15...	0950	1030	--	--	--	MAY 14...	1045	700	206	389	3
21...	1230	620	--	--	--	JUN 02...	0940	329	--	--	--
DEC 11...	1045	515	4	5.6	83	12...	1100	439	2	2.4	100
JAN 11...	0820	331	--	--	--	JUL 10...	1245	163	3	1.3	100
16...	1015	522	6	8.5	72	15...	0855	144	--	--	--
FEH 14...	1325	304	18	15	66	AUG 14...	1230	137	9	3.3	90
MAR 11...	0910	401	--	--	--	SEP 03...	0915	86	23	5.3	70
19...	1300	1600	17	73	67	11...	1405	72	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO OCTOBER 1980

PERIPHYTON

(sampling method - Polyethylene Strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQM)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQM)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	BIOMASS CHLOROPHYLL RATIO PERI- PHYTON (UNITS)
December 11 to January 16	36	0.390	0.390	0.340	0.000	0.00

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	NOV 15,79 0950	MAR 19,80 1300	MAY 14,80 1045	JUN 12,80 1100
TOTAL CELLS/ML	290	1300	1000	1700
DIVERSITY: DIVISION	1.8	1.0	1.8	1.7
..CLASS	1.8	1.0	1.9	1.7
..ORDER	2.4	1.0	2.5	2.2
...FAMILY	2.6	1.1	3.1	2.9
....GENUS	2.8	1.1	3.1	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHARACIACEAE								
....SCHROEDERIA	14	5	--	-	--	-	--	-
....HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	97	6
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	41	4	41	2
....KIRCHNERIELLA	--	-	--	-	--	-	14	1
....OOCYSTIS	--	-	--	-	--	-	28	2
....TETRAEDRON	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	55	3
....SCENEDESMACEAE								
....ACTINASTRUM	57#	20	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	29	10	--	-	190#	19	41	2
..TETRASPORALES								
...PALMELLACEAE								
....GLOEODCYSTIS	14	5	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	29	10	26	2	28	3	41	2
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCEAE								
....CYCLOTELLA	--	-	--	-	--	-	170	10
...PENNALES								
....ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	14	1	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....CYMBELLACEAE								
....CYMBELLA	--	-	--	-	14	1	--	-
....EUNOTIACEAE								
....EUNOTIA	--	-	--	-	--	-	14	1
....FRAGILARIACEAE								
....FRAGILARIA	--	-	13	1	--	-	--	-
....SYNEDRA	--	-	26	2	14	1	--	-
....GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	14	1	--	-
....NAVICULACEAE								
....NAVICULA	--	-	13	1	28	3	83	5
....NITZSCHIA	--	-	13	1	41	4	41	2
....SURIPELLACEAE								
....SURIPELLA	--	-	--	-	--	-	14	1
....TABELLARIACEAE								
....TABELLARIA	--	-	--	-	41	4	--	-
..CHRYSTOPHYCEAE								
...CHRYSOMONADALES								
....CHROMULINACEAE								
....CHRYSOCOCCLUS	29	10	--	-	28	3	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	96	10	--	-
....CRYPTOMONADACEAE								
....CRYPTOMONAS	14	5	--	-	--	-	41	2
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	86#	30	--	-	220#	22	83	5
....HORMOGONALES								
....NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	730#	43
....OSCILLATORIACEAE								
....OSCILLATORIA	--	-	1000#	77	230#	23	140	8

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	NOV 15,79 0950		MAR 19,80 1300		MAY 14,80 1045		JUN 12,80 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	55	3
....TRACHELOMONAS	14	5	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PEPIDIINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	220*	16	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	JUL 10,80 1245	AUG 14,80 1230	SEP 3,80 0915
TOTAL CELLS/ML	5200	2600	550
DIVERSITY: DIVISION	0.8	1.2	1.1
..CLASS	0.8	1.2	1.1
...ORDER	1.2	1.9	1.7
...FAMILY	1.4	2.2	2.1
...GENUS	1.5	2.2	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA	--	-	--	-	--	-
...HYDRODICTYACEAE						
...PEDIASTRUM	--	-	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS	3700#	72	160	6	52	9
...KIRCHNERIELLA	37	1	26	1	52	9
...OOCYSTIS	--	-	--	-	--	-
...TETRAEDRON	--	-	*	0	--	-
...WESTELLA	--	-	--	-	--	-
...SCENEDESMACEAE						
...ACTINASTRUM	--	-	--	-	--	-
...CRUCIGENIA	--	-	--	-	100#	19
...SCENEDESMUS	220	4	390	15	52	9
...TETRASPORALES						
...PALMELLACEAE						
...GLOEOCYSTIS	--	-	--	-	--	-
...SPHAEROCYSTIS	--	-	320	12	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	74	1	65	2	13	2
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCEAE						
...CYCLOTELLA	37	1	100	4	--	-
...PENNIALES						
...ACHNANTHACEAE						
...ACHNANTHES	37	1	*	0	--	-
...COCCONEIS	--	-	*	0	13	2
...CYMBELLACEAE						
...CYMBELLA	--	-	--	-	--	-
...EUNOTIACEAE						
...FUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
...FRAGILARIA	--	-	--	-	--	-
...SYNEDRA	--	-	--	-	--	-
...GOMPHONEMACEAE						
...GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
...NAVICULA	--	-	--	-	--	-
...NITZSCHACEAE						
...NITZSCHIA	--	-	*	0	--	-
...SURIPELLACEAE						
...SURIPELLA	--	-	--	-	--	-
...TABELLARIACEAE						
...TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...CHROMULINACEAE						
...CHRYSOCOCCLUS	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
...CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...AGMENELLUM	150	3	--	-	--	-
...ANACYSTIS	440	9	1400#	53	64	12
...HORMOGONALES						
...NOSTOCACEAE						
...ANABAENA	--	-	--	-	--	-
...OSCILLATORIACEAE						
...OSCILLATORIA	480	9	120	4	210#	37

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	JUL 10,80 1245		AUG 14,80 1230		SEP 3,80 0915	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....EUGLENA	--	-	--	-	--	-
.....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
....GLENODINIACEAE						
.....GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	93	91	92	99	96	97	80	79	79	---	---	---
2	92	88	90	103	99	101	80	78	79	---	---	---
3	112	90	92	107	90	102	78	77	78	---	---	---
4	97	91	93	91	65	75	80	77	78	---	---	---
5	91	88	90	69	63	65	83	80	81	---	---	---
6	115	85	89	71	65	69	106	83	86	---	---	---
7	85	81	83	73	69	71	86	82	84	---	---	---
8	83	77	81	78	72	75	81	73	77	---	---	---
9	79	75	77	84	76	79	79	75	76	---	---	---
10	79	76	77	83	79	81	80	78	79	---	---	---
11	84	79	82	83	76	80	85	77	82	---	---	---
12	81	75	77	75	62	68	89	77	81	---	---	---
13	77	72	74	64	61	62	104	80	90	---	---	---
14	77	74	76	68	64	67	---	---	---	---	---	---
15	75	73	74	73	68	69	---	---	---	---	---	---
16	74	71	72	81	76	78	---	---	---	---	---	---
17	75	71	73	84	78	81	---	---	---	80	77	79
18	79	74	75	78	75	76	---	---	---	82	80	81
19	81	77	79	75	73	74	---	---	---	84	82	83
20	86	81	84	80	73	76	---	---	---	87	84	86
21	87	85	86	86	79	84	---	---	---	88	85	86
22	86	83	84	85	77	81	---	---	---	84	82	84
23	85	83	84	78	77	77	---	---	---	90	84	87
24	93	84	86	77	75	76	---	---	---	94	91	92
25	93	87	91	78	76	77	---	---	---	94	90	92
26	97	92	94	79	78	78	---	---	---	94	89	92
27	98	95	96	81	79	80	---	---	---	95	89	91
28	96	94	95	80	78	79	---	---	---	95	90	92
29	94	92	93	80	78	79	---	---	---	95	89	91
30	93	89	91	80	78	79	---	---	---	93	89	90
31	96	90	93	---	---	---	---	---	---	90	88	89
MONTH	115	71	85	107	61	78	106	73	81	95	77	88
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	92	88	89	120	108	116	62	60	61	66	63	65
2	91	88	89	125	116	122	62	61	61	69	66	67
3	92	88	89	124	114	120	65	61	63	72	68	70
4	92	89	90	119	110	114	70	63	66	73	70	71
5	113	88	94	121	110	114	62	57	59	76	71	74
6	---	---	---	131	122	127	59	57	58	84	72	79
7	---	---	---	134	132	133	64	58	61	86	82	84
8	120	116	117	133	121	130	67	63	65	85	83	84
9	118	109	115	127	116	122	69	67	68	83	79	81
10	121	104	116	118	116	117	71	55	65	80	75	78
11	118	105	109	116	107	111	56	54	55	81	76	79
12	105	97	102	121	115	118	62	55	58	74	70	71
13	110	91	99	121	115	119	61	58	60	73	67	70
14	117	108	113	121	113	115	62	58	59	76	72	74
15	123	117	121	128	112	119	64	62	63	79	74	76
16	139	121	126	114	107	110	63	62	62	81	78	80
17	137	119	127	107	96	100	66	61	63	80	79	80
18	131	114	119	96	68	89	67	66	67	81	75	78
19	115	106	110	68	64	66	70	67	68	75	72	73
20	117	113	116	66	61	63	70	68	69	89	71	80
21	113	112	113	74	64	69	71	69	70	89	86	88
22	121	114	117	73	49	57	75	70	73	86	78	81
23	123	119	122	84	57	73	75	73	74	83	78	80
24	124	114	120	54	49	51	75	73	74	82	80	82
25	114	107	109	52	50	51	76	73	75	81	74	76
26	107	100	104	56	51	54	76	75	75	75	73	74
27	104	100	103	58	56	57	75	73	74	76	73	74
28	107	103	105	60	57	58	74	68	72	78	75	77
29	115	108	112	60	58	59	72	61	67	81	78	80
30	---	---	---	61	59	60	64	60	62	84	81	82
31	---	---	---	61	60	61	---	---	---	85	83	84
MONTH	139	88	109	134	49	93	76	54	66	89	63	77

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	88	84	86	93	90	91	160	152	156	216	212	214
2	88	85	87	95	93	94	152	145	148	228	217	222
3	85	83	84	94	93	94	167	150	156	229	204	217
4	94	84	88	97	93	95	169	164	167	203	179	192
5	96	93	95	98	94	97	166	152	157	178	161	169
6	95	91	92	97	94	95	152	141	146	160	153	155
7	96	92	94	97	93	95	145	138	141	171	153	159
8	95	87	91	97	95	96	155	141	145	198	171	185
9	86	78	82	100	95	97	172	154	162	212	198	206
10	80	75	77	103	100	101	183	172	176	216	211	213
11	80	78	79	108	103	106	186	178	183	211	197	206
12	82	80	81	109	107	108	186	182	184	196	174	186
13	83	81	82	110	109	109	182	159	167	173	167	170
14	86	84	85	116	110	112	164	158	161	187	170	176
15	91	87	89	116	111	113	165	159	162	207	188	196
16	93	91	91	112	107	109	179	166	173	214	207	210
17	91	86	88	112	107	108	184	178	182	223	215	218
18	91	86	88	117	110	113	194	183	189	218	190	210
19	98	92	95	131	117	123	198	195	196	197	170	183
20	101	98	100	140	132	137	196	178	188	186	170	175
21	104	102	103	147	141	144	178	157	165	221	187	202
22	103	98	101	148	143	146	180	158	166	234	222	230
23	99	96	97	143	134	138	191	182	189	233	226	229
24	96	92	94	134	129	131	197	190	193	228	222	224
25	92	90	91	143	131	136	205	198	201	221	207	214
26	92	89	91	157	144	150	206	198	203	207	187	196
27	94	91	92	164	158	162	201	182	190	186	181	183
28	95	92	93	169	165	166	182	165	172	217	184	193
29	94	93	93	171	157	165	168	160	164	229	219	226
30	93	91	92	164	143	151	177	163	168	236	218	223
31	---	---	---	155	141	144	211	178	191	---	---	---
MONTH	104	75	90	171	90	120	211	138	172	236	153	199
YEAR	236	49	107									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	16.5	16.5	9.5	7.5	8.5	6.0	4.5	5.5	---	---	---
2	18.0	16.5	17.0	10.0	8.0	9.0	4.5	3.0	4.0	---	---	---
3	17.0	16.5	16.5	10.5	10.0	10.5	3.0	2.0	2.5	---	---	---
4	18.0	16.0	17.0	11.0	10.0	10.5	2.5	1.5	2.0	---	---	---
5	17.5	16.5	17.0	10.0	9.0	9.5	2.0	1.0	2.0	---	---	---
6	17.5	16.0	16.5	9.0	8.0	8.5	4.0	2.0	3.0	---	---	---
7	16.0	15.0	15.5	8.5	7.5	8.0	5.0	4.0	4.5	---	---	---
8	15.0	13.5	14.5	8.5	7.5	8.0	5.5	4.0	5.0	---	---	---
9	13.5	12.5	13.0	8.5	8.0	8.0	4.0	3.0	3.5	---	---	---
10	12.5	10.0	11.0	10.0	8.5	9.5	3.0	2.0	2.5	---	---	---
11	10.0	9.0	9.5	10.5	10.0	10.5	3.0	1.5	2.5	---	---	---
12	9.0	8.5	8.5	10.5	10.0	10.0	4.0	2.5	3.0	---	---	---
13	9.0	8.5	9.0	10.0	9.0	9.5	4.0	3.5	4.0	---	---	---
14	10.0	8.5	9.0	9.0	8.0	8.5	---	---	---	---	---	---
15	9.5	8.5	9.0	8.0	7.0	7.5	---	---	---	---	---	---
16	10.0	8.5	9.0	7.0	5.5	6.5	---	---	---	---	---	---
17	10.0	8.5	9.5	6.0	5.5	6.0	---	---	---	3.5	3.0	3.0
18	11.0	9.5	10.5	6.0	5.5	5.5	---	---	---	3.5	3.0	3.0
19	11.5	10.0	11.0	6.5	5.5	6.0	---	---	---	4.0	3.5	3.5
20	12.5	11.0	11.5	7.0	5.5	6.5	---	---	---	4.0	3.0	3.5
21	13.5	12.0	12.5	7.5	6.5	7.0	---	---	---	3.0	2.0	2.5
22	14.5	13.0	13.5	8.0	7.0	7.5	---	---	---	2.0	1.5	2.0
23	15.5	14.0	14.5	9.0	8.0	8.5	---	---	---	2.5	1.5	2.0
24	16.0	14.5	15.0	10.0	8.5	9.5	---	---	---	1.5	.5	1.0
25	15.0	13.5	14.5	11.0	9.5	10.5	---	---	---	1.0	.0	.5
26	13.5	11.5	13.0	12.5	11.0	11.5	---	---	---	1.0	.0	.5
27	11.5	9.5	11.0	12.0	11.0	11.5	---	---	---	1.5	.0	.5
28	9.5	9.0	9.5	11.5	10.5	11.0	---	---	---	1.5	.5	.5
29	9.5	8.5	9.0	10.0	8.5	9.5	---	---	---	2.0	.0	.5
30	9.5	8.0	9.0	8.0	6.5	7.5	---	---	---	1.5	.0	.5
31	9.5	8.0	8.5	---	---	---	---	---	---	3.0	1.5	2.0
MONTH	18.0	8.0	12.5	12.5	5.5	8.5	6.0	1.0	3.5	4.0	.0	1.5

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	4.0	.5	2.5	1.5	.0	.5	7.5	4.5	7.0	12.5	12.0	12.0
2	4.5	.0	2.5	2.0	.0	1.0	7.0	6.5	7.0	13.0	12.0	12.5
3	4.5	1.0	3.0	2.0	.0	.5	8.0	6.0	7.0	14.5	12.0	13.5
4	4.5	.0	2.5	3.0	.0	1.5	8.0	7.5	7.5	16.0	14.0	15.0
5	5.0	1.5	3.0	2.5	1.0	1.5	8.5	7.5	8.0	17.0	15.0	16.0
6	---	---	---	4.5	2.0	3.0	9.5	7.0	8.5	18.0	15.5	16.5
7	---	---	---	5.0	2.5	3.5	10.0	8.5	9.5	18.0	16.0	16.5
8	1.5	.0	1.0	5.0	4.5	5.0	10.0	9.5	9.5	16.0	14.5	15.5
9	1.5	.0	.5	7.0	4.5	5.5	10.0	9.5	10.0	15.5	14.0	14.5
10	1.5	.0	.5	7.0	4.5	5.5	10.0	10.0	10.0	16.0	13.5	14.5
11	1.5	.0	.5	7.0	4.5	6.0	12.0	9.5	11.0	15.0	14.5	14.5
12	2.0	.5	1.0	5.5	3.5	4.5	12.0	10.5	11.5	16.0	14.0	15.0
13	2.0	.0	1.0	5.0	2.5	3.5	13.0	11.5	12.5	16.5	15.0	15.5
14	2.5	.5	1.0	3.5	2.5	3.0	12.5	11.5	12.0	18.0	16.0	17.0
15	2.5	.5	1.5	3.5	2.0	2.5	12.5	11.0	11.5	18.0	16.0	17.0
16	2.0	1.0	1.5	3.5	1.5	2.5	12.0	11.0	11.5	19.0	16.0	17.0
17	2.0	.5	1.0	4.5	2.5	3.5	10.5	9.5	10.0	19.0	16.0	17.5
18	2.0	.0	1.0	5.5	4.5	5.0	10.5	9.0	10.0	17.0	16.5	17.0
19	2.5	.0	1.0	5.0	4.0	4.5	11.5	9.5	10.5	18.5	16.0	17.0
20	3.0	.5	2.0	5.5	4.0	5.0	12.5	10.5	11.5	19.5	17.0	18.0
21	3.5	1.5	2.5	6.5	5.5	6.0	14.0	12.0	13.0	18.5	17.0	17.5
22	2.5	2.0	2.0	6.5	4.0	5.0	13.5	12.5	13.0	19.0	16.5	18.0
23	4.5	2.5	3.0	6.0	3.5	4.5	12.5	10.5	11.5	20.0	17.5	19.0
24	4.0	3.0	3.5	6.0	5.0	5.5	11.5	10.0	10.5	21.0	19.0	20.0
25	3.5	2.5	3.0	6.0	5.5	5.5	12.0	10.5	11.5	22.0	19.5	20.5
26	4.0	1.5	3.0	6.0	5.0	5.5	12.5	12.0	12.0	20.5	19.0	19.5
27	2.5	1.5	2.0	6.5	5.5	6.0	12.5	11.5	12.0	20.5	18.0	19.0
28	2.5	1.0	1.5	7.0	5.5	6.5	11.5	10.5	11.0	20.5	17.5	19.0
29	2.0	.0	1.0	7.5	6.5	7.0	11.0	10.5	10.5	20.5	17.0	19.0
30	---	---	---	8.0	7.5	8.0	12.0	10.5	11.0	20.5	17.5	19.0
31	---	---	---	8.0	6.5	7.0	---	---	---	20.0	18.0	19.0
MONTH	5.0	.0	2.0	8.0	.0	4.5	14.0	4.5	10.5	22.0	12.0	17.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	22.0	18.5	20.0	23.5	20.0	21.5	26.5	24.0	25.5	26.0	23.5	24.5
2	21.0	20.0	20.5	22.5	20.5	21.5	28.0	24.5	26.0	27.0	23.5	25.0
3	21.5	20.0	20.5	22.0	20.5	21.5	28.0	24.5	26.0	26.5	23.5	25.0

POQUONOCK RIVER BASIN

57

01119040 POQUONOCK RIVER NEAR GROTON, CT

LOCATION.--Lat 41°19'00", long 72°03'43", New London County, Hydrologic Unit 01100003, at pier on east side of Avery Point, University of Connecticut, 2 mi (3 km) south of Groton, at mouth of Poquonock River in Long Island Sound.

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Datum of staff gage is 2.02 ft (0.616 m) below National Geodetic Vertical Datum. Datum of gage-height record is 10.00 ft (3.048 m) below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 6.63 ft (2.021 m) Feb. 6, 1978; minimum, -5.02 ft (-1.530 m) Feb. 2, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum tidal elevation, 9.7 ft (2.96 m) Sept. 21, 1938 at site 2.7 mi (4.3 km) upstream on Thames River at New London Pier and at same datum, gage operated by National Ocean Survey.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation, 3.57 ft (1.088 m) Jan. 17; minimum, -3.98 ft (-1.213 m) Mar. 16.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	3.31	2.72	2.22	3.57	2.81	3.75	2.77	2.74	2.53	2.59	2.58	2.80
	Date	5	3	3	17	16	14	28	2	29	29	23	26
	Time	2130	0730	0815	0815	0915	0700	2030	2245	2145	2245	1915	1000
Minimum low tide	Elevation	-3.00	-2.14	-2.99	-2.71	-2.47	-3.98	-2.48	-1.91	-2.04	-1.49	-1.65	-2.40
	Date	8	17	8	12	18	16	17	16,17	13	2,28	27	27
	Time	1615	1400	1915	2300	1715	0230	0515	0445 0545	0400	0630 0345	0400	0445

NOTE.--Time shown is eastern standard.

THAMES RIVER BASIN

01119375 WILLIMANTIC RIVER AT MERROW, CT

LOCATION.--Lat 41°50'07", long 72°18'38", Tolland County, Hydrologic Unit 01100002, at bridge on State Highway 195, 0.7 mi (1.1 km) upstream from Merrow, 0.8 mi (1.3 km) downstream from Newcomb Brook, and 1.5 mi (2.4 km) upstream from Winding Brook.

DRAINAGE AREA.--94.0 mi² (243.5 km²).

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01119500, 8.0 mi (13 km) downstream, and adjusting its discharge by multiplying by a factor of 0.77, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
09...	1130	145	68	7.1	15.5	10.0	70	1.0	10.5	93	4000	--
NOV												
16...	1415	212	65	6.3	3.0	6.5	30	1.0	12.3	99	2400	--
DEC												
10...	1435	145	66	6.4	6.0	2.5	30	1.0	14.4	105	15000	--
JAN												
18...	0955	138	69	6.3	7.0	2.0	10	1.0	13.9	100	520	120
FEB												
13...	1435	51	86	6.5	2.5	.0	5	1.0	15.2	104	320	K14
MAR												
21...	1000	347	59	6.6	9.5	3.0	20	2.0	13.2	98	2500	500
APR												
14...	1020	407	51	6.4	9.0	9.0	10	1.0	11.3	97	420	52
MAY												
13...	1510	194	55	6.5	24.0	14.5	10	1.0	11.0	107	1400	80
JUN												
16...	1040	77	74	7.0	17.0	18.5	330	5.0	9.3	99	2400	760
JUL												
15...	1315	29	90	6.8	30.5	24.0	20	2.0	9.6	113	13000	220
AUG												
15...	0930	50	103	6.5	23.0	20.5	30	2.0	8.4	94	60000	400
SEP												
02...	1010	22	111	6.4	29.5	24.0	5	1.0	7.7	92	26000	900

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
09...	230	520	16	9	4.1	1.4	7	7.5	10	9.8	62	.08
NOV												
16...	480	54	--	--	--	--	--	--	8.0	--	60	.08
DEC												
10...	2100	120	--	--	--	--	--	--	8.2	--	49	.07
JAN												
18...	--	160	14	11	3.7	1.2	3	9.4	8.3	9.4	46	.06
FEB												
13...	--	38	--	--	--	--	--	--	12	--	54	.07
MAR												
21...	--	140	--	--	--	--	--	--	6.2	--	50	.07
APR												
14...	--	80	11	1	2.8	1.0	10	8.2	6.3	6.9	41	.06
MAY												
13...	--	20	--	--	--	--	--	--	6.6	--	40	.05
JUN												
16...	--	880	--	--	--	--	--	--	9.1	--	48	.07
JUL												
15...	--	92	18	7	4.7	1.5	11	9.9	13	8.4	63	.09
AUG												
15...	--	260	--	--	--	--	--	--	11	--	66	.09
SEP												
02...	--	260	--	--	--	--	--	--	15	--	73	.10

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

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01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 09...	24.3	66	--	--	.17	.01	.01	.43	.44	.61	2.7
NOV 16...	34.3	54	.16	.00	.16	.02	.02	.41	.43	.59	2.6
DEC 10...	19.2	56	.19	.01	.20	.08	.10	.23	.31	.51	2.3
JAN 18...	17.1	49	--	--	.25	.13	.16	.10	.23	.48	2.1
FEB 13...	7.44	62	.21	.01	.22	.19	.23	.34	.53	.75	3.3
MAR 21...	46.8	45	.27	.00	.27	.10	.12	.26	.36	.63	2.8
APR 14...	45.1	43	--	--	.18	.00	.00	.21	.21	.39	1.7
MAY 13...	21.0	62	.12	.00	.12	.03	.04	.10	.13	.25	1.1
JUN 16...	9.98	92	.43	.00	.43	.00	.00	.51	.51	.94	4.2
JUL 15...	4.93	68	--	--	.35	.01	.01	.09	.10	.45	2.0
AUG 15...	8.91	72	.39	.01	.40	.06	.07	.07	.13	.53	2.3
SEP 02...	4.34	82	.54	.00	.54	.05	.06	.26	.31	.85	3.8

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 09...	.040	.12	27	370	30	7	5.9	.00	.000	.000
NOV 16...	.020	.06	10	--	--	20	9.3	--	--	--
DEC 10...	.020	.06	10	--	--	0	3.6	--	--	--
JAN 18...	.020	.06	17	120	20	30	3.3	.00	.000	.000
FEB 13...	.070	.21	28	--	--	10	1.5	--	--	--
MAR 21...	.020	.06	8	--	--	10	4.4	--	--	--
APR 14...	.030	.09	3	80	20	10	3.4	--	1.27	.000
MAY 13...	.020	.06	8	--	--	10	3.9	--	--	--
JUN 16...	.030	.09	17	--	--	10	4.0	--	--	--
JUL 15...	.060	.18	12	290	20	10	8.0	.00	.000	.000
AUG 15...	.060	.18	11	--	--	0	5.3	--	--	--
SEP 02...	.050	.15	10	--	--	0	3.9	--	--	--

LOCATION.--Lat 41°45'02", long 72°15'58", Tolland County, Hydrologic Unit 01100002, on left bank 700 ft (213 m) upstream from bridge on State Highway 31, 1 mi (2 km) downstream from Mill Brook, 2.4 mi (3.9 km) southeast of South Coventry, 2.8 mi (4.5 km) upstream from Hop River, and 6.3 mi (10.1 km) upstream from mouth.

DRAINAGE AREA.--122 mi² (316 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1931 to current year.

REVISED RECORDS.--WSP 781: 1934 (m), drainage area. WSP 851: 1935-36. WSP 1201: 1932 (M,m), 1933-34, 1937, 1939-42, NDR 79-1: 1978 (m).

GAGE.--Water-stage recorder. Datum of gage is 239.05 ft (72.862 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Water-discharge record good. Natural flow of stream regulated by Staffordville Reservoir (see p.121). High streamflow regulated by six flood-detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft³ (8,649,000 m³).

AVERAGE DISCHARGE (adjusted for storage since water year 1961).--49 years, 213 ft³/s (6.032 m³/s), 23.71 in/yr (602 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,200 ft³/s (685 m³/s) Aug. 19, 1955, gage height, 18.66 ft (5.688 m), from flood mark, from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of computation of flow over dam at gage height 12.2 ft (3.72 m), and contracted-opening measurement of peak flow; minimum, 2.0 ft³/s (0.057 m³/s) Aug. 21, 22, 1949, Oct. 1, 1978; minimum gage height, 1.60 ft (0.488 m) Aug. 21, 22, 1949; minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 18, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

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. 18	1830	1760	49.8	Apr. 10	1730	2210	62.6
22	1400	*3780	107				8.24
			*9.92				2.512

Minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 12, gage height, 2.73 ft (0.832 m); minimum daily, 22 ft³/s (0.62 m³/s) Sept. 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	134	199	198	102	72	479	351	88	203	167	30
2	324	132	178	177	93	67	408	302	93	136	119	28
3	287	393	172	183	72	67	371	265	111	106	171	28
4	391	565	178	160	70	67	507	242	152	88	131	26
5	315	380	166	160	79	67	616	220	134	73	117	26
6	326	279	172	134	82	70	469	211	106	120	129	26
7	241	240	282	127	85	91	404	205	140	93	150	26
8	183	218	280	156	80	125	357	354	160	68	108	25
9	175	208	220	138	77	205	348	417	138	76	86	23
10	256	250	178	136	73	163	1720	307	125	69	70	24
11	291	304	65	142	69	704	1490	256	124	65	85	22
12	303	606	181	401	68	420	876	242	109	51	108	22
13	364	476	173	297	66	258	650	249	94	46	89	22
14	273	393	201	238	65	244	540	249	82	41	70	22
15	230	337	148	224	64	217	685	220	73	38	66	23
16	203	288	154	209	75	163	627	198	117	44	62	23
17	178	250	257	187	91	192	490	179	136	73	50	22
18	166	228	240	177	102	1270	414	158	97	56	44	61
19	163	221	182	183	109	972	365	187	79	43	46	49
20	147	213	117	165	101	570	340	185	70	38	48	33
21	124	207	156	154	99	650	332	194	68	38	48	29
22	151	197	167	154	106	3210	299	240	63	35	45	27
23	131	183	159	161	119	1880	282	209	57	85	41	25
24	152	184	170	142	112	1200	270	161	52	134	39	28
25	160	180	401	124	104	935	258	138	49	82	36	22
26	152	227	562	125	95	737	251	120	46	61	33	30
27	142	390	389	104	85	595	242	108	44	48	29	30
28	133	313	299	104	82	511	277	101	39	40	27	32
29	148	258	256	117	77	462	521	93	44	302	26	29
30	152	222	226	102	---	570	452	88	240	521	28	28
31	139	---	213	91	---	570	---	85	---	299	28	---
TOTAL	6522	8476	6741	5170	2502	17324	15340	6534	2930	3172	2296	841
MEAN	210	283	217	167	86.3	559	511	211	97.7	102	74.1	28.0
MAX	391	606	562	401	119	3210	1720	417	240	521	171	61
MIN	122	132	65	91	64	67	242	85	39	35	26	22
(+)	+5.8	0	0	+7.7	0	0	0	0	0	0	-6.6	0
MEAN†	216	283	217	168	86.3	559	511	211	97.7	102	74.5	28.0
CFSM†	1.77	2.32	1.78	1.38	0.71	4.58	4.19	1.73	0.80	0.84	0.55	0.23
IN†	2.04	2.59	2.05	1.59	0.77	5.28	4.68	1.99	0.89	0.97	0.63	0.26
CAL YR 1979 TOTAL	113566											
WTR YR 1980 TOTAL	77848											
MEAN 311												
MAX 4110												
MIN 22												
MEAN† 311												
213												
CFSM† 2.55												
IN† 34.71												
CFSM† 1.75												
IN† 23.74												

† Change in contents, equivalent in cubic feet per second, in Staffordville Reservoir.

‡ Adjusted for change in contents.

THAMES RIVER BASIN

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01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-57, 1963-64, 1975 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1975 to September 1980 (discontinued).

WATER TEMPERATURES: October 1956 to September 1957, May 1975 to September 1980 (discontinued).

INSTRUMENTATION.--Water-quality monitor since May 1975.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 345 micromhos Sept. 13, 1978; minimum, 34 micromhos Nov. 5, 7, 1979, July 30-31, 1980.

WATER TEMPERATURES: Maximum, 31.5°C July 21, 1976; minimum, 0.0°C on many days during Jan. 1957 and winter period of 1975-79.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 260 micromhos Dec. 18; minimum, 34 micromhos Nov. 5, 7, July 30-31.

WATER TEMPERATURES: Maximum, 31.0°C July 21-22; minimum, 0.0°C on several days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	86	76	83	65	56	60	106	92	100			
2	77	62	66	74	68	70	98	87	91			
3	74	63	70	92	58	71	100	80	92			
4	67	53	57	79	45	60	78	57	64			
5	59	55	57	57	34	46	61	56	59			
6	64	60	62	53	36	47	58	53	55			
7	67	65	66	70	34	47	103	53	68			
8	70	67	68	103	74	93	137	104	124			
9	71	66	69	98	89	93	138	109	128			
10	67	64	65	131	88	101	105	71	85			
11	63	58	60	138	106	126	86	66	78			
12	56	43	51	104	57	71	93	77	84			
13	45	38	42	58	50	52	170	80	120			
14	---	---	---	70	53	61	195	169	182			
15	---	---	---	80	72	78	172	129	154			
16	---	---	---	155	74	103	128	75	107			
17	---	---	---	161	90	135	188	75	111			
18	---	---	---	87	81	83	260	199	238			
19	---	---	---	131	83	112	214	148	178			
20	---	---	---	129	111	121	150	107	129			
21	---	---	---	144	108	121	108	75	93			
22	---	---	---	157	108	134	79	61	72			
23	---	---	---	111	100	103	---	---	---			
24	64	46	56	135	110	124	---	---	---			
25	64	54	58	136	115	122	---	---	---			
26	55	42	48	214	136	180	---	---	---			
27	---	---	---	207	165	190	---	---	---			
28	---	---	---	186	136	165	---	---	---			
29	---	---	---	147	135	142	---	---	---			
30	---	---	---	141	108	127	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	86	38	61	214	34	101	260	53	110			

THAMES RIVER BASIN

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	58	56	57	69	66	68
2				---	---	---	58	57	58	71	68	69
3				---	---	---	62	58	60	74	69	71
4				---	---	---	64	61	63	76	73	74
5				---	---	---	69	56	60	77	73	75
6				---	---	---	58	56	57	79	75	77
7				---	---	---	59	57	58	82	77	79
8				---	---	---	62	59	61	82	74	78
9				---	---	---	69	62	64	73	70	72
10				112	81	96	70	57	63	71	68	70
11				108	89	97	57	52	53	70	69	70
12				105	87	95	56	53	54	74	70	72
13				87	82	84	60	57	58	75	73	74
14				87	82	85	62	59	60	75	72	74
15				91	82	86	64	62	63	76	73	75
16				87	83	86	62	59	61	77	74	75
17				82	80	81	61	58	60	77	75	76
18				96	67	77	63	60	62	76	76	76
19				124	94	102	66	62	64	79	76	78
20				127	58	93	68	64	65	79	77	78
21				69	51	55	69	66	67	78	76	77
22				79	37	55	68	66	67	77	74	76
23				44	35	39	69	66	67	78	73	75
24				45	40	42	71	67	69	78	76	77
25				50	42	47	74	71	72	79	77	78
26				50	47	49	74	72	73	79	78	78
27				54	50	52	74	73	73	83	78	80
28				56	52	54	74	72	73	85	81	83
29				56	55	55	72	67	70	87	84	85
30				58	56	57	67	66	67	89	86	87
31				59	56	58	---	---	---	90	86	88
MONTH				127	35	70	74	52	63	90	66	76
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	102	90	95	75	68	71	41	36	38	126	122	124
2	110	102	105	69	62	65	45	42	43	129	125	126
3	109	96	104	61	59	60	51	45	48	133	129	131
4	96	91	93	61	57	59	57	53	55	139	132	134
5	91	87	89	62	57	60	60	58	59	141	139	140
6	---	---	---	62	58	60	62	60	61	143	135	140
7	---	---	---	70	57	62	65	61	63	135	128	130
8	---	---	---	71	67	69	69	66	67	133	127	129
9	---	---	---	78	68	72	73	70	71	133	129	131
10	---	---	---	86	76	82	77	74	75	137	131	133
11	---	---	---	92	83	87	80	77	78	144	132	135
12	---	---	---	103	88	94	82	81	81	146	139	142
13	---	---	---	108	92	100	83	82	83	147	135	141
14	---	---	---	96	89	94	87	85	85	140	131	135
15	---	---	---	113	92	101	90	89	89	136	128	131
16	87	79	82	137	116	127	92	88	89	144	133	141
17	80	76	77	170	132	153	98	93	95	146	138	143
18	79	75	76	192	174	184	104	99	101	145	123	131
19	94	80	87	193	187	191	110	105	107	135	124	130
20	102	94	98	184	106	135	115	110	111	135	127	131
21	110	103	106	107	86	93	117	113	115	133	129	131
22	117	110	114	136	90	111	116	112	114	135	131	132
23	121	116	118	138	56	88	116	112	114	141	134	137
24	126	117	121	63	52	54	118	114	116	139	130	134
25	130	124	126	57	53	55	122	117	119	137	132	135
26	132	111	122	78	58	69	124	121	123	140	132	137
27	120	106	112	90	80	85	124	122	123	133	127	130
28	120	104	115	98	87	91	123	121	122	128	126	127
29	98	89	94	105	37	77	123	121	122	129	125	127
30	94	79	88	43	34	37	124	121	122	132	130	132
31	---	---	---	36	34	35	126	123	124	---	---	---
MONTH	132	75	101	193	34	88	126	36	91	147	122	133
YEAR	260	34	90									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	15.5	14.5	15.0	8.5	7.0	7.5	6.0	5.0	5.5	2.0	1.0	1.5
2	15.0	14.0	14.5	9.0	7.0	8.0	5.0	4.0	4.5	1.5	1.0	1.0
3	15.0	14.0	14.5	10.0	9.0	9.5	3.5	3.0	3.5	1.5	1.0	1.0
4	14.5	14.0	14.0	9.5	8.0	8.5	3.5	2.5	3.0	2.5	1.0	2.0
5	15.0	14.5	14.5	8.0	7.0	7.5	3.5	2.5	3.0	2.0	1.5	1.5
6	15.0	13.5	14.5	7.0	6.0	6.5	3.5	2.5	3.0	2.5	1.5	2.0
7	13.5	12.0	13.0	7.5	6.0	7.0	5.0	3.5	4.0	3.0	1.0	2.0
8	12.0	10.0	11.0	8.0	7.0	7.0	5.0	4.0	4.5	1.0	.5	.5
9	10.0	9.0	9.5	8.0	7.0	7.5	4.0	2.5	3.0	2.5	.5	1.5
10	9.0	7.0	8.0	10.0	8.0	9.5	2.5	2.0	2.5	2.5	1.5	2.0
11	6.5	6.0	6.5	10.5	9.5	10.0	3.0	2.5	2.5	2.5	1.5	2.0
12	6.5	5.5	6.0	9.5	8.5	9.0	4.5	2.5	3.5	2.0	.5	1.0
13	6.5	5.5	6.0	9.0	8.0	8.5	5.0	4.0	4.5	1.5	.5	1.0
14	7.0	6.0	6.5	8.0	7.5	8.0	5.0	3.0	4.0	1.0	.5	1.0
15	7.0	6.0	6.5	7.5	6.5	7.0	3.5	2.5	3.0	2.5	1.0	2.0
16	8.0	6.0	7.0	8.5	6.5	7.0	2.5	1.5	2.0	3.0	2.0	2.5
17	8.5	7.0	8.0	7.5	6.5	7.0	1.5	1.0	1.0	2.5	2.0	2.0
18	10.0	8.5	9.0	7.5	6.5	7.0	1.5	1.0	1.5	2.5	2.0	2.5
19	10.5	9.0	10.0	8.0	7.0	7.5	1.5	1.0	1.0	3.5	2.0	2.5
20	12.0	10.5	11.0	8.0	7.0	7.5	2.0	1.0	1.5	3.0	1.5	2.5
21	14.0	11.5	13.0	8.5	7.5	8.0	2.0	1.0	1.5	2.0	1.0	1.0
22	16.0	14.0	15.0	8.5	8.0	8.5	1.0	.0	.5	1.5	.5	1.0
23	16.5	14.5	15.5	9.0	8.0	8.5	.5	.0	.0	.5	.0	.5
24	16.5	15.0	16.0	10.0	8.5	9.0	.5	.0	.0	2.5	.0	1.5
25	15.0	12.5	14.0	11.0	9.5	10.5	2.5	.5	1.5	3.0	1.5	2.0
26	12.5	9.5	11.5	12.5	11.0	12.0	3.0	2.5	2.5	2.5	1.0	1.5
27	9.5	7.5	9.0	12.5	11.0	12.0	2.5	2.0	2.0	2.5	.5	1.5
28	7.5	6.5	7.0	11.0	9.5	10.0	2.0	1.0	1.5	2.5	.5	1.0
29	8.0	6.0	7.0	9.5	8.0	9.0	1.5	1.0	1.0	2.0	.5	1.0
30	9.0	7.0	8.0	8.0	6.0	7.0	2.0	1.5	2.0	2.0	.5	1.0
31	9.0	7.0	8.0	---	---	---	2.0	1.0	1.5	2.0	1.0	1.5
MONTH	16.5	5.5	10.5	12.5	6.0	8.5	6.0	.0	2.5	3.5	.0	1.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	1.0	1.0	3.5	1.5	2.0	7.0	4.5	5.5	13.0	12.5	12.5
2	2.0	1.0	1.0	4.0	1.5	2.5	7.0	5.0	6.0	13.5	12.0	13.0
3	2.0	.5	1.5	5.0	1.5	2.5	7.5	4.5	6.0	16.5	12.5	14.5
4	2.5	1.0	1.5	5.5	1.5	3.0	7.5	7.0	7.0	17.5	14.5	15.5
5	2.0	.5	1.0	3.0	1.5	2.5	6.5	6.0	6.5	18.5	14.5	16.0
6	2.5	.5	1.5	5.0	1.5	2.5	8.0	5.5	7.0	18.5	15.0	16.5
7	2.0	1.5	2.0	4.5	1.5	3.0	9.0	7.5	8.5	18.0	14.5	16.0
8	3.0	.0	1.5	2.5	1.5	2.0	9.0	8.5	9.0	15.0	13.5	14.5
9	3.0	.0	1.5	3.0	1.0	1.5	9.5	8.5	9.0	14.0	12.5	13.5
10	3.5	1.0	2.0	6.0	1.0	3.5	9.5	9.0	9.0	15.0	13.0	14.0
11	3.0	1.0	2.0	4.5	3.0	3.5	11.0	8.5	10.0	14.5	13.0	14.0
12	3.0	1.5	2.0	3.5	2.5	3.0	11.0	9.5	10.5	15.0	13.0	14.0
13	3.5	1.0	2.0	3.5	2.0	2.5	12.0	10.5	11.0	16.0	14.5	15.5
14	3.5	1.0	2.5	3.0	1.5	2.5	11.5	9.5	10.5	17.5	15.5	16.5
15	3.5	1.5	2.0	3.5	1.5	2.5	13.0	9.5	11.5	17.5	15.0	16.0
16	2.0	1.0	1.5	4.5	1.5	3.0	12.5	9.5	11.0	18.0	14.5	16.0
17	2.5	1.0	1.5	5.0	2.5	3.5	10.0	8.0	9.5	19.0	15.0	16.5
18	2.5	1.5	1.5	4.0	3.0	3.5	10.5	9.0	10.0	17.0	16.0	16.5
19	3.0	1.0	2.0	4.0	2.0	3.0	12.0	9.5	10.5	18.0	15.5	16.5
20	3.5	1.0	2.0	4.5	3.0	4.0	13.0	11.0	12.0	19.5	17.0	18.0
21	3.0	1.0	2.0	5.0	4.5	4.5	14.5	12.5	13.0	18.0	16.0	17.0
22	1.5	.5	1.5	4.5	1.5	2.5	13.5	11.0	12.5	18.0	15.0	17.0
23	3.0	1.5	2.0	4.0	1.0	2.5	11.0	10.0	10.5	21.0	17.5	19.5
24	3.0	1.5	2.0	4.5	2.5	3.5	12.5	10.0	11.0	22.0	19.0	20.0
25	4.0	1.0	2.0	4.5	4.0	4.0	14.0	12.0	13.0	22.5	18.5	20.0
26	3.5	1.0	2.0	4.5	3.5	4.0	14.5	13.0	13.5	20.0	17.5	18.5
27	3.0	1.0	2.0	5.5	4.0	5.0	13.5	12.5	13.0	20.5	17.0	18.5
28	3.5	1.5	2.0	6.5	4.5	5.5	12.5	10.5	11.5	20.5	17.0	18.5
29	3.5	1.5	2.0	6.5	6.0	6.0	10.5	9.5	10.0	21.5	16.0	18.5
30	---	---	---	6.5	6.0	6.5	13.0	10.0	11.0	20.5	16.5	18.5
31	---	---	---	6.5	5.0	5.5	---	---	---	19.5	18.0	19.0
MONTH	4.0	.0	2.0	6.5	1.0	3.5	14.5	4.5	10.0	22.5	12.0	16.5

THAMES RIVER BASIN

65

01120500 SAFFORD BROOK NEAR WOODSTOCK VALLEY, CT

LOCATION.--Lat 41°55'35", long 72°03'37", Windham County, Hydrologic Unit 01100002, on right bank at downstream side of bridge on Hopkins Road, 0.3 mi (0.5 km) downstream from Bradford Brook, 0.3 mile (0.5 km) upstream from mouth, 1.2 mi (1.9 km) southeast of Woodstock Valley, and 2 mi (3 km) southwest of West Woodstock.

DRAINAGE AREA.--4.15 mi² (10.75 km²).

PERIOD OF RECORD.--June 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 522.92 ft (159.386 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for periods of no gage-height record Aug. 8 to Sept. 10, which are fair.

AVERAGE DISCHARGE.--30 years, 8.08 ft³/s (0.229 m³/s), 26.44 in/yr (672 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft³/s (28.3 m³/s) Aug. 19, 1955, gage height, 6.68 ft (2.036 m). No flow Aug. 30, 31, Sept. 6-12, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 18	0600	*289 8.18	*5.12 1.561
21	2400	227 6.43	4.78 1.457
Apr. 10	0630	212 6.00	4.68 1.426

Minimum discharge, 0.03 ft³/s (0.001 m³/s) Sept. 11-12; minimum gage height, 1.93 ft (0.588 m), Mar. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	2.7	6.6	3.9	1.0	.95	13	9.3	1.1	4.5	2.1	.50
2	13	2.2	6.1	3.5	.87	.90	11	7.8	1.3	2.3	2.2	.40
3	18	46	5.2	4.7	.87	.90	10	6.4	2.7	1.7	6.7	.35
4	20	35	5.0	3.5	.87	.85	18	5.4	3.3	1.3	3.5	.25
5	5.7	19	4.4	3.5	.87	.80	18	4.5	2.3	1.0	2.3	.20
6	8.7	15	5.0	2.2	.87	.80	12	4.3	1.8	1.3	3.3	.17
7	4.2	12	17	2.7	.87	.87	10	4.3	4.3	.95	2.7	.13
8	4.2	11	10	3.9	.95	6.3	9.3	15	5.4	.90	2.2	.10
9	4.4	9.8	6.4	3.7	.90	9.6	10	11	3.3	.95	1.7	.08
10	8.1	17	5.7	2.4	.90	5.5	96	7.5	3.0	.79	1.5	.06
11	11	21	5.4	4.7	.85	60	24	5.9	2.7	.79	2.0	.04
12	15	48	5.4	24	.85	25	15	5.6	2.1	.90	2.5	.05
13	20	25	5.2	12	.80	13	12	6.4	1.6	.68	1.7	.07
14	11	22	5.2	5.7	.80	7.8	12	11	1.3	.64	1.5	.07
15	6.9	17	3.9	6.0	.80	9.0	18	6.4	1.2	.60	1.3	.08
16	5.4	15	5.0	5.5	1.0	8.5	13	4.5	2.0	.64	1.2	.08
17	4.4	13	9.4	4.5	1.4	15	10	3.5	1.5	.79	1.0	.09
18	3.9	11	5.0	4.3	1.4	124	8.7	3.5	1.3	.60	.90	1.3
19	3.5	9.8	3.3	5.2	1.4	21	7.8	4.1	1.1	.56	.90	.30
20	3.9	9.1	2.7	4.7	1.2	13	7.3	3.0	1.1	.68	1.1	.26
21	3.7	8.4	2.7	3.9	.75	38	6.7	4.3	1.1	.68	1.0	.22
22	4.2	7.8	3.1	3.3	.64	96	5.9	6.4	.95	.56	.85	.22
23	2.7	7.5	3.7	3.7	.87	27	5.6	3.7	.84	1.8	.75	.20
24	5.0	6.9	5.0	3.7	1.4	20	5.4	2.6	.79	4.1	.65	.17
25	5.0	6.4	20	2.3	1.2	19	5.1	2.1	.73	1.8	.60	.15
26	3.5	13	15	1.9	1.1	17	5.1	1.7	.68	1.1	.45	.28
27	3.1	21	8.1	1.8	1.0	14	4.9	1.5	.64	.84	.40	.22
28	3.5	13	5.9	1.8	1.0	13	6.4	1.3	.64	.95	.40	.17
29	4.4	9.8	5.2	1.6	1.0	12	23	1.2	1.2	8.7	.40	.15
30	3.7	7.5	5.0	1.5	---	22	13	1.1	5.4	14	.40	.12
31	3.1	---	4.4	1.0	---	16	---	1.1	---	4.1	.45	---
TOTAL	220.4	461.9	200.0	137.1	28.43	617.77	416.2	156.4	57.37	61.20	48.65	6.48
MEAN	7.11	15.4	6.45	4.42	.98	19.9	13.9	5.05	1.91	1.97	1.57	.22
MAX	20	48	20	24	1.4	124	96	15	5.4	14	6.7	1.3
MIN	2.7	2.2	2.7	1.0	.64	.80	4.9	1.1	.64	.56	.40	.04
CFSM	1.71	3.71	1.55	1.07	.24	4.80	3.35	1.22	.46	.48	.38	.05
IN.	1.98	4.14	1.79	1.23	.25	5.54	3.73	1.40	.51	.55	.44	.06

CAL YR 1979	TOTAL	4197.48	MEAN	11.5	MAX	236	MIN	.04	CFSM	2.77	IN	37.62
WTR YR 1980	TOTAL	2411.90	MEAN	6.59	MAX	124	MIN	.04	CFSM	1.59	IN	21.61

THAMES RIVER BASIN

01121000 MOUNT HOPE RIVER NEAR WARRENVILLE, CT

LOCATION.--Lat 41°50'37", long 72°10'10", Windham County, Hydrologic Unit 01100002, on left bank 250 ft (76 m) downstream from Knowlton Brook, 700 ft (213 m) upstream from bridge on State Highway 89, 1.8 mi (2.9 km) south of Warrentonville, and 3.2 mi (5.1 km) southwest of Ashford.

DRAINAGE AREA.--28.6 mi² (74.1 km²).

PERIOD OF RECORD.-- July 1940 to current year.

REVISED RECORDS.--WSP 1331: 1941, 1951-53(M). WSP 1721: Drainage area. WDR CT-75-1: 1974(P).

GAGE.--Water-stage recorder. Datum of gage is 335.57 ft (102.282 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Occasional regulation from ponds upstream. Chemical analyses available for water year 1959 (WSP 1641).

AVERAGE DISCHARGE.--40 years, 50.8 ft³/s (1.439 m³/s), 24.12 in/yr (613 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,590 ft³/s (158 m³/s) Aug. 19, 1955, gage height, 10.41 ft (3.173 m), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.15 ft³/s (0.004 m³/s) Aug. 25, 1957; minimum gage height, 0.99 ft (0.302 m) Aug. 26-29, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1938 reached a stage of about 14.5 ft (about 4.42 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

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. 11	0630	540 15.3	5.20 1.585	Apr. 10	0630	956 27.1	6.59 2.009
18	0800	876 24.8	6.39 1.948	July 29	1800	595 16.9	5.42 1.652
22	0430	*2340 66.3	*8.54 2.603				

Minimum discharge, 2.1 ft³/s (0.059 m³/s) Sept. 24-26; minimum gage height, 1.19 ft (0.363 m) Sept. 4-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	28	49	39	13	14	101	70	13	42	23	4.1
2	83	27	40	37	13	12	87	60	13	21	18	3.4
3	62	203	37	35	13	12	78	53	24	19	41	3.1
4	75	145	36	34	13	12	152	46	20	14	25	2.7
5	65	94	36	31	13	13	148	41	15	10	15	2.5
6	120	78	36	26	13	17	100	38	12	16	19	3.1
7	63	62	79	27	13	19	84	38	40	11	31	9.5
8	47	49	57	27	14	41	74	109	45	7.8	15	9.2
9	50	45	42	24	13	61	78	90	29	8.9	10	9.2
10	73	70	39	21	13	37	585	60	27	7.5	7.6	9.2
11	93	88	38	29	13	273	244	50	25	6.0	14	8.8
12	96	208	36	137	13	97	145	49	19	6.3	22	8.8
13	123	112	42	72	13	60	116	50	15	5.5	15	8.8
14	80	98	44	53	13	54	109	61	12	4.4	9.9	8.8
15	64	79	40	52	13	53	159	45	10	3.9	10	9.9
16	58	67	40	46	15	47	121	37	20	3.9	9.5	9.5
17	51	60	64	39	17	64	93	32	14	6.6	7.3	9.2
18	48	57	49	37	17	576	79	31	10	4.9	5.9	23
19	40	54	48	42	18	174	72	37	8.9	3.7	6.1	7.6
20	37	50	36	39	17	107	66	33	8.2	3.7	7.6	4.4
21	35	47	30	35	15	263	62	46	8.9	4.9	6.7	3.4
22	35	46	32	34	14	1320	56	56	7.8	3.9	6.1	3.1
23	33	46	33	32	29	389	54	36	6.9	18	5.6	2.7
24	45	49	38	29	30	239	52	28	6.3	18	4.6	2.3
25	42	46	148	23	26	194	49	24	6.0	9.2	4.1	2.0
26	33	71	117	21	23	158	48	20	5.2	5.5	3.7	3.1
27	30	110	73	20	21	127	46	17	4.6	4.1	3.2	3.4
28	31	72	61	20	17	111	54	15	4.4	3.9	3.4	2.9
29	36	69	54	19	15	103	139	13	5.7	162	3.2	2.7
30	31	60	47	18	---	143	93	12	56	138	3.2	2.5
31	35	---	41	15	---	119	---	12	---	42	3.7	---
TOTAL	1760	2290	1562	1113	470	4909	3344	1309	491.9	615.6	359.4	182.9
MEAN	56.8	76.3	50.4	35.9	16.2	158	111	42.2	16.4	19.9	11.6	6.10
MAX	123	208	148	137	30	1320	585	109	56	162	41	23
MIN	30	27	30	15	13	12	46	12	4.4	3.7	3.2	2.0
CFSM	1.99	2.67	1.76	1.26	.57	5.52	3.88	1.48	.57	.70	.41	\$.12
IN.	2.29	2.98	2.03	1.45	.61	6.38	4.35	1.70	.64	.80	.47	\$.13

CAL YR 1979 TOTAL 27260.1 MEAN 74.7 MAX 1620 MIN 1.8 CFSM 2.61 IN 35.46
WTR YR 1980 TOTAL 18406.8 MEAN 50.3 MAX 1320 MIN 2.0 CFSM 1.75 IN 23.83

‡ Adjusted for release of water from pond upstream Sept. 6-17.

THAMES RIVER BASIN

67

01122000 NATCHAUG RIVER AT WILLIMANTIC, CT

LOCATION.--Lat 41°43'11", long 72°11'46", Windham County, Hydrologic Unit 01100002, on left bank at upstream side of bridge on U.S. Highway 6, 1 mi (2 km) northeast of Willimantic, 1.6 mi (2.6 km) upstream from mouth, and 3.7 mi (6.0 km) downstream from Mansfield Hollow Dam.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WSP 1301: 1934-35(M), 1937(M).

GAGE.--Water-stage recorder. Datum of gage is 150.31 ft (45.814 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Oct. 6, 1930, to June 6, 1974, water-stage recorder on right bank 500 ft (150 m) upstream at same datum. June 6, 1974 to Aug. 26, 1975, staff gage at present site and datum.

REMARKS.--Records good. City of Willimantic diverts an average of about 1.8 mgd (0.079 m³/s) for municipal supply from reservoir 2 mi (3 km) upstream. Operation of water wheels at this location causes diurnal fluctuation at low flow. Flow regulated since March 1952 by Mansfield Hollow Lake (see p.121). Chemical analyses available for water years 1954 (WSP 1350), 1958 (WSP 1571), and 1964 (WSP 1954).

AVERAGE DISCHARGE (adjusted for storage)--50 years, 301 ft³/s (8.524 m³/s), 23.90 in/yr (607 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) Sept. 21, 1938, gage height, 16.39 ft (4.996 m), from floodmarks, by computation of peak flow overdam 2 mi (3 km) upstream; minimum, about 0.3 ft³/s (0.08 m³/s) Aug. 6, 1937; minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 11, 12, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) Mar. 25, gage height, 7.56 ft (2.304 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 8, 9, 15, gage height, 1.00 ft (0.305 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	228	338	214	104	111	872	564	108	164	371	29
2	228	222	276	214	104	110	798	424	103	182	216	27
3	303	317	208	212	104	108	728	361	113	166	226	25
4	305	363	203	210	100	108	705	324	130	144	220	24
5	260	361	210	199	98	106	773	287	135	128	182	24
6	540	366	210	205	97	105	761	263	104	142	146	24
7	425	373	224	203	91	105	701	246	94	117	149	23
8	326	378	222	201	61	115	596	341	84	96	142	24
9	261	299	224	197	61	123	477	522	90	82	91	21
10	223	480	224	194	61	122	689	435	90	73	58	23
11	292	397	274	199	64	336	1590	353	76	68	63	23
12	480	266	294	244	62	641	1750	322	60	59	64	22
13	516	389	272	246	62	570	1570	305	155	54	59	23
14	495	830	220	294	64	386	1160	319	219	50	60	24
15	405	922	218	384	65	371	912	310	308	46	60	24
16	336	865	216	413	66	361	1040	272	246	47	59	25
17	299	576	220	391	66	356	654	237	175	48	59	26
18	268	285	220	376	66	697	373	216	137	47	59	45
19	248	279	218	363	68	1350	440	210	109	45	63	41
20	228	274	214	292	77	1380	424	216	94	47	59	42
21	218	296	212	190	111	1150	399	222	82	47	58	40
22	212	346	212	188	113	394	366	283	74	47	58	38
23	201	290	212	190	117	962	348	276	63	54	58	35
24	210	361	214	188	118	2160	319	231	63	49	58	31
25	218	329	253	184	117	2350	312	194	55	50	56	29
26	214	228	463	180	117	2420	301	167	68	38	54	30
27	197	241	545	178	117	2370	294	146	57	39	43	28
28	186	292	363	135	115	1890	287	128	51	38	37	26
29	184	381	421	107	113	966	457	117	59	131	33	25
30	224	413	399	106	---	940	628	108	93	429	30	25
31	248	---	296	106	---	912	---	103	---	429	30	---
TOTAL	8912	11647	8295	7003	2579	24075	20724	8502	3295	3156	2921	846
MEAN	287	388	268	226	88.9	777	691	274	110	102	94.2	28.2
MAX	540	922	545	413	118	2420	1750	564	308	429	371	45
MIN	162	222	203	106	61	105	287	103	51	38	30	21
(+)	-6.0	+8.6	-16.7	-13.5	+6.0	+66.4	-29.9	-17.4	-4.6	+25.3	-26.1	0
MEAN†	281	397	251	212	94.9	843	661	257	105	127	68.1	28.2
CFSM‡	1.64	2.32	1.47	1.24	0.55	4.93	3.87	1.50	0.61	0.74	0.40	0.16
IN‡	1.89	2.59	1.70	1.43	0.59	5.68	4.32	1.73	0.68	0.85	0.46	0.18

CAL YR 1979 TOTAL 150614 MEAN 413 MAX 2860 MIN 28 MEAN‡ 414 CFSM‡ 2.42 IN‡ 32.86
WTR YR 1980 TOTAL 101955 MEAN 279 MAX 2420 MIN 21 MEAN‡ 278 CFSM‡ 1.63 IN‡ 22.10

† Change in contents, equivalent in cubic feet per second, in Mansfield Hollow Lake; furnished by Corps of Engineers.
‡ Adjusted for change in contents.

THAMES RIVER BASIN

01122001 NATCHAUG RIVER, AT U.S. HIGHWAY 6, AT WILLIMANTIC, CT

LOCATION.--Lat 41°43'10", long 72°11'46", Windham County, Hydrologic Unit 01100002, at bridge on U.S. Highway 6, at Willimantic, 10 ft (3 m) downstream from discharge station 01122000, 2.1 mi (3.4 km) downstream from Willimantic Reservoir, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--Water year 1974 to September 1980 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 09...	1315	251	73	7.0	17.0	14.5	50	2.0	9.8	95	4600	--
NOV 16...	1230	932	66	6.3	3.5	7.0	40	1.0	12.3	101	700	--
DEC 10...	1315	227	72	6.3	7.0	3.0	30	2.0	14.3	106	880	--
JAN 18...	1105	385	69	6.2	8.0	2.5	10	1.0	14.3	104	64	K7
FEB 13...	1145	63	96	6.6	4.0	3.0	10	1.0	14.3	106	30	K9
MAR 21...	1250	924	55	7.0	12.0	4.5	20	2.0	12.7	98	64	34
APR 14...	1210	1320	57	6.8	11.5	11.0	15	1.0	11.6	104	220	34
MAY 15...	1145	288	77	6.6	19.0	16.5	7	1.0	9.9	101	1200	K11
JUN 11...	1510	118	75	6.8	19.5	20.0	20	2.0	9.9	108	200	45
JUL 15...	1150	47	85	6.8	30.5	24.5	13	2.0	8.5	100	19000	120
AUG 15...	1050	61	95	6.6	26.5	24.0	30	2.0	7.6	85	36000	100
SEP 02...	1200	28	114	6.6	33.0	25.0	--	1.0	7.8	94	13000	280

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 09...	58	48	20	9	5.3	1.7	11	7.1	8.5	8.8	56	.08
NOV 16...	88	65	--	--	--	--	--	--	7.2	--	55	.07
DEC 10...	38	K17	--	--	--	--	--	--	7.2	--	50	.07
JAN 18...	--	K16	17	10	4.5	1.5	7	8.3	7.2	8.5	48	.07
FEB 13...	--	K12	--	--	--	--	--	--	9.6	--	68	.09
MAR 21...	--	120	--	--	--	--	--	--	5.7	--	46	.06
APR 14...	--	K14	13	3	3.4	1.2	10	8.2	6.1	6.4	50	.07
MAY 15...	--	K11	--	--	--	--	--	--	6.7	--	52	.07
JUN 11...	--	92	--	--	--	--	--	--	7.5	--	60	.08
JUL 15...	--	170	23	3	6.1	1.8	20	8.0	8.6	5.3	60	.08
AUG 15...	--	38	--	--	--	--	--	--	8.0	--	73	.10
SEP 02...	--	250	--	--	--	--	--	--	8.9	--	80	.11

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

69

01122001 NATCHAUG RIVER, AT U.S. HIGHWAY 6, AT WILLIMANTIC, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 09...	38.0	64	--	--	.13	.04	.05	.31	.35	.48	2.1
NOV 16...	138	56	.17	.01	.18	.02	.02	.33	.35	.53	2.3
DEC 10...	30.6	60	.28	.01	.29	.05	.06	.11	.16	.45	2.0
JAN 18...	49.9	50	--	--	.32	.08	.10	.19	.27	.59	2.6
FEB 13...	11.6	64	.35	.01	.36	.01	.01	.24	.25	.61	2.7
MAR 21...	115	40	.34	.00	.34	.10	.12	.27	.37	.71	3.1
APR 14...	178	46	--	--	.24	.01	.01	.17	.18	.42	1.9
MAY 15...	40.4	52	.17	.00	.17	.04	.05	.14	.18	.35	1.6
JUN 11...	19.1	115	.27	.00	.27	.06	.07	.25	.31	.58	2.6
JUL 15...	7.61	66	--	--	.16	.01	.01	.48	.49	.65	2.9
AUG 15...	12.0	65	.19	.01	.20	.07	.08	1.1	1.2	1.4	6.2
SEP 02...	6.05	175	.15	.00	.15	.04	.05	.22	.26	.41	1.8

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 09...	.020	.06	1	270	20	1	6.2	.00	.000	.000
NOV 16...	.110	.34	2	--	--	10	6.5	--	--	--
DEC 10...	.010	.03	1	--	--	0	3.1	--	--	--
JAN 18...	.010	.03	1	150	30	30	3.4	.00	.000	.000
FEB 13...	.010	.03	2	--	--	10	1.3	--	--	--
MAR 21...	.010	.03	1	--	--	10	4.6	--	--	--
APR 14...	.020	.06	0	70	20	0	2.9	--	2.81	.000
MAY 15...	.020	.06	1	--	--	0	6.3	--	--	--
JUN 11...	.020	.06	1	--	--	0	19	--	--	--
JUL 15...	.010	.03	3	380	60	9	7.2	.00	1.77	.000
AUG 15...	.050	.15	3	--	--	0	5.1	--	--	--
SEP 02...	.000	.00	2	--	--	0	6.1	--	--	--

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CT

LOCATION.--Lat 41°42'01", long 72°10'57", Windham County, Hydrologic Unit 01100002, on right bank at downstream side of Bingham Bridge on Plains Road, 500 ft (150 m) upstream from Penn. Central Co. railroad bridge, 500 ft (150 m) downstream from Potash Brook, 1.3 mi (2.1 km) downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi (2.4 km) southeast of Willimantic, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--402 mi² (1,041 km²).

PERIOD OF RECORD.--April 1904 to December 1905, October 1919 to September 1921, September 1928 to current year. Published as "at South Windham" October 1919 to September 1921, September 1928 to September 1933. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 781: 1934(M). WSP 801: 1935. WSP 1201: 1905(M), 1920-21.

GAGE.--Water-stage recorder since Dec. 5, 1933. Datum of gage is 131.40 ft (40.051 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Apr. 4, 1904, to Dec. 31, 1905, nonrecording gage at present site and about the same datum. October 1919 to Sept. 30, 1921, and Sept. 1, 1928 to Sept. 30, 1933, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply of city of Willimantic, and by Mansfield Hollow Lake (see p.121). Unpublished records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn. Chemical analyses available for water year 1957 (WSP 1520), 1968-74 (WRDC 1968-74). Daily water temperatures available for water year 1957 (WSP 1520).

AVERAGE DISCHARGE (adjusted for storage).--55 years, 711 ft³/s (20.14 m³/s), 24.03 in/yr (610 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,200 ft³/s (1,480 m³/s) Sept. 21, 1938, gage height, 27.6 ft (8.41 m), from floodmarks, from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of computation of peak flow over Scotland and Baltic Dams, 5 and 9 mi (8 and 14 km) downstream, respectively, adjusted for flow from intervening area; minimum, 15 ft³/s (0.42 m³/s) Aug. 29, 1949, gage height, 1.34 ft (0.408 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 22, Oct. 24, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,210 ft³/s (261 m³/s) Mar. 22, gage height, 11.38 ft (3.469 m); minimum, 76 ft³/s (1.74 m³/s) Sept. 11-13, gage height, 1.77 ft (0.539 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	448	966	539	250	251	1840	1290	262	468	661	102
2	699	438	763	508	240	235	1600	1030	262	382	413	98
3	744	971	566	507	235	219	1440	870	284	330	537	96
4	1070	1460	558	462	232	215	1630	774	341	284	472	90
5	843	1060	549	468	220	210	2130	690	327	258	366	90
6	1150	883	514	413	220	230	1720	643	271	341	320	90
7	891	809	695	408	210	257	1480	606	348	287	366	86
8	685	786	719	448	205	307	1280	969	397	220	352	86
9	573	648	621	417	195	463	1120	1360	330	202	262	81
10	680	905	566	396	193	415	3430	1040	316	183	197	83
11	865	1040	657	416	190	1680	4680	848	293	172	197	81
12	1060	1660	612	1010	190	1610	3460	790	262	150	220	79
13	1270	1520	614	824	190	1110	2750	764	226	134	208	79
14	1050	1550	621	740	190	869	2130	759	389	124	186	81
15	837	1540	551	787	190	848	2100	704	493	115	172	83
16	719	1390	516	796	190	708	2200	620	389	113	169	83
17	634	1080	642	728	200	732	1570	545	355	152	152	83
18	591	906	602	691	209	2900	1120	489	280	142	158	158
19	554	696	505	684	219	3520	1100	528	232	120	163	137
20	519	688	479	601	230	2440	1030	523	208	115	161	117
21	477	654	467	474	270	2270	997	545	194	113	158	108
22	506	705	479	461	283	7390	897	739	183	115	155	104
23	477	619	476	487	302	5830	837	643	166	150	150	98
24	502	737	504	449	322	4570	785	515	150	229	144	92
25	510	704	879	418	309	4050	754	436	144	175	139	90
26	472	654	1520	408	317	3830	729	374	147	131	134	90
27	436	1020	1320	376	284	3430	714	337	137	117	120	90
28	413	946	1030	341	292	2830	795	300	122	108	111	88
29	440	928	867	302	267	1820	1520	280	131	537	104	88
30	481	849	786	277	---	1970	1590	262	359	1550	102	85
31	477	---	663	267	---	1970	---	251	---	908	102	---
TOTAL	20988	28294	21307	16103	6844	59179	49428	20524	7998	8425	7151	2816
MEAN	677	943	687	519	236	1909	1648	662	267	272	231	93.9
MAX	1270	1660	1520	1010	322	7390	4680	1360	493	1550	661	158
MIN	363	438	467	267	190	210	714	251	122	108	102	79
(*)	-6.0	+8.6	-16.7	-13.5	+6.0	+66.4	-29.9	-17.4	-4.6	+25.3	-26.1	0
MEAN†	671	952	670	505	242	1975	1618	645	262	297	205	93.9
CFSM†	1.67	2.37	1.67	1.26	0.60	4.91	4.02	1.60	0.65	0.74	0.51	0.23
IN†	1.92	2.64	1.92	1.45	0.65	5.66	4.48	1.84	0.72	0.85	0.59	0.26

CAL YR 1979 TOTAL 355435 MEAN 974 MAX 8650 MIN 86 MEAN† 975 CFSM† 2.43 IN† 32.90
WTR YR 1980 TOTAL 249057 MEAN 680 MAX 7390 MIN 79 MEAN† 679 CFSM† 1.69 IN† 22.98

† Change in contents, equivalent in cubic feet per second, in Mansfield Hollow Lake; furnished by Corps of Engineers.
‡ Adjusted for change in contents.

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT

(National stream-quality accounting network station)

LOCATION.--Lat 41°40'56", long 72°09'59", Windham County, Hydrologic Unit 01100002, at bridge on State Highway 203, at South Windham, 0.8 mi (1.3 km) downstream from Jordan Brook, and 1.8 mi (2.9 km) upstream from Cold Brook.

DRAINAGE AREA.--408 mi² (1,057 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August to September 1980.

WATER TEMPERATURE: August to September 1980.

INSTRUMENTATION.--Water-quality monitor.

EXTREMES FOR PERIOD.--

SPECIFIC CONDUCTANCE: Maximum, 284 micromhos September 16; minimum, 77 micromhos August 8.

WATER TEMPERATURE: Maximum, 28.5°C August 9; minimum, 12.5°C September 28.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01122500, 1.6 mi (4.1 km) upstream, and adjusting its discharge by multiplying by a factor of 1.01, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
09...	1430	568	85	7.3	17.0	13.0	50	2.0	9.9	93	3200	--
NOV												
16...	1105	1460	78	6.3	3.5	7.0	40	2.0	12.2	100	100000	--
DEC												
10...	1200	568	86	6.3	5.5	2.0	20	2.0	13.9	100	65000	--
JAN												
18...	1230	712	88	6.5	7.0	2.0	10	1.0	14.2	102	10000	820
FEB												
13...	1300	192	132	6.7	2.5	3.0	5	1.0	16.2	120	1500	120
MAR												
21...	1345	1850	64	6.9	14.0	5.0	20	2.0	12.8	100	2500	1400
APR												
14...	1300	2240	61	6.9	9.0	10.5	10	1.0	11.5	103	2800	520
MAY												
15...	1015	763	93	6.9	19.5	16.0	10	1.0	10.5	106	2100	84
JUN												
11...	1215	335	104	6.9	16.0	16.0	15	2.0	9.9	100	850	180
JUL												
15...	1030	121	110	7.0	28.0	22.5	19	2.0	7.8	90	90000	400
AUG												
15...	1235	174	132	7.1	26.0	23.5	22	2.0	8.9	105	80000	500
SEP												
02...	1300	101	128	7.6	31.5	26.0	4	1.0	9.2	112	17000	400

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)
OCT												
09...	760	340	21	4	5.7	1.6	8.4	53	.8	10	1.7	17
NOV												
16...	5300	1000	17	17	4.5	1.4	6.3	52	.7	7.6	1.3	0
DEC												
10...	3400	480	19	0	5.1	1.4	7.2	44	.7	8.4	1.2	20
JAN												
18...	--	3300	18	0	4.8	1.5	7.0	44	.7	8.1	1.1	10
FEB												
13...	--	100	25	6	6.9	2.0	14	53	1.2	16	1.5	19
MAR												
21...	--	600	14	7	3.6	1.2	4.8	40	.6	6.0	1.2	7
APR												
14...	--	540	14	6	3.9	1.1	4.6	39	.5	--	1.1	8
MAY												
15...	--	K12	18	2	4.9	1.4	6.8	43	.7	--	1.0	16
JUN												
11...	--	21	22	11	6.2	1.6	10	48	.9	--	1.5	11
JUL												
15...	--	820	25	6	7.2	1.8	9.5	43	.8	--	1.7	19
AUG												
15...	--	25	25	5	6.9	1.8	11	47	1.0	--	1.7	20
SEP												
02...	--	62	27	10	7.6	2.0	9.5	41	.8	--	2.0	17

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 09...	9.9	10	.1	9.3	68	59	.09	104	73	.28	.30	.13
NOV 16...	9.6	8.7	.1	9.0	68	42	.09	268	60	.33	.35	.08
DEC 10...	11	8.9	.1	9.0	54	58	.07	82.8	68	.30	.37	.05
JAN 18...	13	8.9	.1	8.7	56	68	.08	108	58	.70	.43	.20
FEB 13...	20	12	.1	9.4	73	83	.10	37.8	76	.66	1.2	.21
MAR 21...	8.2	6.4	.0	6.2	48	38	.07	240	44	.38	.44	.13
APR 14...	8.4	6.3	.0	6.4	46	38	.06	278	52	.28	.26	.00
MAY 15...	10	7.9	.0	6.4	53	50	.07	109	63	.24	.46	.05
JUN 11...	14	9.5	.1	8.6	84	61	.11	76.0	82	.59	.55	.11
JUL 15...	13	12	.1	6.4	78	66	.11	25.5	65	.52	.47	.09
AUG 15...	16	10	.1	8.0	74	69	.10	34.8	73	.36	.38	.03
SEP 02...	12	11	.1	6.5	71	65	.10	19.4	80	.42	.81	.02

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 09...	.08	.16	.10	.32	.42	.45	.00	.50	.73	.80	3.2	.080
NOV 16...	.01	.10	.01	.42	.71	.50	.00	.72	.83	1.1	3.7	.050
DEC 10...	.06	.06	.08	.30	.17	.35	.12	.23	.65	.60	2.9	.040
JAN 18...	.05	.24	.06	.40	.36	.60	.19	.41	1.3	.84	5.8	.050
FEB 13...	.17	.25	.22	.99	.49	1.2	.54	.66	1.9	1.9	8.2	.120
MAR 21...	.08	.16	.10	.15	.16	.28	.04	.24	.66	.68	2.9	.030
APR 14...	.06	.00	.08	.06	.14	.06	.00	.20	.34	.46	1.5	.030
MAY 15...	.07	.06	.09	.22	.06	.27	.14	.13	.51	.59	2.3	.050
JUN 11...	.15	.13	.19	.33	.36	.44	.00	.51	1.0	1.1	4.6	.090
JUL 15...	.08	.11	.10	.40	.31	.49	.10	.39	1.0	.86	4.5	.110
AUG 15...	.02	.04	.03	.14	.17	.17	.00	.19	.53	.57	2.3	.070
SEP 02...	.00	.02	.00	.26	.15	.28	.13	.15	.70	.96	3.1	.080

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 09...	.25	.070	1	1	0	0	0	0	0	0	3	20
NOV 16...	.15	.040	--	--	--	--	--	--	--	--	--	--
DEC 10...	.12	.040	--	--	--	--	--	--	--	--	--	--
JAN 18...	.15	.050	0	0	0	<50	<30	20	2	1	1	20
FEB 13...	.37	.110	--	--	--	--	--	--	--	--	--	--
MAR 21...	.09	.010	--	--	--	--	--	--	--	--	--	--
APR 14...	.09	.010	0	0	0	<50	--	20	0	0	0	20
MAY 15...	.15	.050	--	--	--	--	--	--	--	--	--	--
JUN 11...	.28	.070	--	--	--	--	--	--	--	--	--	--
JUL 15...	.34	.120	1	1	0	<50	--	20	1	0	1	<10
AUG 15...	.21	.070	--	--	--	--	--	--	--	--	--	--
SEP 02...	.25	.080	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CORALT, TOTAL RECOV- ERABLE (UG/L AS CO)	CORALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 09...	10	10	0	0	0	7	1	6	590	250	340	5
NOV 16...	--	--	--	--	--	--	--	3	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	7	--	--	--	--
JAN 18...	10	10	2	0	2	5	0	5	420	280	140	2
FEB 13...	--	--	--	--	--	--	--	9	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	4	--	--	--	--
APR 14...	10	10	0	0	0	4	0	4	250	150	100	4
MAY 15...	--	--	--	--	--	--	--	3	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	5	--	--	--	--
JUL 15...	--	10	0	0	0	6	0	6	530	200	330	2
AUG 15...	--	--	--	--	--	--	--	6	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	4	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT 09...	1	4	30	10	20	1	0	1	.2	.0	.2	0
NOV 16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 18...	1	1	30	10	20	2	0	2	<.1	<.0	<.1	2
FEB 13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	3	1	30	10	20	1	0	1	.1	.0	.1	0
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	0	2	40	20	20	45	44	1	<.1	--	<.1	0
AUG 15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 09...	0	0	0	0	0	20	10	10	7.2	6.8	.4	.00
NOV 16...	--	--	--	--	--	--	--	10	4.7	--	--	--
DEC 10...	--	--	0	--	--	--	--	30	3.0	--	--	--
JAN 18...	1	1	0	0	0	10	0	40	2.9	2.6	.3	.00
FEB 13...	--	--	--	--	--	--	--	20	1.9	--	--	--
MAR 21...	--	--	0	--	--	--	--	7	4.0	--	--	--
APR 14...	0	0	0	0	0	10	0	--	4.2	3.4	.8	.10
MAY 15...	--	--	--	--	--	--	--	4	3.0	--	--	--
JUN 11...	--	--	0	--	--	--	--	30	3.6	--	--	--
JUL 15...	0	0	0	0	0	10	0	10	4.9	4.5	.4	.10
AUG 15...	--	--	--	--	--	--	--	10	8.2	--	--	--
SEP 02...	--	--	0	--	--	--	--	0	4.3	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 09...	--	.000	.000
NOV 16...	2200	--	--
JAN 18...	--	.000	.000
MAR 21...	170	--	--
APR 14...	--	1.99	.000
MAY 15...	1300	--	--
JUN 11...	1700	--	--
JUL 15...	2200	3.71	.000
AUG 15...	1200	--	--
SEP 02...	1300	--	--

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PEN- DED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PEN- DED (T/DAY)	SED. SUSP. SIEVE DIAM., % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PEN- DED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PEN- DED (T/DAY)	SED. SUSP. SIEVE DIAM., % FINER THAN .062 MM
OCT 09...	1430	568	4	6.1	100	APR 14...	1300	2240	8	48	100
NOV 16...	1105	1460	12	47	36	MAY 15...	1015	763	4	8.2	100
DEC 10...	1200	568	9	14	15	JUN 11...	1215	335	10	9.0	68
JAN 18...	1230	712	7	13	55	JUL 15...	1030	121	4	1.3	100
FEB 13...	1300	192	13	6.7	49	AUG 15...	1235	174	2	.94	75
MAR 21...	1345	1850	8	40	78	SEP 02...	1300	101	8	2.2	71

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	NOV 16,79 1105		MAR 21,80 1345		MAY 15,80 1015		JUN 11,80 1215	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	860#	39	--	-	280#	22	300#	18
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	110	5	--	-	--	-	210	12
...OSCILLATORIACEAE								
....LYNGBYA	72	3	--	-	--	-	--	-
....OSCILLATORIA	470#	21	51#	31	--	-	55	3
...RIVULARIACEAE								
....RAPHIDIOPSIS	86	4	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	14	1	14	1
....TRACHELOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	JUL 15,80 1030	AUG 15,80 1235	SEP 2,80 1300
TOTAL CELLS/ML	2200	1200	1300
DIVERSITY: DIVISION	1.1	1.4	1.5
..CLASS	1.1	1.4	1.5
...ORDER	1.4	1.7	1.8
....FAMILY	2.5	2.1	2.8
.....GENUS	3.6	2.6	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....COELASTRACEAE						
.....COELASTRUM	--	-	--	-	120	9
...HYDRODICTYACEAE						
....PEDIASTRUM	140	7	--	-	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	140	7	52	4	78	6
...DICTYOSPHAERIUM	400#	18	13	1	--	-
....KIRCHNERIELLA	160	7	39	3	--	-
...OOCYSTIS	--	-	13	1	--	-
....SELENASTRUM	--	-	39	3	190	15
...TETRAEDRON	29	1	--	-	--	-
....WESTELLA	170	8	--	-	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	120	5	150	13	100	8
...SCENEDESMUS	400#	18	120	10	160	12
....TETRASTRUM	--	-	--	-	--	-
..TETRASPORALES						
...COCCOMYXACEAE						
....ELAKATOTHRIX	--	-	--	-	--	-
..VOLVOCELES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	86	4	26	2	52	4
..ZYGNEMATALES						
...DESMIDIACEAE						
....CLOSTERIUM	--	-	--	-	--	-
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCAEAE						
...CYCLOTELLA	--	-	52	4	26	2
....MELOSIRA	14	1	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	29	1	--	-	13	1
...CYMBELLACEAE						
....CYMBELLA	14	1	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	86	4	--	-	--	-
...SYNEDRA	--	-	13	1	13	1
...GOMPHONEMATAEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	72	3	77	7	120	9
...NITZSCHIAEAE						
....NITZSCHIA	--	-	13	1	90	7
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CHRYSTOPHYCEAE						
...CHRYSONOMADALES						
....CHROMULINACEAE						
...CHRYSOCOCCLUS	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON								
DATE TIME	NOV 16,79 1105		MAR 21,80 1345		MAY 15,80 1015		JUN 11,80 1215	
TOTAL CELLS/ML	2200		170		1300		1700	
DIVERSITY: DIVISION	1.0		1.2		2.0		1.7	
..CLASS	1.0		1.2		2.1		1.8	
..ORDER	1.9		1.2		2.5		2.7	
...FAMILY	2.5		1.8		3.5		3.6	
....GENUS	2.7		1.8		3.8		3.9	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....COELASTRACEAE								
.....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	57	3	--	-	--	-	--	-
...MICRACTINIIACEAE								
....GOLENKINIA	--	-	--	-	--	-	14	1
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	28	2	55	3
...DICTYOSPHAERIUM	--	-	--	-	--	-	69	4
....KIRCHNERIELLA	--	-	--	-	14	1	--	-
...OOCYSTIS	43	2	--	-	28	2	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
...TETRAEDRON	--	-	--	-	--	-	14	1
....WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	55	4	55	3
...SCENEDESMUS	110	5	--	-	110	9	110	7
....TETRASTRUM	290	13	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	14	1	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	14	1	--	-	14	1	170	10
..ZYGNEATALES								
...DESMIDIACEAE								
....CLOSTERIUM	14	1	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....CYCLOTELLA	29	1	--	-	41	3	140	8
....MELOSIRA	--	-	--	-	96	8	41	2
..PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	43	2	39#	23	83	6	69	4
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	14	1	28	2
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
...SYNEDRA	14	1	--	-	--	-	28	2
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	28	2	14	1
...NAVICULACEAE								
....NAVICULA	--	-	--	-	120	10	110	7
...NITZSCHIIACEAE								
....NITZSCHIA	--	-	64#	38	69	5	120	7
...SURIPELLACEAE								
....SURIPELLA	--	-	--	-	28	2	41	2
..CHRYSTOPHYCEAE								
...CHRYSONOMADALES								
....CHROMULINACEAE								
.....CHRYSOCOCCLUS	--	-	--	-	28	2	28	2
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
.....CHROOMONAS	--	-	--	-	150	12	14	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	13	8	69	5	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	JUL 15,80 1030		AUG 15,80 1235		SEP 2,80 1300	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	58	3	--	-	--	-
....ANACYSTIS	230	10	580#	49	350#	27
...HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	--	-
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	43	2	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1							---	---	---	153	129	139
2							---	---	---	156	128	138
3							---	---	---	203	159	180
4							---	---	---	203	159	181
5							---	---	---	188	158	175
6							---	---	---	228	168	193
7							---	---	---	217	155	181
8							91	77	86	197	138	161
9							101	79	91	249	172	204
10							102	88	96	262	191	222
11							111	90	101	281	191	225
12							113	97	106	255	167	207
13							116	98	107	204	144	174
14							129	106	117	242	158	190
15							139	115	127	279	156	230
16							131	109	122	284	187	247
17							125	106	117	276	188	232
18							130	110	120	274	152	189
19							125	107	115	210	144	170
20							118	108	114	200	144	170
21							118	108	113	186	136	153
22							114	104	110	199	125	151
23							117	105	111	235	161	202
24							124	108	117	210	142	172
25							140	109	123	200	140	170
26							171	131	150	225	172	194
27							168	134	147	216	163	194
28							195	141	160	206	149	173
29							189	150	172	162	131	148
30							195	155	177	180	146	164
31							190	142	163	---	---	---
MONTH							195	77	123	284	125	184
YEAR	284	77	157									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1							---	---	---	27.0	22.5	24.5
2							---	---	---	28.0	23.5	25.5
3							---	---	---	27.0	23.5	25.0
4							---	---	---	25.5	21.5	23.5
5							---	---	---	23.5	22.5	23.0
6							---	---	---	25.5	21.5	23.5
7							---	---	---	24.0	20.5	22.5
8							27.5	25.0	26.0	23.0	19.5	21.0
9							28.5	25.0	26.5	22.0	17.5	20.0
10							27.0	23.5	25.0	22.5	19.5	20.5
11							24.5	23.5	24.0	21.5	17.0	19.5
12							26.0	23.0	24.0	21.5	18.0	20.0
13							26.0	22.5	24.0	21.0	19.0	20.0
14							24.0	22.5	23.0	21.5	19.0	20.5
15							25.0	22.5	23.5	20.5	18.5	19.5
16							23.5	21.0	22.0	19.5	17.0	18.5
17							24.0	19.5	21.5	20.0	16.5	18.5
18							23.5	20.0	21.5	21.5	18.5	20.0
19							22.5	21.0	21.5	20.5	17.0	18.5
20							21.5	20.5	21.0	20.0	17.0	18.5
21							20.5	19.5	20.0	22.5	18.5	20.5
22							21.5	19.5	20.0	24.0	20.5	22.0
23							24.0	19.0	21.0	23.5	20.5	22.5
24							25.0	20.5	22.5	20.5	18.0	19.0
25							25.5	22.0	23.5	18.0	16.0	17.0
26							27.0	22.0	24.5	19.0	16.5	17.5
27							27.0	23.0	25.0	16.5	14.0	15.0
28							25.5	23.5	24.5	16.5	12.5	14.5
29							23.0	21.5	22.5	16.5	13.5	15.0
30							22.5	20.5	21.5	17.0	13.0	15.0
31							25.0	21.5	23.0	---	---	---
MONTH							28.5	19.0	23.0	28.0	12.5	20.0

THAMES RIVER BASIN

81

01123000 LITTLE RIVER NEAR HANOVER, CT

LOCATION.--Lat 41°40'18", long 72°03'10", Windham County, Hydrologic Unit 01100002, on left bank 800 ft (240 m) upstream from bridge on Hannance Road, 0.7 mi (1.1 km) downstream from Peck Brook, 2.3 mi (3.7 km) northeast of Hanover, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--30.4 mi² (78.7 km²).

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WSP 1721: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 221.19 ft (67.419 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--29 years, 57.0 ft³/s (1.614 m³/s), 25.46 in/yr (647 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) Jan. 26, 1978, gage height, 7.72 ft (2.353 m), from rating curve extended above 820 ft³/s (23.2 m³/s); minimum, 3.2 ft³/s (0.091 m³/s) Aug. 16, 1959, gage height, 1.00 ft (0.305 m), caused by a minor and temporary regulation from an unknown source upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 22	1130	*1,040	29.5	*5.61	1.710
Apr. 10	1600	736	20.8	4.84	1.475

Minimum discharge, 4.5 ft³/s (0.13 m³/s) Sept. 12; minimum gage height, 1.47 ft (0.448 m) Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	45	37	22	18	91	89	22	34	27	6.6
2	24	19	38	34	20	17	77	76	23	23	19	6.6
3	29	199	38	33	19	17	69	66	27	20	46	5.8
4	65	213	36	36	17	16	120	58	31	17	34	5.5
5	39	92	36	29	16	16	162	53	24	15	21	5.3
6	44	66	43	26	16	16	104	50	23	45	16	5.5
7	33	55	63	25	16	17	84	47	53	26	13	5.3
8	25	49	53	29	16	25	91	94	59	18	12	4.8
9	22	44	44	26	16	44	87	99	44	16	11	4.6
10	37	55	40	22	16	34	538	71	45	14	11	4.8
11	52	71	40	28	16	73	306	60	46	12	10	4.6
12	48	158	39	96	16	53	162	62	76	13	12	4.6
13	55	113	46	77	16	36	123	60	58	13	12	5.0
14	42	98	56	56	16	48	104	56	43	11	11	4.8
15	33	79	44	51	16	54	136	49	34	9.8	9.8	4.8
16	28	66	41	48	20	44	117	44	27	9.4	12	5.0
17	25	56	49	41	25	49	94	41	21	10	10	4.8
18	23	52	48	39	30	281	81	39	19	9.4	9.1	8.5
19	22	47	37	40	33	150	75	43	18	8.8	9.1	8.1
20	21	44	33	39	20	95	69	41	16	8.5	10	6.3
21	21	43	31	38	18	162	69	52	16	8.8	9.4	7.2
22	21	40	32	33	20	842	61	61	16	10	9.1	6.6
23	36	39	33	36	23	345	59	44	14	11	8.5	5.5
24	39	38	38	35	22	220	58	36	14	15	8.8	5.0
25	37	36	70	30	21	174	59	35	13	11	7.5	5.0
26	28	44	85	27	20	152	58	30	12	9.1	7.2	5.3
27	22	76	63	25	19	118	57	27	13	8.5	6.9	5.5
28	22	54	53	24	19	98	75	25	12	7.8	6.3	5.5
29	27	46	46	29	18	85	163	24	13	44	6.3	5.3
30	23	48	43	25	---	101	120	23	26	138	6.6	5.3
31	21	---	39	23	---	94	---	23	---	47	6.6	---
TOTAL	982	2059	1402	1137	562	3494	3469	1578	858	643.1	398.2	167.5
MEAN	31.7	68.6	45.2	36.7	19.4	113	116	50.9	28.6	20.7	12.8	5.58
MAX	65	213	85	96	33	842	538	99	76	138	46	8.5
MIN	18	19	31	22	16	16	57	23	12	7.8	6.3	4.6
CFSM	1.04	2.26	1.49	1.21	.64	3.72	3.82	1.67	.94	.68	.42	.18
IN.	1.20	2.52	1.72	1.39	.69	4.28	4.24	1.93	1.05	.79	.49	.20

CAL YR 1979	TOTAL	28431.4	MEAN	77.9	MAX	1500	MIN	8.2	CFSM	2.56	IN	34.79
WTR YR 1980	TOTAL	16749.8	MEAN	45.8	MAX	842	MIN	4.6	CFSM	1.51	IN	20.50

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA

LOCATION.--Lat 42°01'40", long 71°57'22", Worcester County, Hydrologic Unit 01100001, on right bank, 50 ft (15 m) upstream from bridge on State Highway 131, 0.2 mi (0.3 km) upstream from Massachusetts-Connecticut State line, 0.4 mi (0.6 km) upstream from gaging station at Quinebaug, CT, and 2.0 mi (3.2 km) southwest of Dudley, MA.

DRAINAGE AREA.--156 mi² (404 km²), at gage at Quinebaug, CT.

PERIOD OF RECORD.--October 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Water years 1969 to current year.

pH: October 1968 to current year.

WATER TEMPERATURES: October 1968 to current year.

DISSOLVED OXYGEN: October 1968 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1968.

REMARKS.--Prior to October 1971, published as "at Quinebaug, Conn." No winter records in water years 1973-80. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded 393 micromhos Sept. 24, 1970; minimum recorded, 52 micromhos Mar. 7, 1979.

pH: Maximum recorded, 9.0 units July 13, 16, 1971; minimum recorded, 4.4 units Oct. 26, 1978.

WATER TEMPERATURES: Maximum recorded, 34.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum recorded, 19.6 mg/L Feb. 12, 1972; minimum recorded, 0.4 mg/L Aug. 28, 1970, Aug. 3, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 161 micromhos Sept. 25, 30; minimum recorded, 60 micromhos Mar. 20.

pH: Maximum recorded, 8.7 units July 16, 22; minimum recorded, 5.4 units Apr. 12, 28.

WATER TEMPERATURES: Maximum recorded, 31.0°C July 21, 22; minimum recorded, 1.0°C Mar. 22, 23.

DISSOLVED OXYGEN: Maximum recorded, 13.7 mg/L Dec. 3; minimum recorded, 4.9 mg/L July 21.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	109	107	108	108	106	107	90	85	87			
2	108	91	102	110	107	108	87	84	85			
3	111	94	108	109	109	109	89	85	87			
4	104	99	102	---	---	---	92	89	90			
5	103	98	101	---	---	---	92	90	91			
6	99	91	94	---	---	---	---	---	---			
7	95	92	93	96	94	95	---	---	---			
8	93	91	92	97	94	95	---	---	---			
9	95	92	93	98	96	97	---	---	---			
10	95	93	94	99	88	94	---	---	---			
11	96	93	95	91	84	89	---	---	---			
12	95	91	94	85	81	83	---	---	---			
13	91	89	90	86	84	85	---	---	---			
14	89	86	88	85	83	84	---	---	---			
15	88	85	86	84	82	83	---	---	---			
16	89	86	87	82	80	81	---	---	---			
17	89	86	87	82	79	81	---	---	---			
18	88	86	87	81	79	80	---	---	---			
19	89	86	87	84	80	82	---	---	---			
20	91	86	88	86	83	84	---	---	---			
21	88	85	86	88	85	86	---	---	---			
22	89	85	86	89	85	87	---	---	---			
23	92	83	90	87	85	86	---	---	---			
24	101	93	96	88	85	87	---	---	---			
25	106	101	104	89	86	88	---	---	---			
26	107	105	106	90	87	88	---	---	---			
27	109	102	105	91	86	89	---	---	---			
28	103	100	102	91	88	89	---	---	---			
29	107	100	102	89	87	88	---	---	---			
30	109	106	107	89	87	88	---	---	---			
31	108	106	107	---	---	---	---	---	---			
MONTH	111	83	96	110	79	89	92	84	88			

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	72	68	71	96	68	82
2				---	---	---	72	68	70	88	68	78
3				---	---	---	74	64	72	---	---	---
4				---	---	---	75	70	73	---	---	---
5				---	---	---	77	75	76	---	---	---
6				---	---	---	76	73	75	---	---	---
7				---	---	---	76	73	75	---	---	---
8				---	---	---	78	75	76	---	---	---
9				---	---	---	79	76	77	---	---	---
10				---	---	---	77	64	71	---	---	---
11				---	---	---	72	68	71	---	---	---
12				---	---	---	68	62	65	---	---	---
13				---	---	---	65	62	63	---	---	---
14				---	---	---	68	63	65	---	---	---
15				---	---	---	71	66	68	---	---	---
16				---	---	---	71	69	70	84	82	83
17				---	---	---	72	68	70	86	83	85
18				---	---	---	72	68	70	86	83	85
19				---	---	---	73	70	71	88	84	86
20				64	60	62	73	70	72	90	86	88
21				67	61	63	75	71	73	92	88	90
22				69	61	64	76	69	72	90	88	89
23				72	62	64	88	76	82	93	89	91
24				74	63	67	96	76	86	92	90	91
25				64	61	62	88	77	83	94	92	93
26				64	62	63	80	64	77	95	92	93
27				66	61	63	88	77	82	96	92	94
28				68	63	66	88	82	85	98	95	97
29				82	67	70	84	80	82	103	98	100
30				72	68	70	88	73	81	107	103	105
31				71	68	70	---	---	---	110	105	108
MONTH				82	60	65	96	62	74	110	68	91
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	113	109	111	104	100	102	108	103	106	135	126	131
2	113	104	110	105	102	103	105	99	102	133	126	130
3	106	89	96	104	100	102	101	93	97	135	126	130
4	102	97	99	104	100	102	100	97	99	136	128	132
5	103	100	102	103	100	102	103	96	100	137	128	132
6	106	101	103	103	93	97	103	98	101	137	129	134
7	104	95	99	103	95	99	106	102	104	136	129	133
8	95	92	94	106	102	104	110	104	107	135	129	132
9	100	93	95	109	105	107	112	106	109	136	128	131
10	100	96	98	111	107	109	116	107	111	140	133	136
11	101	97	99	120	109	114	114	108	111	141	133	137
12	102	98	100	123	118	120	111	107	109	141	135	138
13	103	100	102	125	119	121	114	109	111	146	136	140
14	106	101	103	125	119	121	115	111	113	148	141	145
15	105	102	103	125	118	122	117	112	114	148	143	145
16	103	90	96	126	120	123	116	112	114	151	141	145
17	102	93	98	124	115	121	117	111	114	154	144	149
18	105	101	102	126	116	120	118	111	114	157	143	152
19	107	103	104	129	121	125	120	114	116	153	143	148
20	108	104	106	132	123	127	119	113	116	148	140	144
21	109	105	107	133	126	129	123	114	118	156	144	150
22	110	106	108	136	127	131	126	117	121	156	147	151
23	110	106	108	135	124	130	128	120	124	154	149	152
24	113	108	110	128	116	124	128	121	124	156	150	154
25	116	110	113	122	113	117	128	120	124	161	152	157
26	120	112	117	124	116	119	130	122	127	159	152	156
27	122	112	117	125	117	121	132	124	127	160	153	157
28	125	116	120	128	119	123	132	126	129	159	152	156
29	125	116	121	127	98	120	133	126	130	159	153	156
30	118	89	102	106	87	101	134	127	130	161	151	157
31	---	---	---	109	105	106	135	128	132	---	---	---
MONTH	125	89	105	136	87	115	135	93	115	161	126	144
YEAR	161	60	102									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

PH (UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.8	6.6	6.7	6.8	6.6	6.7	6.7	6.6	6.6			
2	6.7	6.6	6.6	6.8	6.6	6.7	6.7	6.6	6.7			
3	6.7	6.6	6.6	6.6	6.6	6.6	6.7	6.6	6.6			
4	6.7	6.6	6.6	---	---	---	6.7	6.6	6.6			
5	6.6	6.6	6.6	---	---	---	6.6	6.6	6.6			
6	6.6	6.6	6.6	---	---	---	---	---	---			
7	6.7	6.6	6.6	6.7	6.6	6.6	---	---	---			
8	6.7	6.6	6.7	6.7	6.6	6.6	---	---	---			
9	6.6	6.6	6.6	6.7	6.5	6.6	---	---	---			
10	6.6	6.6	6.6	6.7	6.6	6.6	---	---	---			
11	6.7	6.6	6.6	6.7	6.6	6.6	---	---	---			
12	6.6	6.6	6.6	6.6	6.5	6.6	---	---	---			
13	6.6	6.5	6.6	6.6	6.5	6.6	---	---	---			
14	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
15	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
16	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
17	6.6	6.6	6.6	6.6	6.5	6.6	---	---	---			
18	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
19	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
20	6.7	6.6	6.6	6.6	6.5	6.5	---	---	---			
21	6.7	6.5	6.6	6.5	6.5	6.5	---	---	---			
22	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---			
23	6.7	6.5	6.6	6.7	6.6	6.6	---	---	---			
24	6.7	6.5	6.6	6.8	6.6	6.6	---	---	---			
25	6.7	6.5	6.6	6.8	6.6	6.7	---	---	---			
26	6.8	6.6	6.7	6.7	6.6	6.6	---	---	---			
27	6.8	6.6	6.7	6.7	6.6	6.6	---	---	---			
28	6.7	6.6	6.7	6.7	6.6	6.6	---	---	---			
29	6.8	6.6	6.7	6.7	6.6	6.6	---	---	---			
30	6.8	6.6	6.7	6.7	6.6	6.6	---	---	---			
31	6.8	6.6	6.7	---	---	---	---	---	---			
MONTH	6.8	6.5	6.6	6.8	6.5	6.6	6.7	6.6	6.6			

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

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

PH (UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE				JULY				AUGUST		
											SEPTEMBER	
1	6.2	5.9	6.0	6.3	6.1	6.2	6.5	6.2	6.3	7.9	6.1	6.8
2	6.1	5.9	6.0	6.3	6.1	6.2	6.8	6.2	6.4	8.0	6.2	6.8
3	5.9	5.8	5.9	6.4	6.1	6.2	6.6	6.2	6.4	8.0	6.2	6.7
4	6.1	5.9	6.0	6.4	6.1	6.2	6.9	6.1	6.4	7.3	6.2	6.5
5	6.2	5.9	6.0	6.5	6.1	6.2	7.0	6.2	6.5	6.8	6.1	6.4
6	6.2	6.0	6.1	6.6	6.2	6.4	7.3	6.2	6.5	6.7	6.1	6.4
7	6.0	5.9	6.0	6.8	6.2	6.5	7.5	6.2	6.6	6.9	6.1	6.4
8	6.1	5.9	6.0	6.6	6.2	6.4	7.8	6.2	6.8	6.8	6.1	6.4
9	6.2	6.0	6.1	6.9	6.2	6.5	8.1	6.2	6.8	6.8	6.1	6.4
10	6.2	6.0	6.1	7.3	6.2	6.6	8.2	6.2	6.9	6.8	6.1	6.4
11	6.2	6.0	6.1	7.4	6.2	6.8	6.6	6.2	6.4	7.2	6.2	6.5
12	6.3	6.0	6.2	8.0	6.3	6.9	6.7	6.2	6.4	7.5	6.2	6.6
13	6.3	6.0	6.2	7.9	6.2	6.8	7.0	6.2	6.5	7.4	6.2	6.6
14	6.4	6.0	6.2	8.2	6.3	7.0	6.9	6.3	6.5	6.7	6.1	6.3
15	6.5	6.0	6.2	8.4	6.3	7.1	7.4	6.3	6.6	6.7	6.1	6.3
16	6.2	6.0	6.1	8.7	6.3	7.2	7.6	6.4	6.8	6.8	6.1	6.4
17	6.3	5.9	6.1	7.3	6.3	6.6	7.7	6.4	6.8	6.6	6.1	6.3
18	6.4	6.0	6.2	7.2	6.2	6.6	8.1	6.4	7.0	6.4	6.0	6.1
19	6.5	6.0	6.2	7.4	6.3	6.7	7.0	6.4	6.6	6.5	6.0	6.2
20	6.2	6.0	6.1	8.2	6.3	6.9	6.8	6.4	6.6	6.7	6.0	6.3
21	6.4	6.0	6.2	8.4	6.3	7.0	7.1	6.4	6.7	6.9	5.9	6.3
22	6.5	6.0	6.2	8.7	6.3	7.2	7.2	6.5	6.8	7.2	6.0	6.5
23	6.6	6.0	6.2	8.3	6.4	6.8	7.9	6.5	6.9	7.6	6.1	6.7
24	6.7	5.9	6.2	7.3	6.4	6.7	8.2	6.5	7.0	7.9	6.2	6.9
25	6.8	5.9	6.3	7.6	6.2	6.8	8.5	6.5	7.2	7.5	6.3	6.7
26	7.1	6.0	6.3	8.2	6.1	6.9	8.4	6.5	7.1	7.5	6.2	6.7
27	7.8	6.0	6.7	8.4	6.1	6.9	8.1	6.2	7.1	7.6	6.4	6.8
28	7.7	6.0	6.6	8.3	6.1	6.9	7.1	6.1	6.5	7.7	6.4	6.8
29	6.3	6.0	6.2	6.5	6.1	6.2	6.7	6.1	6.3	7.3	6.4	6.7
30	6.2	6.1	6.1	6.4	6.0	6.2	6.7	6.1	6.4	6.6	6.3	6.5
31	---	---	---	6.5	6.2	6.3	7.4	6.1	6.5	---	---	---
MONTH	7.8	5.8	6.2	8.7	6.0	6.6	8.5	6.1	6.7	8.0	5.9	6.5
YEAR	8.7	5.4	6.4									

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

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1				---	---	---	7.5	4.5	6.0	14.5	12.0	13.5
2				---	---	---	6.5	5.5	6.0	13.0	11.5	12.0
3				---	---	---	8.5	4.0	6.5	---	---	---
4				---	---	---	7.0	6.5	7.0	---	---	---
5				---	---	---	7.5	6.0	6.5	---	---	---
6				---	---	---	9.5	6.0	7.5	---	---	---
7				---	---	---	10.5	7.0	9.0	---	---	---
8				---	---	---	9.5	8.5	9.0	---	---	---
9				---	---	---	10.0	8.5	9.5	---	---	---
10				---	---	---	10.0	9.0	9.5	---	---	---
11				---	---	---	12.0	9.0	10.5	---	---	---
12				---	---	---	12.0	10.0	11.0	---	---	---
13				---	---	---	13.5	11.0	12.0	---	---	---
14				---	---	---	11.5	10.5	11.5	---	---	---
15				---	---	---	14.0	10.5	12.5	---	---	---
16				---	---	---	12.5	10.0	11.5	17.5	15.0	17.0
17				---	---	---	12.5	10.0	11.5	18.0	15.0	17.0
18				---	---	---	12.0	10.0	11.0	17.5	16.0	16.5
19				---	---	---	14.0	10.0	12.0	18.0	15.5	17.0
20				4.0	3.0	3.5	14.5	11.0	13.0	19.5	17.0	18.5
21				3.5	3.0	3.5	16.0	12.5	14.5	18.5	16.0	17.0
22				3.0	1.0	1.5	13.5	11.0	12.5	19.0	15.0	17.0
23				4.0	1.0	2.5	12.5	10.5	11.5	21.5	17.5	19.5
24				4.5	2.0	3.5	13.5	10.0	12.0	21.0	19.0	20.5
25				3.5	3.0	3.5	15.0	12.0	13.5	21.5	19.0	20.0
26				4.5	3.0	3.5	14.5	12.0	13.5	20.0	17.5	18.5
27				5.0	3.5	4.0	14.5	11.5	13.0	20.0	16.5	18.0
28				6.0	3.5	5.0	13.5	10.5	12.0	20.0	17.0	18.5
29				6.5	5.0	6.0	14.5	10.0	12.5	21.0	17.0	19.0
30				5.5	5.0	5.5	13.0	10.0	11.5	21.0	17.5	19.0
31				5.5	5.0	5.0	---	---	---	20.5	19.0	19.5
MONTH				6.5	1.0	4.0	16.0	4.0	10.5	21.5	11.5	17.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	23.5	18.5	21.0	21.5	18.5	20.0	25.5	23.5	24.5	28.0	23.0	25.5
2	22.5	20.5	21.0	21.5	20.5	21.0	27.0	24.5	25.5	29.5	24.0	26.5
3	21.0	20.0	20.5	23.5	21.0	22.0	26.5	24.0	25.5	28.0	24.0	25.5
4	20.5	19.0	20.0	26.0	22.5	24.5	28.0	25.0	26.5	28.0	22.5	24.5
5	20.0	18.5	19.5	26.0	23.0	24.5	27.0	25.5	26.5	25.0	23.0	24.0
6	21.0	17.5	19.5	25.0	22.5	24.0	29.0	26.5	27.5	27.5	22.5	24.5
7	20.0	17.5	19.0	24.5	21.0	22.5	29.0	25.5	27.0	26.0	21.0	23.0
8	18.0	16.0	17.5	22.5	21.0	22.0	29.5	25.5	27.5	25.0	19.5	22.0
9	16.5	15.0	15.5	24.5	20.0	22.5	29.5	25.5	27.5	24.0	17.5	20.5
10	16.5	15.0	16.0	26.0	22.0	24.0	28.5	24.0	26.0	23.5	18.5	21.0
11	17.0	14.5	16.0	28.0	24.0	25.5	25.5	24.0	24.5	23.0	16.5	19.5
12	18.5	14.5	16.5	27.0	23.0	25.0	26.5	23.5	24.5	23.5	18.0	20.5
13	19.5	16.0	18.0	27.0	21.5	24.0	27.0	23.0	25.0	22.0	19.0	20.5
14	21.5	18.0	19.5	28.5	21.5	25.0	25.0	23.0	24.0	22.5	19.0	20.5
15	23.5	19.0	21.0	28.5	22.5	25.0	25.5	22.5	23.5	20.5	18.0	19.5
16	22.0	20.0	21.0	30.5	23.5	26.5	24.5	20.0	22.5	20.0	16.0	18.0
17	22.5	19.5	21.5	28.5	25.0	26.5	24.5	19.5	22.0	21.0	16.5	19.0
18	23.0	19.5	21.0	29.5	24.0	26.5	25.0	20.0	22.0	21.5	18.5	20.0
19	23.5	19.5	21.0	28.0	24.5	26.0	23.0	21.5	22.0	21.5	16.0	19.0
20	20.5	18.5	20.0	30.5	24.5	27.0	21.5	20.0	21.0	21.0	16.5	18.5
21	22.0	17.5	19.5	31.0	25.0	28.0	21.5	19.5	20.0	24.0	18.5	21.0
22	23.5	18.0	21.0	31.0	26.0	28.0	21.5	19.0	20.0	25.5	20.5	23.0
23	25.5	19.5	22.5	28.5	24.5	26.0	25.0	18.5	22.0	25.0	20.0	22.5
24	27.0	21.0	24.0	27.0	23.5	25.0	26.5	20.5	23.5	21.0	17.0	19.0
25	29.0	22.5	25.5	28.0	22.5	25.0	26.5	21.5	24.0	19.0	15.0	17.0
26	28.5	23.0	25.0	29.0	22.5	25.5	28.0	21.5	25.0	20.5	15.0	17.5
27	30.0	23.5	26.0	28.0	23.5	25.5	27.5	23.5	25.5	17.0	12.5	14.5
28	28.5	22.0	25.0	28.0	23.5	25.0	25.0	23.0	24.0	17.5	11.5	14.5
29	23.5	21.5	23.0	24.5	23.0	24.0	23.0	21.5	22.5	17.0	12.5	14.5
30	21.5	19.5	20.5	25.0	21.5	23.5	23.0	20.5	21.5	18.0	13.0	15.5
31	---	---	---	25.5	22.5	24.0	26.0	21.5	23.5	---	---	---
MONTH	30.0	14.5	20.5	31.0	18.5	24.5	29.5	18.5	24.0	29.5	11.5	20.5
YEAR	31.0	1.0	16.5									

THAMES RIVER BASIN

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01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.6	8.9	9.2	12.0	10.8	11.2	13.1	12.1	12.5			
2	9.6	8.9	9.2	11.8	10.0	10.8	13.1	12.3	12.7			
3	9.3	8.8	9.1	9.9	9.9	9.9	13.7	12.7	13.1			
4	9.7	9.1	9.3	---	---	---	13.5	12.7	13.0			
5	9.5	8.8	9.2	---	---	---	12.9	12.6	12.7			
6	9.7	8.9	9.3	---	---	---	---	---	---			
7	9.9	9.4	9.6	11.9	11.0	11.4	---	---	---			
8	10.3	9.6	10.0	11.8	11.0	11.3	---	---	---			
9	10.4	10.1	10.3	11.9	10.8	11.2	---	---	---			
10	11.1	10.3	10.8	11.1	10.4	10.7	---	---	---			
11	11.7	11.1	11.3	11.1	10.5	10.8	---	---	---			
12	11.4	11.0	11.2	11.4	11.0	11.3	---	---	---			
13	11.2	10.9	11.0	11.6	11.3	11.5	---	---	---			
14	11.5	11.0	11.2	11.8	11.3	11.5	---	---	---			
15	11.7	11.1	11.4	12.2	11.6	11.9	---	---	---			
16	11.6	11.0	11.3	12.3	11.8	12.0	---	---	---			
17	11.6	10.8	11.2	12.7	12.2	12.4	---	---	---			
18	11.2	10.5	10.8	12.6	11.9	12.3	---	---	---			
19	11.2	10.4	10.7	12.7	11.9	12.2	---	---	---			
20	10.9	10.0	10.4	12.6	11.6	12.1	---	---	---			
21	10.6	9.5	10.1	12.4	11.6	11.9	---	---	---			
22	10.3	9.1	9.6	12.3	11.6	11.9	---	---	---			
23	10.0	8.7	9.2	12.2	11.1	11.6	---	---	---			
24	9.4	8.4	8.8	11.8	10.6	11.2	---	---	---			
25	10.2	8.9	9.5	11.3	10.2	10.7	---	---	---			
26	11.0	9.7	10.3	10.7	9.7	10.1	---	---	---			
27	11.6	10.4	10.9	11.0	9.7	10.4	---	---	---			
28	11.6	11.0	11.2	11.6	10.7	11.0	---	---	---			
29	11.9	10.8	11.2	11.8	10.8	11.3	---	---	---			
30	11.8	10.7	11.1	12.5	11.5	12.0	---	---	---			
31	11.9	10.7	11.1	---	---	---	---	---	---			
MONTH	11.9	8.4	10.3	12.7	9.7	11.4	13.7	12.1	12.8			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	13.2	12.4	12.8	12.6	10.1	11.3
2				---	---	---	13.1	12.8	12.9	11.1	9.2	10.1
3				---	---	---	13.4	12.5	12.9	---	---	---
4				---	---	---	12.8	12.5	12.7	---	---	---
5				---	---	---	13.0	12.2	12.7	---	---	---
6				---	---	---	13.1	12.3	12.7	---	---	---
7				---	---	---	13.2	12.1	12.6	---	---	---
8				---	---	---	12.9	12.2	12.5	---	---	---
9				---	---	---	12.8	11.9	12.3	---	---	---
10				---	---	---	12.6	11.4	12.2	---	---	---
11				---	---	---	12.6	11.9	12.2	---	---	---
12				---	---	---	12.5	11.4	12.1	---	---	---
13				---	---	---	12.2	11.6	11.8	---	---	---
14				---	---	---	12.0	11.1	11.7	---	---	---
15				---	---	---	11.9	10.9	11.4	---	---	---
16				---	---	---	12.0	11.3	11.6	9.6	8.1	9.0
17				---	---	---	13.0	11.8	12.4	9.5	8.1	8.8
18				---	---	---	12.6	11.5	12.0	9.2	8.2	8.7
19				---	---	---	12.4	11.2	11.8	9.2	8.0	8.6
20				---	---	---	11.8	10.2	11.0	9.1	7.4	8.3
21				---	---	---	11.7	10.4	11.0	8.6	7.4	8.1
22				---	---	---	12.8	10.4	11.6	9.2	7.7	8.4
23				---	---	---	12.7	10.2	11.4	8.7	7.2	8.0
24				---	---	---	12.6	10.2	11.4	8.7	7.3	7.9
25				---	---	---	12.1	10.7	11.4	8.7	7.2	7.9
26				---	---	---	11.9	9.0	10.1	8.9	7.5	8.2
27				---	---	---	12.0	10.3	11.2	9.0	7.7	8.2
28				---	---	---	12.3	9.0	10.6	8.9	7.5	8.1
29				---	---	---	12.5	10.0	11.2	8.8	7.2	7.9
30				---	---	---	12.4	10.4	11.4	8.6	6.6	7.9
31				12.4	12.0	12.2	---	---	---	8.3	7.1	7.6
MONTH				12.4	12.0	12.2	13.4	9.0	11.9	12.6	6.6	8.5

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.1	6.8	7.4	8.3	7.1	7.8	8.4	6.9	7.6	9.5	6.2	7.7
2	8.0	6.9	7.3	8.0	7.2	7.5	8.5	6.6	7.4	9.3	6.1	7.5
3	8.0	7.2	7.6	8.1	6.8	7.4	8.3	6.7	7.3	9.2	6.1	7.3
4	8.3	7.5	7.9	7.9	6.5	7.2	8.4	6.6	7.3	9.4	6.3	7.6
5	8.5	7.7	8.1	8.1	6.4	7.1	8.8	6.0	7.4	9.0	6.2	7.5
6	8.6	7.4	8.1	8.1	6.3	7.2	8.8	6.4	7.2	9.1	6.0	7.3
7	8.1	7.3	7.7	8.5	6.8	7.6	9.0	6.2	7.4	9.2	6.0	7.4
8	8.5	7.9	8.1	8.3	6.8	7.4	9.3	5.8	7.3	9.4	6.2	7.5
9	9.2	8.2	8.7	8.8	6.7	7.8	9.3	5.8	7.2	9.2	6.4	7.7
10	9.0	8.2	8.6	8.8	6.4	7.5	9.7	5.9	7.4	9.1	6.3	7.5
11	9.1	8.2	8.6	8.8	6.0	7.2	8.1	6.0	6.9	9.6	6.2	7.7
12	9.1	7.9	8.6	8.9	5.9	7.2	8.4	6.4	7.2	9.8	6.1	7.6
13	9.0	7.5	8.3	9.2	6.0	7.3	8.4	6.2	7.2	9.4	6.0	7.4
14	8.6	6.9	7.8	9.4	5.9	7.4	8.7	6.3	7.2	8.5	5.8	6.9
15	8.7	6.8	7.7	9.5	5.9	7.4	9.2	6.3	7.4	8.8	5.5	7.0
16	8.5	7.0	7.6	9.8	5.6	7.3	9.3	6.7	7.9	9.0	6.1	7.4
17	8.6	7.0	7.7	8.3	5.3	6.7	9.6	7.2	8.2	8.8	5.7	7.1
18	8.7	7.1	7.8	8.4	5.3	6.6	9.8	7.2	8.3	8.8	5.6	7.1
19	8.9	6.9	7.9	8.6	5.3	6.8	9.1	7.0	7.8	9.0	6.0	7.3
20	8.3	7.0	7.6	9.2	5.1	6.7	9.0	7.1	7.8	9.1	6.1	7.4
21	9.0	7.4	8.1	9.3	4.9	6.7	9.4	7.2	8.1	8.8	5.6	7.0
22	9.2	6.9	7.9	9.6	5.0	6.9	9.5	7.2	8.2	9.0	5.5	6.8
23	9.0	6.5	7.8	9.0	5.0	6.5	9.7	6.7	8.1	9.0	5.4	7.1
24	9.1	6.2	7.5	8.6	5.6	6.9	9.8	6.5	7.9	9.7	6.3	7.9
25	8.8	5.8	7.3	8.8	5.7	6.9	9.8	6.4	7.9	9.6	6.8	8.0
26	9.0	5.9	7.3	9.4	5.6	7.3	9.7	6.0	7.6	9.5	6.6	7.8
27	8.5	5.3	6.7	9.8	5.6	7.5	9.8	5.9	7.8	10.7	7.7	9.2
28	8.7	5.2	6.7	9.9	5.9	7.6	8.9	6.0	7.3	11.0	8.4	9.5
29	7.2	5.2	6.3	7.7	5.9	6.8	9.0	6.3	7.3	10.8	8.4	9.3
30	7.9	6.6	7.3	8.1	7.2	7.7	9.1	6.6	7.7	10.0	8.4	9.0
31	---	---	---	8.2	7.1	7.6	9.6	6.6	7.9	---	---	---
MONTH	9.2	5.2	7.7	9.9	4.9	7.2	9.8	5.8	7.6	11.0	5.4	7.7
YEAR	13.7	4.9	9.1									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, Hydrologic Unit 01100001, 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.--September 1931 to current year.

REVISED RECORDS.--WSP 851: 1936(M). WSP 1201: 1939-43, 1949. WSP 1381: 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes, (see p. 121), and by smaller reservoirs upstream. Chemical analyses available for water years 1953 (WSP 1290), 1960 (WSP 1741), 1963 (WSP 1941), 1969 (WSP 2143). Water temperatures available for water year 1960 (WSP 1741).

AVERAGE DISCHARGE (adjusted for storage)--49 years, 270 ft³/s (7.646 m³/s), 23.52 in/yr (597 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,300 ft³/s (1,400 m³/s) Aug. 19, 1955, gage height, 18.96 ft (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 (about 0.03 m³/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4 and Oct. 29, 1956; minimum gage height, 1.74 ft (0.530 m) Aug. 20, 1940; minimum daily discharge, about 1 ft³/s (about 0.03 m³/s) Sept. 4, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Mar. 23, gage height, 5.83 ft (1.777 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 17, gage height, 2.01 ft (0.613 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	127	280	241	110	80	773	531	78	213	215	35
2	339	124	263	225	110	75	708	428	101	182	189	34
3	357	371	242	212	100	70	606	376	196	165	186	39
4	436	455	228	191	95	60	588	340	177	137	154	36
5	380	379	219	183	90	54	617	297	165	112	154	33
6	431	335	217	170	95	60	564	268	134	133	122	32
7	371	298	302	160	83	69	517	251	151	94	101	29
8	316	266	293	157	82	145	474	396	176	84	83	27
9	298	241	268	148	83	229	424	433	159	85	68	25
10	343	275	251	142	80	204	1030	390	150	74	54	22
11	390	308	237	157	74	580	1170	348	134	67	77	19
12	431	527	227	394	70	427	1180	321	119	63	84	17
13	485	471	225	349	67	354	1050	303	107	53	77	17
14	431	483	222	331	64	327	916	312	97	47	70	16
15	385	453	204	322	64	280	920	280	88	43	67	15
16	352	437	202	300	65	234	840	257	159	50	62	15
17	321	392	255	273	65	248	702	235	119	69	54	15
18	294	356	230	256	70	1380	597	218	104	52	49	33
19	277	325	210	258	70	1020	551	218	96	44	55	27
20	261	303	200	249	75	992	507	205	89	39	51	25
21	249	285	184	230	78	897	460	205	83	37	50	23
22	238	268	178	216	83	1360	418	222	73	36	48	22
23	224	257	181	212	93	1430	394	208	66	50	44	22
24	217	249	196	198	95	1740	363	194	59	70	42	18
25	191	242	342	185	95	1340	344	163	52	59	41	17
26	166	290	438	172	97	1270	331	136	46	51	39	21
27	148	385	407	163	91	1210	320	119	42	46	37	17
28	141	354	368	146	87	1100	290	114	38	42	34	17
29	141	331	329	141	85	555	424	100	56	135	32	17
30	131	300	297	130	---	876	610	97	238	283	32	66
31	128	---	267	120	---	828	---	82	---	242	33	---
TOTAL	9060	9887	7962	6631	2406	19494	18688	8047	3352	2857	2404	751
MEAN	292	330	257	214	83.0	629	623	260	112	92.2	77.5	25.0
MAX	485	527	438	394	110	1740	1180	531	238	283	215	66
MIN	128	124	178	120	64	54	290	82	38	36	32	15
(+)	-0.7	+2.2	0	-1.5	-1.4	+27.7	-17.2	-11.0	+1.0	+1.8	-3.4	-0.5
MEAN†	291	332	257	212	81.6	657	606	249	113	94.0	74.1	24.5
CFSM†	1.87	2.13	1.65	1.36	0.52	4.21	3.88	1.60	0.72	0.60	0.48	0.16
IN‡	2.16	2.38	1.90	1.57	0.56	4.85	4.33	1.84	0.80	0.69	0.55	0.18

CAL YR 1979 TOTAL 135286.0 MEAN 371 MAX 2180 MIN 4.0 MEAN† 371 CFSM† 2.38 IN† 32.17
WTR YR 1980 TOTAL 91539.0 MEAN 250 MAX 1740 MIN 15 MEAN† 250 CFSM† 1.60 IN† 21.81

† Change in contents, equivalent in cubic feet per second, in East Brimfield and Westville Lakes; furnished by Corps of Engineers.

‡ Adjusted for change in contents.

01124151 QUINEBAUG RIVER AT WEST THOMPSON, CT

LOCATION.--Lat 41°56'36", long 71°54'03", Windham County, Hydrologic Unit 01100001, on left bank near downstream end of tailrace, upstream from concrete V-notch weir at flood-control dam at West Thompson.

DRAINAGE AREA.--172 mi² (445 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 291.00 ft (88.700 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by East Brimfield, Westville, and West Thompson Lakes (see p. 121), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--14 years, 315 ft³/s (8.921 m³/s), 24.87 in/yr (632 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,690 ft³/s (76.2 m³/s) Jan. 29, 1979, gage height, 6.99 ft (2.131 m); minimum, no flow part of many days 1970, 1972, 1975, 1976, 1979, (regulation); minimum daily, 7.5 ft³/s (0.21 m³/s) Sept. 2, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a discharge of about 48,200 ft³/s (about 1,360 m³/s), by comparison of peak flows at Quinebaug and Putnam, gage height, 20.1 ft (6.13 m) from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft³/s (55.8 m³/s) Mar. 27, gage height, 6.26 ft (1.908 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 5, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	140	314	269	107	80	835	700	64	215	264	31
2	281	135	293	235	105	75	781	496	148	205	225	17
3	329	264	273	216	102	70	657	416	236	152	231	12
4	452	541	252	206	99	68	638	370	215	114	202	11
5	425	460	237	198	96	68	705	325	194	117	176	11
6	434	396	229	178	94	69	652	292	166	117	159	12
7	420	346	284	162	93	75	589	267	157	117	134	12
8	364	310	325	160	92	100	532	336	186	114	108	12
9	315	277	304	155	93	208	438	476	186	114	89	12
10	344	273	278	150	91	237	384	448	171	78	70	15
11	399	319	262	152	88	507	902	403	159	53	67	14
12	433	534	248	338	83	564	1120	361	143	45	83	14
13	516	562	241	399	79	435	1110	332	128	45	85	14
14	486	528	241	358	78	385	1220	346	112	45	78	14
15	431	511	227	339	77	342	1120	318	100	45	73	42
16	393	479	217	328	78	286	1070	289	128	45	68	56
17	357	444	245	303	81	256	797	262	143	45	61	54
18	327	405	252	282	83	736	652	244	72	45	53	53
19	304	371	222	273	85	1040	571	236	46	45	54	53
20	282	343	208	271	87	1140	537	228	47	45	56	53
21	268	323	190	255	89	856	500	217	68	45	52	44
22	257	300	180	211	93	29	461	236	78	45	51	31
23	242	283	186	204	99	835	391	231	91	45	47	26
24	232	274	209	190	108	1690	377	220	100	83	43	23
25	221	264	275	177	110	1760	350	194	100	68	41	21
26	195	274	470	173	112	1810	346	136	94	45	39	21
27	170	402	467	163	107	1890	350	112	60	45	37	19
28	157	410	456	157	103	1820	256	114	44	82	34	18
29	155	378	394	150	93	1120	273	114	41	139	33	17
30	151	343	344	127	---	852	602	80	145	299	30	25
31	144	---	302	108	---	874	---	64	---	350	30	---
TOTAL	9669	10889	8625	6887	2705	20277	19216	8863	3622	3047	2773	757
MEAN	312	363	278	222	93.3	654	641	286	121	98.3	89.5	25.2
MAX	516	562	470	399	112	1890	1220	700	236	350	264	56
MIN	144	135	180	108	77	29	256	64	41	45	30	11
(†)	-2.7	+6.2	-3.1	+2.8	-6.0	+33.6	-10.0	-22.3	-3.0	+8.4	-7.7	-5.4
MEAN†	309	369	275	225	87.3	688	631	264	118	107	81.8	19.8
CFSM†	1.80	2.15	1.60	1.31	0.51	4.00	3.67	1.53	0.69	0.62	0.48	0.12
IN†	2.08	2.40	1.84	1.51	0.55	4.61	4.10	1.76	0.77	0.72	0.55	0.13

CAL YR 1979 TOTAL 144437 MEAN 396 MAX 2490 MIN 27 MEAN† 396 CFSM† 2.30 IN† 31.24
WTR YR 1980 TOTAL 97330 MEAN 266 MAX 1890 MIN 11 MEAN† 265 CFSM† 1.54 IN† 21.02

† Change in contents, equivalent in cubic feet per second, in East Brimfield, Westville, and West Thompson Lake, furnished by Corps of Engineers.

‡ Adjusted for change in contents.

THAMES RIVER BASIN

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01125150 FRENCH RIVER AT MECHANICSVILLE, CT

LOCATION.--Lat 41°56'51", long 71°53'23", Windham County, Hydrologic Unit 01100001, at bridge on West Thompson Road, 0.5 mi (0.8 km) northeast of Mechanicville, and 0.7 mi (0.3 km) upstream from Quinebaug River.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--Water years 1962-63, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharges at stations 01124151, 0.2 mi (0.3 km) upstream from the French River on the Quinebaug River, and 01125500, 2.7 mi (4.3 km) downstream from the French River on the Quinebaug River; adjusting the discharge at station 01125500 by a drainage-area ratio factor of 0.87; and subtracting this value from the discharge at station 01124151.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1510	203	118	7.0	10.0	9.0	60	5.0	10.0	86	10000	--
NOV												
14...	1410	556	90	6.3	8.5	8.0	40	3.0	11.8	99	20000	--
DEC												
12...	1105	145	110	6.2	15.0	3.5	40	3.0	13.0	98	800	--
JAN												
17...	1440	156	115	6.5	3.5	2.5	20	1.0	13.7	100	4900	160
FEB												
12...	1500	45	190	6.6	3.0	3.0	30	2.0	14.0	104	400	84
MAR												
20...	1435	716	96	6.7	17.0	4.0	20	3.0	14.0	106	280	180
APR												
15...	1330	653	84	7.0	22.0	12.0	15	2.0	11.3	105	3100	160
MAY												
13...	1350	256	102	6.9	23.0	16.0	21	2.0	9.9	100	5400	50
JUN												
13...	1340	87	150	6.8	26.0	19.5	30	2.0	8.9	97	10000	84
JUL												
14...	1345	59	125	6.8	29.0	25.5	25	2.0	9.0	108	24000	140
AUG												
13...	1335	67	162	7.0	27.0	25.5	22	3.0	8.5	105	30000	170
SEP												
03...	1445	35	222	6.9	26.0	25.5	10	2.0	8.6	104	32000	160

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	44	K16	21	5	6.5	1.1	16	12	15	6.4	81	.11
NOV												
14...	360	140	--	--	--	--	--	--	12	--	82	.11
DEC												
12...	41	K10	--	--	--	--	--	--	12	--	68	.09
JAN												
17...	--	26	21	0	6.4	1.2	31	13	13	6.5	68	.09
FEB												
12...	--	K11	--	--	--	--	--	--	18	--	104	.14
MAR												
20...	--	30	--	--	--	--	--	--	12	--	62	.08
APR												
15...	--	60	15	4	4.5	.9	11	11	11	4.2	58	.08
MAY												
13...	--	36	--	--	--	--	--	--	11	--	66	.09
JUN												
13...	--	72	--	--	--	--	--	--	12	--	103	.14
JUL												
14...	--	92	22	7	7.0	1.2	15	13	16	3.1	83	.11
AUG												
13...	--	220	--	--	--	--	--	--	14	--	90	.12
SEP												
03...	--	120	--	--	--	--	--	--	18	--	121	.16

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01125150 FRENCH RIVER AT MECHANICSVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 12...	44.4	89	--	--	.56	.16	.19	.40	.56	1.1	5.0
NOV 14...	123	73	.35	.01	.36	.07	.08	.52	.59	.95	4.2
DEC 12...	26.6	77	.46	.02	.48	.24	.29	.31	.55	1.0	4.6
JAN 17...	28.6	71	--	--	.69	.33	.40	.33	.66	1.4	6.0
FEB 12...	12.6	116	.84	.03	.87	.89	1.1	.81	1.7	2.6	11
MAR 20...	120	59	.34	.01	.35	.23	.28	.64	.87	1.2	5.4
APR 15...	102	69	--	--	.33	.08	.10	.36	.44	.77	3.4
MAY 13...	45.6	76	.41	.05	.46	.16	.19	.64	.80	1.3	5.6
JUN 13...	24.2	103	.90	.05	.95	.11	.13	.75	.86	1.8	8.0
JUL 14...	13.2	76	--	--	.88	.01	.01	1.6	1.6	2.5	11
AUG 13...	16.3	90	1.4	.01	1.4	.09	.11	.61	.70	2.1	9.3
SEP 03...	11.4	133	2.2	.01	2.2	.03	.04	.83	.86	3.1	14

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	.130	.40	5	300	20	10	9.8	.00	.000	.000
NOV 14...	.010	.03	2	--	--	20	5.9	--	--	--
DEC 12...	.100	.31	5	--	--	10	6.8	--	--	--
JAN 17...	.180	.55	5	150	20	40	7.4	.10	1.42	.000
FEB 12...	.430	1.3	12	--	--	20	7.6	--	--	--
MAR 20...	.070	.21	2	--	--	20	5.5	--	--	--
APR 15...	.130	.40	2	110	20	10	4.5	--	3.95	.000
MAY 13...	.170	.52	5	--	--	10	6.1	--	--	--
JUN 13...	.290	.89	9	--	--	10	7.9	--	--	--
JUL 14...	.420	1.3	7	330	30	9	7.0	.10	13.9	4.48
AUG 13...	.370	1.1	7	--	--	10	7.8	--	--	--
SEP 03...	.450	1.4	11	--	--	10	7.1	--	--	--

THAMES RIVER BASIN

93

01125200 QUINEBAUG RIVER AT PUTNAM, CT

LOCATION.--Lat 41°55'07", long 71°54'38", Windham County, Hydrologic Unit 01100001, at bridge on Bridge Street, at Putnam, 2.1 mi (3.4 km) downstream from French River, and 0.5 mi (0.8 km) upstream from Little River.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--Water years 1962, 1974, to September 1980 (discontinued).

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01125500, 0.7 mi (1.1 km) downstream and adjusting its discharge by multiplying by a factor of 0.88, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1420	642	105	7.0	12.0	9.0	50	3.0	10.7	92	10000	--
NOV												
14...	1320	1100	92	5.9	8.5	8.0	40	1.0	12.2	103	10000	--
DEC												
12...	1020	407	103	6.4	13.5	2.5	30	3.0	13.3	97	2100	--
JAN												
17...	1345	466	102	6.6	2.0	2.0	10	2.0	13.5	97	3700	100
FEB												
12...	1330	128	155	6.6	4.5	2.0	10	2.0	13.8	99	660	21
MAR												
20...	1340	1950	78	6.3	17.0	4.0	20	3.0	14.6	111	580	150
APR												
15...	1245	1950	75	6.9	21.0	11.5	10	3.0	11.7	106	2000	340
MAY												
13...	1300	595	93	7.0	20.0	15.0	14	4.0	10.1	99	3300	80
JUN												
13...	1310	217	110	6.9	25.5	18.5	20	2.0	9.5	101	3500	110
JUL												
14...	1315	105	120	7.5	28.5	25.0	28	6.0	9.4	112	26000	440
AUG												
13...	1250	154	137	7.4	27.0	25.5	30	7.0	8.1	98	90000	280
SEP												
03...	1400	47	190	7.8	26.5	26.0	10	3.0	9.2	112	16000	360

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	640	88	21	13	6.0	1.4	8	9.9	16	6.9	71	.10
NOV												
14...	420	400	--	--	--	--	--	--	12	--	82	.11
DEC												
12...	92	21	--	--	--	--	--	--	13	--	66	.09
JAN												
17...	--	27	20	0	5.5	1.4	37	12	13	7.1	62	.08
FEB												
12...	--	K10	--	--	--	--	--	--	26	--	80	.11
MAR												
20...	--	130	--	--	--	--	--	--	11	--	56	.08
APR												
15...	--	37	15	8	4.2	1.1	7	9.3	9.7	4.9	51	.07
MAY												
13...	--	22	--	--	--	--	--	--	12	--	58	.08
JUN												
13...	--	120	--	--	--	--	--	--	14	--	82	.11
JUL												
14...	--	140	22	4	6.5	1.4	18	11	17	3.5	80	.11
AUG												
13...	--	150	--	--	--	--	--	--	14	--	66	.09
SEP												
03...	--	42	--	--	--	--	--	--	15	--	103	.14

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01125200 QUINEBAUG RIVER AT PUTNAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
12...	123	82	--	--	.30	.06	.07	.45	.51	.81	3.6
NOV											
14...	244	71	.29	.01	.30	.06	.07	.53	.59	.89	3.9
DEC											
12...	72.5	72	.36	.01	.37	.13	.16	.27	.40	.77	3.4
JAN											
17...	78.0	65	--	--	.40	.15	.18	.16	.31	.71	3.1
FEB											
12...	27.6	91	.41	.02	.43	.76	.92	.00	.70	1.1	5.0
MAR											
20...	295	54	.34	.01	.35	.17	.21	.51	.68	1.0	4.6
APR											
15...	269	74	--	--	.25	.08	.10	.24	.32	.57	2.5
MAY											
13...	93.2	70	.26	.02	.28	.11	.13	.49	.60	.88	3.9
JUN											
13...	48.0	82	.60	.02	.62	.18	.22	.61	.79	1.4	6.2
JUL											
14...	22.7	80	--	--	.26	.01	.01	.94	.95	1.2	5.4
AUG											
13...	27.4	65	.48	.01	.49	.04	.05	.41	.45	.94	4.2
SEP											
03...	13.1	113	1.2	.01	1.2	.04	.05	.90	.94	2.1	9.5

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
12...	.090	.28	5	360	30	4	7.4	.00	.010	.000
NOV										
14...	.090	.28	5	--	--	20	6.0	--	--	--
DEC										
12...	.080	.25	4	--	--	10	4.8	--	--	--
JAN										
17...	.080	.25	4	150	30	20	5.5	.00	1.42	.000
FEB										
12...	.250	.77	6	--	--	20	4.7	--	--	--
MAR										
20...	.060	.18	3	--	--	20	5.1	--	--	--
APR										
15...	.060	.18	3	90	30	6	6.3	.00	3.55	.000
MAY										
13...	.100	.31	3	--	--	0	4.9	--	--	--
JUN										
13...	.200	.61	6	--	--	10	4.5	--	--	--
JUL										
14...	.290	.89	5	430	50	4	7.8	.10	33.3	3.22
AUG										
13...	.280	.86	5	--	--	10	13	--	--	--
SEP										
03...	.340	1.0	7	--	--	0	6.3	--	--	--

THAMES RIVER BASIN

95

01125415 MUDDY BROOK AT CHILDS HILL ROAD NEAR WOODSTOCK, CT

LOCATION.--Lat 41°57'56", long 71°57'45", Windham County, Hydrologic Unit 01100001, on right bank 20 ft (6.1 m) downstream from bridge on Childs Hill Road, 1.3 mi (2.1 km) northeast of Woodstock, and 1.7 mi (2.7 km) northwest from outlet of Roseland Lake and the headwater of Little River.

DRAINAGE AREA.--20.1 mi² (52.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurements April 1962 to September 1962, July 19, 1978 to October 30, 1978; water year 1979 to current year.

GAGE.--Water-stage recorder. Datum at gage is 287.19 ft (87.536 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1936 reached a discharge of 2,520 ft³/s (71.4 m³/s), from dam computation, at site on Little River, 4.1 m (6.6 km) downstream, 35.8 mi² (92.7 km²). Flood of Aug. 19, 1955 was probably largest since 1936 but was not measured. For period 1962-76, at same site, flood of Mar. 3, 1972 reached a discharge of 1,250 ft³/s (35.4 m³/s) measured by current meter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 648 ft³/s (18.4 m³/s) Mar. 22, gage height, 6.07 ft (1.850 m); minimum, 0.9 ft³/s (0.025 m³/s) Sept. 3, gage height, 1.89 ft (0.576 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	26	21	3.1	2.4	63	48	15	31	17	3.0
2	26	11	25	20	2.8	2.1	55	41	16	21	28	2.9
3	24	66	24	18	2.7	2.0	52	36	25	18	35	1.1
4	36	70	23	13	2.5	2.0	69	33	23	16	23	1.3
5	29	46	23	12	2.4	1.9	79	29	19	13	16	1.4
6	32	34	23	11	2.3	1.9	60	28	17	14	12	1.8
7	26	30	37	10	2.3	4.0	51	28	26	12	9.4	1.8
8	22	27	31	9.5	2.3	23	47	51	27	10	6.9	2.0
9	20	25	26	9.0	2.2	28	47	49	23	11	5.7	1.7
10	28	32	24	8.4	2.2	18	345	37	21	8.2	4.2	1.8
11	35	40	22	11	2.2	210	188	33	20	6.2	6.7	1.5
12	37	85	20	54	2.2	57	92	32	18	5.4	10	1.4
13	52	62	19	36	2.2	32	71	32	16	4.8	8.2	1.8
14	37	55	19	29	2.2	26	65	35	15	3.6	6.4	2.1
15	30	46	18	29	2.3	25	80	30	14	2.9	5.7	2.4
16	25	40	23	28	2.4	21	67	27	20	2.1	4.6	2.6
17	23	35	20	25	2.5	34	57	25	18	2.7	3.8	2.7
18	20	33	18	24	2.6	397	51	24	15	2.7	3.6	5.9
19	18	31	15	26	2.8	128	47	25	14	1.8	5.2	4.2
20	16	29	13	25	2.9	56	43	24	13	1.4	6.2	4.0
21	14	28	13	22	3.2	70	40	26	13	1.4	5.9	2.9
22	13	27	14	19	3.8	519	37	28	12	1.4	5.7	2.7
23	37	26	18	17	5.7	229	36	23	11	6.4	5.0	2.3
24	18	25	23	15	6.1	121	35	20	9.7	25	4.6	2.0
25	18	24	48	11	5.7	98	34	19	8.8	16	4.4	2.3
26	14	31	52	10	5.3	89	33	17	7.4	10	3.4	3.6
27	13	49	38	8.4	4.3	73	32	16	6.2	6.4	3.0	3.2
28	13	37	31	6.5	3.3	66	34	16	6.2	4.4	3.4	3.4
29	16	32	28	5.5	2.8	62	79	15	12	20	2.6	3.4
30	13	29	26	4.6	---	86	63	14	30	58	2.6	3.4
31	12	---	24	3.5	---	77	---	14	---	26	2.4	---
TOTAL	731	1116	764	541.4	89.3	2561.3	2052	875	491.3	362.8	260.6	76.6
MEAN	23.6	37.2	24.6	17.5	3.08	82.6	68.4	28.2	16.4	11.7	8.41	2.55
MAX	52	85	52	54	6.1	519	345	51	30	58	35	5.9
MIN	12	11	13	3.5	2.2	1.9	32	14	6.2	1.4	2.4	1.1
CFSM	1.17	1.85	1.22	.87	.15	4.11	3.40	1.40	.82	.58	.42	.13
IN.	1.35	2.07	1.41	1.00	.17	4.74	3.80	1.62	.91	.67	.48	.14

CAL YR 1979 TOTAL 14904.1 MEAN 40.8 MAX 587 MIN 1.1 CFSM 2.03 IN 27.58
WTR YR 1980 TOTAL 9921.3 MEAN 27.1 MAX 519 MIN 1.1 CFSM 1.35 IN 18.36

THAMES RIVER BASIN

01125415 MUDDY BROOK AT CHILDS HILL RD NEAR WOODSTOCK, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 1980.

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE.--May to September 1980.

REMARKS.--Daily suspended-sediment record for this report will be published in the 1981 annual report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
JUN 30...	1210	27	90	6.8	--	18.0	8.1	85	10000	12000
JUL 18...	1150	3.0	110	6.7	27.5	23.0	8.2	96	1200	260
30...	0908	57	71	6.4	26.0	20.6	7.1	79	10000	13000

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JUN 30...	.48	.46	E2.0	.02	.01	.03	.50	.47	.19	.07
JUL 18...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N03)
JUN 30...	.23	.09	.57	.32	.76	.37	.39	1.3	.86	5.6
JUL 18...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P04)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P04)	PHOS- PHORUS, HYDRO- LYZABLE DISSOL. (MG/L AS P)	PHOS- PHORUS, HYDRO- LYZABLE DISSOL. (MG/L AS P)	PHOS- PHORUS, HYDRO- LYZABLE DISSOL. (MG/L AS P)
JUN 30...	.060	.25	.18	.040	.08	.02	.06	.07	.09	.00
JUL 18...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

E ESTIMATED VALUE

THAMES RIVER BASIN

97

01125415 MUDDY BROOK AT CHILDS HILL RD NEAR WOODSTOCK, CT--Continued
 SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
MAY					MAY				
09...	1000	50	3	.40	30...	0900	15	2	.08
10...	0900	39	3	.32	31...	0900	14	4	.15
11...	0730	34	4	.37	JUN				
12...	0830	32	3	.26	01...	0900	15	2	.08
13...	1100	31	3	.25	02...	0845	15	2	.08
14...	1015	37	4	.40	03...	0830	26	4	.28
15...	0930	31	2	.17	04...	0830	24	4	.26
16...	0830	28	2	.15	05...	0900	19	2	.10
17...	0900	26	2	.14	06...	0830	17	2	.09
18...	0930	23	2	.12	07...	0930	18	3	.15
19...	0900	26	3	.21	08...	0900	27	3	.22
20...	0900	24	4	.26	09...	0900	23	1	.06
21...	0900	22	2	.12	10...	0900	22	1	.06
22...	0900	29	3	.23	11...	0900	20	2	.11
23...	0900	24	3	.19	12...	0900	18	3	.15
24...	0930	21	3	.17	13...	0930	17	1	.05
25...	0830	20	3	.16	14...	0930	15	1	.04
26...	0800	18	2	.10	15...	0900	14	2	.08
27...	0900	17	3	.14	16...	0900	22	4	.24
28...	0830	16	2	.09					
29...	0900	15	2	.08					
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
JUN					JUL				
17...	0900	18	5	.24	06...	0800	14	11	.42
18...	0800	16	4	.17	15...	0900	3.0	5	.04
19...	0900	14	4	.15	16...	0830	2.3	6	.04
20...	0830	12	5	.16	17...	0900	2.9	4	.03
21...	0830	13	4	.14	18...	0730	3.0	9	.07
22...	0830	12	3	.10	18...	1150	3.0	--	--
23...	0900	11	4	.12	19...	0730	2.1	8	.05
24...	0900	9.7	6	.16	21...	1200	1.4	4	.02
25...	0800	8.8	8	.19	22...	0630	1.7	9	.04
26...	0900	7.7	5	.10	23...	0930	2.7	5	.04
27...	0730	6.7	4	.07	24...	0930	26	6	.42
28...	0700	5.7	5	.08	25...	0700	16	3	.13
29...	0730	7.7	3	.06	26...	0730	11	6	.18
30...	0800	30	8	.65	27...	0830	6.7	1	.02
30...	1210	27	3	.22	28...	0830	5.0	3	.04
JUL					29...	0730	3.6	2	.02
01...	0730	33	17	1.5	30...	0800	64	15	2.6
02...	0800	21	6	.34	30...	0908	57	--	--
03...	0900	19	5	.26	31...	0800	28	7	.53
04...	0800	16	5	.22					
05...	0830	13	7	.25					

01125415 MUDDY BROOK AT CHILDS HILL RD NEAR WOODSTOCK, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
AUG					AUG				
01...	0800	17	5	.23	22...	0900	5.7	2	.03
02...	0800	14	7	.26	23...	0800	5.2	4	.06
03...	0800	41	11	1.2	24...	0800	4.8	5	.06
04...	0900	24	8	.52	25...	0900	4.8	4	.05
05...	0800	17	3	.14	26...	0730	3.8	3	.03
06...	0800	12	6	.19	27...	0800	3.2	12	.10
07...	0700	10	3	.08	28...	0730	3.6	4	.04
08...	0900	6.9	1	.02	29...	0830	2.6	1	.01
09...	0730	5.7	3	.05	30...	0800	2.6	4	.03
10...	0800	4.2	3	.03	31...	0800	2.7	5	.04
11...	0830	7.2	3	.06	SEP				
12...	0800	11	2	.06	01...	0900	3.2	5	.04
13...	0800	8.5	15	.34	02...	1100	2.9	4	.03
14...	0730	6.7	3	.05	03...	1300	1.0	5	.01
15...	0800	5.4	4	.06	04...	1000	1.5	3	.01
16...	0800	4.6	1	.01	05...	0900	1.4	4	.02
17...	0730	4.0	1	.01	06...	0930	2.0	5	.03
18...	0800	3.6	4	.04	07...	0930	2.0	5	.03
19...	0900	5.0	2	.03	08...	0900	2.1	5	.03
20...	0900	5.9	3	.05					
21...	0800	5.9	5	.08					
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
SEP					SEP				
09...	0900	1.8	3	.01	21...	0900	2.9	2	.02
10...	0930	2.1	4	.02	22...	0800	2.9	1	.01
11...	0930	1.5	1	.00	23...	0730	2.7	1	.01
12...	0900	1.5	1	.00	24...	0900	2.1	1	.01
13...	0930	1.8	1	.00	25...	0800	2.3	1	.01
14...	0800	2.1	1	.01	26...	0830	3.8	1	.01
15...	0900	2.4	1	.01	27...	0930	3.4	3	.03
16...	0800	2.9	1	.01	28...	0900	3.4	1	.01
17...	0930	2.9	1	.01	29...	0900	3.2	11	.10
18...	0900	6.9	1	.02	30...	0930	3.6	1	.01
19...	0930	4.2	1	.01					
20...	0900	4.2	1	.01					

THAMES RIVER BASIN

99

01125720 QUINEBAUG RIVER AT POMFRET LANDING, CT

LOCATION.--Lat 41°50'57", Long 71°55'17", Windham County, Hydrologic Unit 01100001, at bridge on State Highway 101, at Pomfret Landing, 0.7 mi (1.1 km) northwest of Rogers, 0.4 mi (0.6 km) upstream from Fivemile River, and 5.3 mi (8.5 km) downstream from White Brook.

DRAINAGE AREA.--376 mi² (974 km²).

PERIOD OF RECORD.--Water years 1962-64, 1974, to September 1980 (discontinued).

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01125500, 2.7 mi (4.3 km) upstream, and adjusting its discharge by multiplying by a factor of 1.15, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 12...	1320	840	105	7.1	12.0	9.0	50	2.0	11.2	97	70000	--
NOV 14...	1230	1440	94	6.2	8.5	8.5	35	2.0	12.1	103	12000	--
DEC 12...	0925	531	106	6.4	10.5	2.5	30	2.0	13.3	97	5400	--
JAN 17...	1205	610	103	6.5	2.5	2.0	20	1.0	13.8	99	5600	150
FEB 12...	1235	168	155	6.4	4.5	1.0	10	1.0	13.6	96	3100	280
MAR 20...	1220	2550	84	6.3	16.0	4.0	20	3.0	14.2	108	1100	160
APR 15...	1200	2550	78	6.9	21.5	11.5	10	2.0	11.6	105	2400	190
MAY 13...	1210	777	94	6.8	21.0	14.5	13	3.0	10.0	97	6500	360
JUN 13...	1210	284	108	6.9	27.0	17.5	20	2.0	10.5	109	600	64
JUL 14...	1230	137	122	7.0	28.0	23.5	21	6.0	10.2	119	45000	80
AUG 13...	1140	201	140	6.9	26.5	24.0	28	4.0	8.4	100	70000	200
SEP 03...	1310	61	190	6.5	28.0	24.5	5	2.0	6.6	78	70000	100

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 12...	10000	400	22	10	6.4	1.5	12	10	16	7.0	75	.10
NOV 14...	600	1000	--	--	--	--	--	--	12	--	68	.09
DEC 12...	140	28	--	--	--	--	--	--	13	--	68	.09
JAN 17...	--	39	21	11	6.0	1.5	10	12	12	7.4	64	.09
FEB 12...	--	53	--	--	--	--	--	--	19	--	84	.11
MAR 20...	--	210	--	--	--	--	--	--	11	--	56	.08
APR 15...	--	120	16	9	4.4	1.2	7	9.8	9.9	4.8	50	.07
MAY 13...	--	40	--	--	--	--	--	--	11	--	58	.08
JUN 13...	--	120	--	--	--	--	--	--	14	--	77	.10
JUL 14...	--	21	25	5	7.5	1.6	20	12	17	4.1	77	.10
AUG 13...	--	80	--	--	--	--	--	--	14	--	76	.10
SEP 03...	--	K13	--	--	--	--	--	--	19	--	103	.14

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01125720 QUINEBAUG RIVER AT POMFRET LANDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 12...	170	77	--	--	.33	.08	.10	.59	.67	1.0	4.4
NOV 14...	264	76	.35	.02	.37	.08	.10	.54	.62	.99	4.4
DEC 12...	97.5	54	.52	.01	.53	.13	.16	.30	.43	.96	4.3
JAN 17...	105	68	--	--	.47	.17	.21	.53	.70	1.2	5.2
FEB 12...	38.1	89	.47	.02	.49	.43	.52	.20	.63	1.1	5.0
MAR 20...	386	54	.37	.01	.38	.20	.24	.48	.68	1.1	4.7
APR 15...	344	79	--	--	.33	.10	.12	.41	.51	.84	3.7
MAY 13...	122	70	.33	.02	.35	.08	.10	.68	.76	1.1	4.9
JUN 13...	59.0	83	.69	.03	.72	.08	.10	.60	.68	1.4	6.2
JUL 14...	28.5	85	--	--	.28	.01	.01	.03	.04	.32	1.4
AUG 13...	41.2	77	.50	.01	.51	.03	.04	.56	.59	1.1	4.9
SEP 03...	17.0	114	.99	.01	1.0	.09	.11	.49	.58	1.6	7.0

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	.100	.31	5	350	20	2	6.9	.00	.000	.000
NOV 14...	.090	.28	3	--	--	10	6.0	--	--	--
DEC 12...	.080	.25	4	--	--	10	4.3	--	--	--
JAN 17...	.080	.25	3	140	30	30	6.1	.00	2.75	.000
FEB 12...	.230	.71	6	--	--	10	3.8	--	--	--
MAR 20...	.080	.25	2	--	--	20	5.1	--	--	--
APR 15...	.080	.25	3	100	30	0	5.1	.00	3.02	.000
MAY 13...	.090	.28	5	--	--	10	3.8	--	--	--
JUN 13...	.180	.55	5	--	--	10	6.5	--	--	--
JUL 14...	.230	.71	5	340	60	9	7.8	.10	38.9	3.18
AUG 13...	.210	.64	7	--	--	0	5.6	--	--	--
SEP 03...	.340	1.0	6	--	--	10	6.4	--	--	--

THAMES RIVER BASIN

101

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT
(National stream-quality accounting network station)

LOCATION.--Lat 41°35'52", long 71°59'05", New London County, Hydrologic Unit 01100001, on left bank behind high school on Slater Avenue at Jewett City, 570 ft (174 m) downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft (305 m) downstream from railroad bridge and at mile 6.1 (9.8 km).

DRAINAGE AREA.--715 mi² (1,852 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- July 1918 to current year.

REVISED RECORDS.--WSP 781: Drainage area. WSP 1301: 1919-26(M).

GAGE.--Water-stage recorder. Datum of gage is 63.07 ft (19.224 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, (see p. 121), by Lake Chaubunagungamaug, estimated usable capacity, 207,000,000 ft³ (5,860,000 m³) and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage)--62 years, 1,272 ft³/s (36.02 m³/s), 24.17 in/yr (614 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,700 ft³/s (1,150 m³/s) Aug. 20, 1955, gage height, 29.0 ft (8.84 m) from floodmarks, from rating curve extended above 11,000 ft³/s (312 m³/s) by computation of peak flows over three nearby dams at gage heights 21.7 ft (6.61 m), 22.5 ft (6.86 m), 24.0 ft (7.32 m), and 29.0 ft (8.84 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 25, 1948, Nov. 18, 1950; minimum gage height, 3.45 ft (1.052 m) Sept. 25, 1948; minimum daily discharge, 18 ft³/s (0.51 m³/s) Aug. 28, Dec. 11, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,660 ft³/s (359 m³/s) Mar. 22, gage height, 16.45 ft (5.014 m); minimum, 105 ft³/s (2.97 m³/s) Sept. 11, gage height, 4.20 ft (1.280 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	702	720	1380	1090	497	433	3650	2930	532	731	1550	203
2	768	702	1280	1020	504	430	3470	2540	532	731	1140	197
3	915	1830	1190	932	475	403	3150	2110	731	720	1170	184
4	1220	3790	1140	860	452	402	3260	1860	890	610	1140	153
5	1430	3110	1110	831	443	414	4300	1660	807	518	922	147
6	1480	2430	1080	736	424	420	3740	1520	731	658	774	147
7	1450	2040	1300	720	430	438	3120	1420	825	560	731	140
8	1300	1770	1460	700	430	518	2700	1570	1080	470	625	128
9	1140	1570	1370	700	429	872	2450	2080	1030	444	527	124
10	1190	1470	1270	657	429	1030	5060	2000	967	423	439	126
11	1410	1550	1200	699	412	1340	6690	1820	872	372	399	115
12	1530	2340	1160	1450	414	1970	5740	1690	774	321	470	113
13	1680	2850	1100	1790	402	1700	4980	1600	685	283	448	113
14	1710	2690	1050	1620	400	1600	4410	1600	615	262	419	119
15	1570	2530	1000	1490	405	1540	4380	1540	555	249	399	113
16	1450	2240	1140	1400	410	1360	4270	1410	518	240	372	113
17	1310	2000	1180	1280	420	1260	3630	1290	550	243	333	147
18	1210	1810	1170	1180	430	3120	3010	1190	527	243	294	219
19	1110	1660	960	1130	440	5050	2600	1180	435	224	309	216
20	1040	1550	915	1100	460	4360	2320	1160	406	227	333	193
21	980	1470	920	1050	469	4110	2160	1170	395	227	321	187
22	941	1390	920	987	499	10000	1980	1400	399	243	302	184
23	897	1320	920	994	555	10200	1850	1300	387	252	294	166
24	900	1280	954	900	647	7830	1710	1140	383	346	276	145
25	880	1240	1210	813	635	6940	1660	1010	372	379	259	130
26	860	1260	1670	817	613	6310	1580	878	350	321	246	128
27	850	1610	1750	754	572	5490	1580	747	329	262	230	126
28	830	1740	1590	720	520	5010	1730	685	280	236	221	121
29	800	1650	1470	688	500	4610	2180	652	276	590	213	115
30	800	1510	1320	616	---	3660	2720	615	387	3270	203	111
31	747	---	1200	535	---	3730	---	550	---	2240	200	---
TOTAL	35100	55122	37379	30259	13716	96550	96080	44317	17620	16895	15559	4423
MEAN	1132	1837	1206	976	473	3115	3203	1430	587	545	502	147
MAX	1710	3790	1750	1790	647	10200	6690	2930	1080	3270	1550	219
MIN	702	702	915	535	400	402	1580	550	276	224	200	111
(†)	-2.3	+7.8	-3.6	+1.3	-6.0	+78.8	-50.7	-28.4	-3.3	+9.1	-12.9	-2.5
MEAN†	1130	1845	1202	977	467	3194	3152	1402	584	554	489	144
CFSM†	1.58	2.58	1.68	1.37	0.65	4.47	4.41	1.96	0.82	0.77	0.68	0.20
IN†	1.82	2.88	1.94	1.58	0.70	5.15	4.92	2.26	0.92	0.89	0.78	0.22

CAL YR 1979 TOTAL 706117 MEAN 1935 MAX 13000 MIN 200 MEAN† 1935 CFSM† 2.71 IN† 36.72
WTR YR 1980 TOTAL 463020 MEAN 1265 MAX 10200 MIN 111 MEAN† 1264 CFSM† 1.77 IN† 24.06

† Change in contents, equivalent in cubic feet per second, in East Brimfield, Westville, and West Thompson Lakes, Hodges Village Reservoir, and Buffumville Lake; furnished by Corps of Engineers.

‡ Adjusted for change in contents.

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1955 to September 1956, October 1968 to current year.

INSTRUMENTATION.--Temperature recorder Oct. 1, 1968, to Sept. 30, 1974. Water-quality monitor since October 1974.

REMARKS.--Unpublished records of iron, specific conductance, pH of daily samples for 1955-56 available in district office at Hartford, Conn. Interruptions in the record are due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 309 micromhos July 23, 1975; minimum, 42 micromhos June 14, 1975, March 23, 1980.

WATER TEMPERATURES: Maximum, 32.5°C Aug. 2, 1975, May 8, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 140 micromhos February 13; minimum, 42 micromhos March 23.

WATER TEMPERATURES: Maximum, 29.0°C July 18; minimum, 0.0°C on Feb. 29, March 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1115	1530	91	7.0	12.5	9.0	60	3.0	11.5	99	7200	--
NOV												
14...	1040	2700	75	6.3	8.5	8.5	50	2.0	11.8	100	4000	--
DEC												
11...	1520	1190	95	6.4	13.0	4.0	30	1.0	12.2	92	1800	--
JAN												
17...	1030	1290	88	6.2	2.0	2.5	20	1.0	13.9	101	4100	160
FEB												
12...	1100	406	117	6.4	1.0	2.5	10	2.0	14.6	107	21000	800
MAR												
20...	1100	4430	74	6.0	13.0	4.0	30	5.0	13.8	105	750	480
APR												
15...	1020	4480	67	6.9	17.0	12.0	10	2.0	11.2	104	4600	620
MAY												
13...	1045	1620	82	6.9	16.5	15.5	15	3.0	9.8	97	10000	900
JUN												
13...	1025	700	86	7.2	18.5	17.5	20	3.0	9.8	102	2700	580
JUL												
14...	1045	276	105	9.0	25.0	24.0	30	9.0	8.9	105	22000	400
AUG												
13...	1000	454	114	7.3	24.5	25.0	25	6.0	8.6	103	70000	440
SEP												
03...	1115	195	144	7.9	25.0	25.0	15	5.0	8.0	95	95000	520

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)
OCT												
12...	760	110	21	2	6.2	1.4	8.9	52	.8	11	1.9	19
NOV												
14...	600	660	18	17	5.1	1.2	6.4	49	.7	8.0	1.6	1
DEC												
11...	170	46	20	13	5.7	1.4	8.6	46	.8	10	1.6	7
JAN												
17...	--	80	20	13	5.7	1.3	7.0	42	.7	8.4	1.4	7
FEB												
12...	--	400	25	4	7.2	1.7	9.9	44	.9	12	1.7	21
MAR												
20...	--	240	15	11	4.0	1.1	6.7	47	.8	8.4	1.7	4
APR												
15...	--	110	15	6	4.3	1.0	5.8	43	.7	--	1.3	9
MAY												
13...	--	200	19	6	5.5	1.3	7.4	44	.7	--	1.2	13
JUN												
13...	--	400	21	12	5.8	1.5	9.9	49	.9	--	1.5	9
JUL												
14...	--	170	24	8	7.0	1.5	9.2	44	.8	--	1.8	16
AUG												
13...	--	500	25	5	7.2	1.6	8.1	39	.7	--	2.0	20
SEP												
03...	--	44	30	9	8.7	2.0	10	40	.8	--	2.4	21

THAMES RIVER BASIN

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01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 12...	8.9	13	.1	7.3	69	66	.09	285	71	.37	1.4	.07
NOV 14...	8.4	9.9	.1	7.4	64	42	.09	467	65	.32	.34	.07
DEC 11...	11	11	.1	7.0	60	53	.08	193	66	.48	.53	.07
JAN 17...	11	11	--	7.4	57	52	.08	199	58	.53	.53	.16
FEB 12...	14	13	.1	7.3	67	71	.09	73.4	226	.87	.79	.15
MAR 20...	8.6	8.8	.1	4.9	56	40	.08	670	57	.44	.49	.21
APR 15...	8.9	8.2	.1	4.9	49	42	.07	593	62	.35	.34	.00
MAY 13...	10	9.5	.1	3.9	52	48	.07	227	70	.37	.36	.03
JUN 13...	9.8	13	.1	4.3	85	54	.12	161	87	.56	.63	.12
JUL 14...	10	13	.1	4.4	73	57	.10	54.4	62	.06	.07	.00
AUG 13...	9.6	11	.1	5.5	71	58	.10	87.0	94	.16	.11	.06
SEP 03...	13	14	.1	5.0	78	69	.11	41.1	88	.31	.34	.10

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 12...	.10	.08	.13	.52	.40	.59	.09	.50	.96	1.9	4.3	.080
NOV 14...	.00	.08	.00	.41	.45	.48	.03	.45	.80	.79	3.5	.070
DEC 11...	.00	.08	.00	.29	.20	.36	.16	.20	.84	.73	3.7	.060
JAN 17...	.05	.19	.06	.42	.33	.58	.20	.38	1.1	.91	4.9	.050
FEB 12...	.14	.18	.18	.42	.42	.57	.01	.56	1.4	1.4	6.4	.140
MAR 20...	.16	.25	.21	.41	.37	.62	.09	.53	1.1	1.0	4.7	.060
APR 15...	.04	.00	.05	.25	.32	.25	.00	.36	.60	.70	2.7	.060
MAY 13...	.02	.04	.03	.24	.16	.27	.09	.18	.64	.54	2.8	.060
JUN 13...	.03	.15	.04	.71	.45	.83	.35	.48	1.4	1.1	6.2	.120
JUL 14...	.00	.00	.00	.79	.37	.79	.42	.37	.85	.44	3.8	.190
AUG 13...	.04	.07	.05	.52	.18	.58	.36	.22	.74	.33	3.3	.130
SEP 03...	.02	.12	.03	.63	.33	.73	.38	.35	1.0	.69	4.6	.120

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 12...	.25	.050	1	0	1	0	0	0	0	0	2	30
NOV 14...	.21	.050	--	--	--	--	--	--	--	--	--	--
DEC 11...	.18	.040	--	--	--	--	--	--	--	--	--	--
JAN 17...	.15	.050	0	0	0	100	80	20	3	0	7	10
FEB 12...	.43	.100	--	--	--	--	--	--	--	--	--	--
MAR 20...	.18	.030	--	--	--	--	--	--	--	--	--	--
APR 15...	.18	.110	0	0	0	<50	--	20	0	0	0	20
MAY 13...	.18	.050	--	--	--	--	--	--	--	--	--	--
JUN 13...	.37	.050	--	--	--	--	--	--	--	--	--	--
JUL 14...	.58	.130	2	1	1	100	80	20	0	0	3	<10
AUG 13...	.40	.080	--	--	--	--	--	--	--	--	--	--
SEP 03...	.37	.080	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 12...	20	10	0	0	0	7	0	9	550	70	480	7
NOV 14...	--	--	--	--	--	--	--	5	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	5	--	--	--	--
JAN 17...	0	10	0	0	0	6	2	4	270	140	130	6
FEB 12...	--	--	--	--	--	--	--	8	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	3	--	--	--	--
APR 15...	0	20	0	0	0	4	0	4	370	250	120	5
MAY 13...	--	--	--	--	--	--	--	4	--	--	--	--
JUN 13...	--	--	--	--	--	--	--	5	--	--	--	--
JUL 14...	--	10	0	0	0	7	1	6	650	360	290	3
AUG 13...	--	--	--	--	--	--	--	6	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	3	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

THAMES RIVER BASIN

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01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDE RECov- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECov- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECov- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECov- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECov- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	MERCURY TOTAL RECov- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECov- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT 12...	0	7	30	0	30	1	0	4	.5	.4	.1	0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	4	2	30	10	20	3	0	3	.2	.1	<.1	0
FEB 12...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--
APR 15...	4	1	40	10	30	0	0	0	.1	.0	.1	0
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	1	2	100	80	20	4	4	0	<.1	--	<.1	0
AUG 13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECov- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECov- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECov- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECov- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 12...	0	0	0	0	2	30	0	30	--	6.8	--	.00
NOV 14...	--	--	--	--	--	--	--	3	6.1	--	--	--
DEC 11...	--	--	0	--	--	--	--	20	4.2	--	--	--
JAN 17...	0	0	0	0	0	20	0	20	5.8	5.4	.4	.00
FEB 12...	--	--	--	--	--	--	--	30	4.3	--	--	--
MAR 20...	--	--	0	--	--	--	--	10	4.3	--	--	--
APR 15...	0	0	0	0	0	10	5	5	4.1	3.5	.6	.10
MAY 13...	--	--	--	--	--	--	--	0	4.6	--	--	--
JUN 13...	--	--	1	--	--	--	--	0	3.3	--	--	--
JUL 14...	0	0	0	0	0	10	1	9	15	12	3.0	.00
AUG 13...	--	--	--	--	--	--	--	0	6.7	--	--	--
SEP 03...	--	--	0	--	--	--	--	10	6.1	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	--	.000	.000
NOV 14...	820	--	--
JAN 17...	--	.670	.000
MAR 20...	3500	--	--
APR 15...	--	4.46	.000
MAY 13...	1100	--	--
JUN 13...	65000	--	--
JUL 14...	380000	52.3	.000
AUG 13...	140000	--	--
SEP 03...	72000	--	--

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 12...	1115	1530	4	17	100	APR 15...	1020	4480	18	218	100
NOV 14...	1040	2700	6	44	90	MAY 13...	1045	1620	15	66	100
DEC 11...	1520	1190	5	16	75	JUN 13...	1025	700	10	19	100
JAN 17...	1030	1290	9	31	68	JUL 14...	1045	276	9	6.7	100
FEB 12...	1100	406	5	5.5	72	AUG 13...	1000	454	16	20	20
MAR 20...	1100	4430	9	108	78	SEP 03...	1115	195	9	4.7	64

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO OCTOBER 1980

PERIPHYTON

(sampling method - Polyethylene Strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQM)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQM)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	BIOMASS CHLOROPHYLL RATIO PERI- PHYTON (UNITS)
January 17 to February 12	27	1.18	0.950	3.95	0.320	58.2

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	NOV 14.79 1040	MAR 20.80 1100	MAY 13.80 1045	JUN 13.80 1025
TOTAL CELLS/ML	820	3500	1100	65000
DIVERSITY: DIVISION	0.9	0.9	1.4	0.4
..CLASS	0.9	1.0	1.4	0.4
..ORDER	0.9	1.1	2.5	0.4
...FAMILY	1.1	1.6	3.3	0.4
....GENUS	2.0	1.6	3.4	0.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
....COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
....MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	230#	22	--	-
....OOCYSTACEAE								
....ANKISTRODESMUS	14	2	--	-	28	3	--	-
....CHODATELLA	14	2	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	69	6	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	43	5	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMACEAE								
....SCENEDESMUS	57	7	52	1	--	-	4300	7
....TETRASTRUM	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	55	5	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	96	9	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIVUM	--	-	--	-	14	1	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
....CYCLOTELLA	--	-	77	2	210#	19	2200	3
....MELOSTRA	--	-	77	2	--	-	59000#	90
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	29	4	65	2	69	6	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	14	1	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	120	3	--	-	--	-
....SYNEDRA	14	2	*	0	69	6	--	-
...NAVICULACEAE								
....NAVICULA	--	-	190	6	28	3	--	-
...NITZSCHACEAE								
....NITZSCHIA	--	-	150	4	110	10	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	*	0	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	--	-	77	2	--	-	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
....OCHROMONADACEAE								
....DINOBYRON	--	-	52	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-
....COCCOCHLORIS	--	-	--	-	41	4	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	290#	35	--	-	--	-	--	-
....OSCILLATORIA	360#	44	2600#	74	--	-	--	-
...PHORMIDIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	NOV 14,79 1040		MAR 20,80 1100		MAY 13,80 1045		JUN 13,80 1025	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	14	1	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	14	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	JUL 14,80 1045	AUG 13,80 1000	SEP 3,80 1115
TOTAL CELLS/ML	380000	140000	72000
DIVERSITY: DIVISION	0.3	0.2	0.5
...CLASS	0.3	0.2	0.5
...ORDER	0.9	0.7	1.4
...FAMILY	0.9	0.7	1.7
...GENUS	0.9	0.7	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA	--	-	--	-	*	0
...COELASTRACEAE						
...COELASTRUM	--	-	*	0	--	-
...MICRACTINIACEAE						
...MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS	--	-	*	0	--	-
...CHODATELLA	--	-	--	-	--	-
...DICTYOSPHAERIUM					2800	4
...KIRCHNERIELLA	3000	1	--	-	--	-
...OOCYSTIS	--	-	--	-	500	1
...SELENASTRUM	--	-	--	-	500	1
...SCENEDESMACEAE						
...SCENEDESMUS	12000	3	1900	1	1000	1
...TETRASTRUM	--	-	--	-	500	1
...TETRASPORALES						
...COCCOMYXACEAE						
...ELAKATOTHRIX	--	-	--	-	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	--	-	--	-	*	0
...ZYGNEATALES						
...DESMIDIACEAE						
...COSMARIVUM	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCAEAE						
...CYCLOTELLA	--	-	--	-	500	1
...MELOSIRA	3000	1	--	-	--	-
...PENNALES						
...ACHNANTHACEAE						
...ACHNANTHES	--	-	*	0	--	-
...CYMBELLACEAE						
...CYMBELLA	--	-	--	-	--	-
...FRAGILARIACEAE						
...FRAGILARIA	--	-	--	-	--	-
...SYNEDRA	--	-	--	-	*	0
...NAVICULACEAE						
...NAVICULA	--	-	--	-	380	1
...NITZSCHIAEAE						
...NITZSCHIA	--	-	*	0	500	1
...SURIRELLACEAE						
...SURIRELLA	--	-	--	-	--	-
...TABELLARIACEAE						
...TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...OCHROMONADACEAE						
...DINOBYRON	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...AGMENELLUM	--	-	--	-	4000	6
...ANACYSTIS	310000#	82	120000#	86	41000#	57
...COCCOCHLORIS	--	-	--	-	--	-
...HORMOGONALES						
...NOSTOCACEAE						
...ANABAENA	--	-	--	-	6300	9
...APHANIZOMENON	--	-	--	-	2300	3
...OSCILLATORIAEAE						
...LYNGBYA	--	-	--	-	--	-
...OSCILLATORIA	51000	13	17000	12	--	-
...PHORMIDIUM	--	-	--	-	11000	15

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	JUL 14,80 1045		AUG 13,80 1000		SEP 3,80 1115	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...GYMNODINIALES						
....GYMNODINIACEAE						
.....GYMNODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	95	93	94	---	---	---	93	88	91
2	---	---	---	97	94	95	---	---	---	92	91	92
3	---	---	---	95	87	90	---	---	---	93	92	92
4	---	---	---	90	71	80	---	---	---	94	92	94
5	---	---	---	75	73	74	---	---	---	96	94	95
6	---	---	---	74	72	73	---	---	---	99	96	97
7	---	---	---	76	74	75	---	---	---	99	82	94
8	---	---	---	78	76	77	---	---	---	101	94	99
9	---	---	---	79	78	79	---	---	---	102	101	101
10	---	---	---	80	79	80	---	---	---	103	91	100
11	---	---	---	81	79	80	---	---	---	103	78	95
12	92	90	91	83	80	82	91	89	90	101	79	92
13	89	85	87	82	78	80	91	76	87	100	93	96
14	88	86	87	80	75	76	95	82	92	93	86	89
15	88	87	87	76	75	76	94	86	91	89	87	88
16	87	86	86	77	75	76	89	76	85	91	89	90
17	86	84	85	78	76	77	97	75	89	92	91	91
18	87	85	86	80	74	78	96	94	95	93	92	92
19	88	86	87	81	77	79	96	95	96	97	80	89
20	90	88	89	81	79	80	97	96	97	96	94	95
21	93	90	91	84	80	82	98	97	98	97	96	96
22	96	91	93	85	83	84	99	98	98	97	91	95
23	97	92	94	87	82	86	98	94	97	113	95	108
24	95	92	93	90	84	88	95	80	91	108	95	103
25	93	92	92	94	70	89	95	86	91	101	100	101
26	92	90	91	---	---	---	105	77	91	102	99	100
27	92	87	90	---	---	---	104	96	98	103	102	102
28	92	90	91	---	---	---	97	92	94	106	103	104
29	93	90	91	---	---	---	92	91	91	109	106	107
30	95	93	94	---	---	---	92	91	91	111	110	111
31	95	93	94	---	---	---	93	91	92	115	112	113
MONTH	97	84	90	97	70	81	105	75	93	115	78	97

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	117	115	116	117	112	115	69	69	69	---	---	---
2	118	117	118	113	108	111	71	69	70	---	---	---
3	119	117	118	110	107	109	70	69	69	---	---	---
4	120	117	119	109	105	107	73	69	71	---	---	---
5	124	120	122	106	104	105	72	66	68	---	---	---
6	125	123	124	111	102	105	67	66	66	---	---	---
7	126	124	125	111	103	104	69	66	68	---	---	---
8	126	123	125	103	100	101	69	67	69	---	---	---
9	127	125	126	111	99	102	73	69	71	---	---	---
10	130	127	129	123	106	115	73	62	71	---	---	---
11	130	128	129	112	91	99	62	56	60	---	---	---
12	135	127	130	115	85	104	63	59	61	---	---	---
13	140	132	135	---	---	---	66	58	64	94	76	90
14	136	132	135	---	---	---	68	55	66	91	81	85
15	133	131	132	---	---	---	---	---	---	84	78	80
16	134	130	131	---	---	---	---	---	---	82	78	80
17	137	130	133	---	---	---	---	---	---	91	79	83
18	137	126	131	---	---	---	---	---	---	90	79	85
19	130	126	127	---	---	---	---	---	---	89	79	84
20	126	124	125	76	73	75	---	---	---	84	77	80
21	124	122	122	80	57	67	---	---	---	85	78	82
22	121	119	120	67	44	55	---	---	---	80	75	78
23	120	117	119	45	42	44	---	---	---	83	75	78
24	117	116	117	53	45	48	---	---	---	90	80	85
25	115	113	115	58	51	53	---	---	---	91	82	87
26	120	113	116	61	54	56	---	---	---	95	87	91
27	121	118	120	64	62	63	---	---	---	95	87	91
28	119	116	118	65	64	65	---	---	---	90	85	88
29	118	114	117	68	66	67	---	---	---	88	80	85
30	---	---	---	68	67	68	---	---	---	91	83	86
31	---	---	---	70	68	69	---	---	---	95	86	89
MONTH	140	113	124	123	42	84	73	55	67	95	75	85

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	95	90	92	106	103	104						
2	98	78	93	105	101	103						
3	105	93	97	102	99	101						
4	104	99	102	117	98	101						
5	98	96	97	109	80	101						
6	97	95	96	93	87	90						
7	95	82	87	113	92	99						
8	96	82	89	112	105	110						
9	102	80	88	106	101	104						
10	101	88	94	107	101	104						
11	100	87	91	109	102	107						
12	104	88	94	109	101	105						
13	90	77	82	110	100	104						
14	81	78	79	115	100	107						
15	85	78	81	117	106	109						
16	84	79	81	123	105	111						
17	92	82	85	125	108	115						
18	96	86	90	120	108	112						
19	96	90	93	127	106	115						
20	93	86	90	122	113	118						
21	94	87	90	---	---	---						
22	101	90	95	---	---	---						
23	105	95	99	---	---	---						
24	102	92	95	---	---	---						
25	98	91	95	---	---	---						
26	100	94	97	---	---	---						
27	102	95	99	---	---	---						
28	108	100	104	---	---	---						
29	108	100	103	---	---	---						
30	105	99	101	---	---	---						
31	---	---	---	---	---	---						
MONTH	108	77	93	127	80	106						

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

THAMES RIVER BASIN

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01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.0	1.0	1.5	3.5	.0	1.0	7.0	6.0	6.5	12.5	12.0	12.5
2	3.0	1.0	1.5	3.5	.5	1.5	7.0	6.5	7.0	13.0	12.0	12.5
3	3.0	1.0	1.5	4.0	.5	1.5	8.0	6.5	7.0	14.5	12.0	13.5
4	3.0	1.0	1.5	4.5	.5	2.0	8.0	8.0	8.0	15.5	13.0	15.0
5	3.5	1.0	2.0	2.5	1.5	2.0	8.0	7.5	8.0	17.5	14.0	15.5
6	3.0	1.0	2.0	4.0	1.5	2.5	9.0	7.5	8.0	19.0	16.5	17.5
7	2.0	2.0	2.0	4.5	1.5	2.5	10.0	8.5	9.5	19.5	16.5	17.5
8	3.5	1.0	2.0	3.5	2.5	3.0	10.0	9.5	10.0	17.5	16.5	17.5
9	4.0	1.5	2.0	4.5	2.5	3.5	10.5	9.5	10.0	16.5	14.5	15.0
10	4.0	1.5	2.5	5.0	3.0	3.5	10.5	10.0	10.5	15.5	14.5	14.5
11	3.5	1.5	2.0	4.0	3.0	3.5	12.0	10.0	11.0	15.5	14.0	14.5
12	3.5	2.0	2.5	3.0	1.5	2.0	12.0	12.0	12.0	15.5	14.0	14.5
13	4.5	1.5	2.5	---	---	---	13.0	11.5	12.5	16.5	15.0	16.0
14	4.5	1.5	2.5	---	---	---	13.0	11.5	12.5	18.0	16.5	17.0
15	4.5	1.5	2.5	---	---	---	13.0	12.0	12.5	18.0	16.5	17.5
16	2.5	1.5	2.0	---	---	---	13.0	12.0	12.5	18.5	16.5	17.5
17	3.5	1.0	2.0	---	---	---	11.5	11.0	11.5	19.5	16.5	17.5
18	4.0	.5	2.0	---	---	---	11.5	10.5	11.0	18.0	17.5	18.0
19	4.5	.5	2.0	---	---	---	12.0	11.0	11.5	18.5	17.5	17.5
20	4.5	.5	2.0	5.0	4.5	5.0	13.0	11.5	12.0	20.5	18.0	19.0
21	4.0	1.0	2.0	5.5	5.0	5.0	14.0	12.5	13.0	19.0	18.0	18.5
22	2.0	1.5	1.5	5.5	3.0	4.0	14.5	11.0	12.5	18.5	17.5	18.0
23	4.0	2.0	2.5	4.5	3.0	3.5	13.0	10.0	11.5	20.5	18.0	19.5
24	3.0	2.0	2.0	5.5	4.5	5.0	12.5	9.5	10.5	22.0	20.0	21.0
25	3.5	1.5	2.5	5.5	5.0	5.0	14.5	9.5	12.0	22.5	20.5	21.5
26	4.0	1.5	2.5	5.0	4.5	5.0	15.0	11.0	13.5	22.0	20.0	21.0
27	3.0	1.5	2.0	5.5	5.0	5.5	14.5	12.5	14.0	22.0	19.5	20.5
28	3.5	1.0	2.0	6.0	5.5	6.0	14.0	10.5	12.5	22.0	19.0	20.5
29	3.0	.0	1.0	7.0	6.0	6.5	12.0	9.0	9.5	22.0	18.5	20.0
30	---	---	---	7.5	7.0	7.0	12.0	8.0	10.0	21.0	18.5	19.5
31	---	---	---	7.0	6.0	6.5	---	---	---	21.0	19.5	20.0
MONTH	4.5	.0	2.0	7.5	.0	4.0	15.0	6.0	11.0	22.5	12.0	17.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	23.0	20.0	21.0	24.0	21.5	22.5						
2	22.5	21.0	21.5	22.0	21.5	22.0						
3	23.0	22.0	22.5	22.5	21.5	22.0						
4	23.0	21.5	22.5	26.0	21.5	23.5						
5	22.5	21.0	21.5	24.5	22.0	23.0						
6	22.5	20.5	21.0	25.0	22.5	23.5						
7	21.0	20.0	20.5	25.5	22.0	23.5						
8	20.0	18.0	19.5	23.5	22.0	22.5						
9	18.0	17.5	17.5	24.5	21.0	22.5						
10	17.5	17.0	17.0	25.0	22.0	23.0						
11	17.5	16.5	17.0	25.5	22.5	23.5						
12	19.5	16.5	18.0	26.5	23.5	24.5						
13	19.5	17.0	18.0	26.5	23.0	24.5						
14	21.0	17.0	19.0	27.5	23.0	24.5						
15	21.0	18.5	19.5	26.0	22.5	23.5						
16	23.0	19.5	21.0	27.0	23.5	25.0						
17	24.5	20.5	21.5	27.0	24.5	25.0						
18	22.0	20.0	21.0	29.0	24.0	26.0						
19	23.5	20.0	21.0	27.0	24.5	25.5						
20	21.0	19.5	20.5	28.0	24.5	25.5						
21	22.5	19.0	20.5	---	---	---						
22	22.5	19.0	20.5	---	---	---						
23	25.5	19.5	22.0	---	---	---						
24	24.5	21.0	22.0	---	---	---						
25	26.5	22.0	23.5	---	---	---						
26	26.0	23.0	24.0	---	---	---						
27	27.0	24.0	25.5	---	---	---						
28	27.0	24.0	25.0	---	---	---						
29	24.5	23.5	24.0	---	---	---						
30	24.0	23.0	23.5	---	---	---						
31	---	---	---	---	---	---						
MONTH	27.0	16.5	21.0	29.0	21.0	24.0						

THAMES RIVER BASIN

01127500 YANTIC RIVER AT YANTIC, CT

LOCATION.--Lat 41°33'31", long 72°07'19", New London County, Hydrologic Unit 01100003, on left bank at Yantic, 700 ft (213 m) downstream from stone-arch highway bridge, 1 mi (2 km) downstream from Susquetonscut Brook, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--90.0 mi² (233.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: October 1930 to current year.

REVISED RECORDS.--WSP 781: Drainage area. WSP 1051: 1931-36. WSP 1301: 1934(M). WDR CT-78-1: 1970-77 (P).

GAGE.--Water-stage recorder. Datum of gage is 94.46 ft (28.791 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Low flow regulated by mills upstream.

AVERAGE DISCHARGE.--50 years, 163 ft³/s (4.616 m³/s), 24.60 in/yr (625 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s (382 m³/s) Sept. 21, 1938, gage height, 14.66 ft (4.468 m), from floodmark, by computation of flow over two dams 2.4 mi (4.0 km) upstream and 3.0 mi (4.8 km) downstream from station, respectively; minimum, 2.2 ft³/s (0.062 m³/s) Aug. 30, 1963; minimum gage height, 0.41 ft (0.123 m) Oct. 13, 1930; minimum daily discharge, 2.3 ft³/s (0.065 m³/s) Aug. 30, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

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)
Nov. 3	1800	1040 29.5	5.47 1.667	Apr. 4	1800	1020 28.9	5.43 1.655
Mar. 18	0900	1810 51.3	7.10 2.164	10	0900	2500 70.8	8.21 2.502
22	1000	*5200 147	*11.56 3.523	29	0830	1070 30.3	5.55 1.690

Minimum discharge, 4.2 ft³/s (0.119 m³/s) Sept. 29, gage height, 0.81 ft (0.247 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	50	123	110	74	42	559	363	50	34	72	5.7
2	71	48	115	102	70	34	481	267	59	29	43	6.9
3	91	649	106	96	68	35	415	224	64	30	57	11
4	156	664	105	88	63	34	674	186	62	28	55	10
5	108	335	102	87	58	30	864	158	43	24	36	9.3
6	124	207	105	88	57	34	566	146	41	43	27	8.4
7	116	153	191	97	54	36	371	136	100	39	24	8.1
8	80	130	167	95	53	52	269	290	150	25	19	7.5
9	65	119	129	88	51	92	261	366	102	17	16	7.5
10	112	133	115	80	50	90	1860	243	85	15	14	8.1
11	163	152	111	80	49	175	1210	180	67	14	13	6.9
12	163	412	111	435	47	139	646	177	54	12	20	6.6
13	183	335	152	273	46	89	435	186	43	11	14	6.6
14	139	273	224	197	46	112	355	165	42	9.6	13	7.2
15	100	211	165	173	45	126	441	135	38	8.7	13	6.9
16	78	165	142	163	54	97	393	115	34	7.8	11	6.9
17	66	144	152	144	71	118	288	95	30	7.2	9.3	6.9
18	61	130	114	135	65	1220	239	96	28	6.1	8.4	17
19	55	123	92	138	62	725	213	111	25	6.1	10	11
20	51	118	91	135	67	382	193	101	25	6.6	10	9.3
21	49	112	86	110	85	689	175	133	24	8.4	9.6	8.1
22	48	108	96	115	95	4410	155	197	22	16	9.3	7.5
23	49	108	106	149	88	2050	144	132	18	14	9.0	6.9
24	68	108	122	129	83	1020	139	96	16	13	8.4	6.9
25	83	107	284	110	79	824	138	81	14	11	10	6.9
26	65	142	345	94	62	828	139	66	13	8.7	6.9	7.5
27	54	295	233	86	60	646	144	54	11	7.8	5.9	6.9
28	51	227	167	86	57	522	304	47	10	6.4	5.7	6.6
29	62	170	141	82	50	432	885	43	12	249	5.2	6.6
30	62	136	132	81	---	475	632	39	31	522	5.2	6.4
31	52	---	118	78	---	500	---	39	---	193	5.7	---
TOTAL	2668	6064	4442	3924	1809	16058	13588	4667	1313	1422.4	565.6	238.1
MEAN	86.1	202	143	127	62.4	518	453	151	43.8	45.9	18.2	7.94
MAX	183	664	345	435	95	4410	1860	366	150	522	72	17
MIN	43	48	86	78	45	30	138	39	10	6.1	5.2	5.7
CFSM	.96	2.24	1.59	1.41	.69	5.76	5.03	1.68	.49	.51	.20	.09
IN.	1.10	2.51	1.84	1.62	.75	6.64	5.62	1.93	.54	.59	.23	.10

CAL YR 1979	TOTAL	87884.7	MEAN	241	MAX	4890	MIN	7.7	CFSM	2.68	IN	36.33
WTR YR 1980	TOTAL	56759.1	MEAN	155	MAX	4410	MIN	5.2	CFSM	1.72	IN	23.46

THAMES RIVER BASIN

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01127500 YANTIC RIVER AT YANTIC, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1968 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1980 (discontinued).

REMARKS.--Records good during periods of low and normal flows, fair during high flows. Data estimated during periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 168 mg/L March 22, 1980, minimum daily mean, 0 mg/L Oct. 22, 27, 31, 1976.

SEDIMENT LOADS: Maximum daily, 2060 tons (1868 Mg) March 22, 1980; minimum daily, 0 ton (0 Mg) Oct. 22, 27, 31, 1976.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 168 mg/L Mar. 22; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 2060 tons (1868 Mg) Mar. 22; minimum daily, .01 ton (.01 Mg) Aug. 29-30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
15...	1545	92	97	7.1	12.5	9.5	45	2.0	11.4	99	4200	--
NOV												
16...	1000	179	92	6.2	5.5	6.0	30	1.0	12.5	100	1500	--
DEC												
10...	1100	115	93	5.8	7.0	2.0	20	1.0	14.1	101	2400	--
JAN												
16...	1500	163	97	6.7	6.5	3.0	10	2.0	13.3	98	600	120
FEB												
12...	0935	46	104	6.3	2.0	.5	5	1.0	15.0	104	720	K16
MAR												
19...	1500	674	74	7.1	12.0	3.0	20	1.0	13.5	100	160	96
APR												
14...	1415	361	75	6.6	9.0	11.0	10	1.0	11.1	100	2700	300
MAY												
14...	1450	160	74	6.9	23.0	18.0	18	2.0	9.9	104	14000	280
JUN												
11...	1020	65	93	6.7	16.5	15.0	30	1.0	9.8	96	6000	170
JUL												
15...	0930	8.8	123	7.1	27.5	22.0	11	1.0	9.5	108	40000	720
AUG												
14...	1415	12	130	8.3	23.0	23.0	10	2.0	10.8	124	26000	640
SEP												
02...	1400	6.5	156	8.2	32.5	27.0	4	1.0	10.6	131	3800	200

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
15...	2000	72	29	10	8.5	1.8	19	13	12	9.9	75	.10
NOV												
16...	120	240	--	--	--	--	--	--	9.8	--	68	.09
DEC												
10...	110	42	--	--	--	--	--	--	9.9	--	64	.09
JAN												
16...	--	3100	25	0	7.1	1.8	31	14	15	7.9	69	.09
FEB												
12...	--	K15	--	--	--	--	--	--	11	--	59	.08
MAR												
19...	--	540	--	--	--	--	--	--	7.0	--	56	.08
APR												
14...	--	240	19	0	5.6	1.2	21	9.9	7.4	5.4	48	.07
MAY												
14...	--	33	--	--	--	--	--	--	8.7	--	61	.08
JUN												
11...	--	88	--	--	--	--	--	--	8.9	--	73	.10
JUL												
15...	--	140	32	11	10	1.8	21	9.7	16	3.6	82	.11
AUG												
14...	--	110	--	--	--	--	--	--	12	--	70	.10
SEP												
02...	--	48	--	--	--	--	--	--	16	--	82	.11

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01127500 YANTIC RIVER AT YANTIC, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (YONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
15...	18.6	73	--	--	.33	.05	.06	.25	.30	.63	2.8
NOV											
16...	32.9	67	.47	.00	.47	.05	.06	.30	.35	.82	3.6
DEC											
10...	19.9	68	.78	.01	.79	.05	.06	.13	.18	.97	4.3
JAN											
16...	30.4	69	--	--	.79	.51	.62	.47	.98	1.8	7.8
FEB											
12...	7.33	65	.47	.01	.48	.00	.00	.39	.39	.87	3.9
MAR											
19...	102	48	.76	.01	.77	.20	.24	.47	.67	1.4	6.4
APR											
14...	46.8	80	--	--	.61	.05	.06	.10	.15	.76	3.4
MAY											
14...	26.4	64	.46	.01	.47	.04	.05	.32	.36	.83	3.7
JUN											
11...	12.8	108	.59	.00	.59	.06	.07	.29	.35	.94	4.2
JUL											
15...	1.95	77	--	--	.50	.00	.00	.20	.20	.70	3.1
AUG											
14...	2.27	70	.26	.00	.26	.10	.12	.00	.09	.35	1.6
SEP											
02...	1.44	92	.47	.00	.47	.02	.02	.28	.30	.77	3.4

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
15...	.020	.06	2	190	10	2	6.8	.00	.000	.000
NOV										
16...	.020	.06	3	--	--	20	4.7	--	--	--
DEC										
10...	.020	.06	2	--	--	0	3.8	--	--	--
JAN										
16...	.180	.55	2	80	20	40	4.6	.00	4.49	.000
FEB										
12...	.020	.06	5	--	--	10	1.7	--	--	--
MAR										
19...	.020	.06	2	--	--	10	6.4	--	--	--
APR										
14...	.010	.03	1	80	30	0	4.8	.00	2.74	.000
MAY										
14...	.020	.06	2	--	--	0	6.0	--	--	--
JUN										
11...	.030	.09	1	--	--	10	4.1	--	--	--
JUL										
15...	.000	.00	3	200	30	5	5.4	.00	.620	.000
AUG										
14...	.030	.09	3	--	--	0	5.7	--	--	--
SEP										
02...	.030	.09	4	--	--	10	3.8	--	--	--

01127500 YANTIC RIVER AT YANTIC, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	43	7	.81	50	3	.41	123	3	1.0
2	71	7	1.3	48	6	.78	115	3	.93
3	91	12	3.6	649	32	62	106	3	.86
4	156	9	3.9	664	7	13	105	1	.28
5	108	5	1.5	335	3	2.7	102	1	.28
6	124	4	1.3	207	1	.56	105	2	.57
7	116	3	.94	153	1	.41	191	12	6.4
8	80	3	.65	130	2	.70	167	2	.90
9	65	3	.53	119	1	.32	129	1	.35
10	112	7	2.3	133	1	.36	115	1	.31
11	163	5	2.2	152	6	3.5	111	1	.30
12	163	2	.88	412	8	7.9	111	1	.30
13	183	2	.99	335	2	1.8	152	6	2.9
14	139	6	2.3	273	1	.74	224	4	2.8
15	100	5	1.4	211	1	.57	165	1	.45
16	78	7	1.5	165	2	.89	142	1	.38
17	66	5	.89	144	1	.39	152	1	.41
18	61	7	1.2	130	2	.70	114	2	.62
19	55	5	.74	123	1	.33	92	2	.50
20	51	4	.55	118	1	.32	91	4	.98
21	49	4	.53	112	4	1.2	86	3	.70
22	48	2	.26	108	1	.29	96	3	.78
23	49	1	.13	108	4	1.2	106	3	.86
24	68	3	.55	108	2	.58	122	4	1.3
25	83	2	.45	107	1	.29	284	24	22
26	65	1	.18	142	6	3.0	345	5	4.7
27	54	1	.15	295	6	5.0	233	4	2.5
28	51	1	.14	227	4	2.5	167	5	2.3
29	62	1	.17	170	3	1.4	141	2	.76
30	62	1	.17	136	4	1.5	132	1	.36
31	52	2	.28	---	---	---	118	2	.64
TOTAL	2668	---	32.49	6064	---	115.34	4442	---	58.42
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	110	2	.59	74	3	.60	42	2	.23
2	102	3	.83	70	3	.57	34	1	.09
3	96	5	1.3	68	3	.55	35	3	.28
4	88	3	.71	63	3	.51	34	1	.09
5	87	3	.70	58	3	.47	30	1	.08
6	88	5	1.2	57	3	.46	34	2	.18
7	97	3	.79	54	4	.58	36	3	.29
8	95	3	.77	53	5	.72	52	2	.28
9	88	1	.24	51	5	.69	92	2	.50
10	80	3	.65	50	4	.54	90	3	.73
11	80	4	.86	49	5	.66	175	9	4.5
12	435	11	13	47	5	.63	139	5	1.9
13	273	5	3.9	46	5	.62	89	2	.48
14	197	1	.53	46	3	.37	112	9	3.3
15	173	1	.47	45	4	.49	126	20	6.8
16	163	1	.44	54	2	.29	97	3	.79
17	144	1	.39	71	4	.77	118	8	3.2
18	135	1	.36	65	3	.53	1220	96	328
19	138	2	.75	62	4	.67	725	9	19
20	135	1	.36	67	4	.72	382	5	5.1
21	110	1	.30	85	8	1.8	689	17	75
22	115	1	.31	95	7	1.8	4410	168	2060
23	149	1	.40	88	8	1.9	2050	32	193
24	129	3	1.0	83	1	.22	1020	9	26
25	110	2	.59	79	1	.21	824	7	14
26	94	1	.25	62	1	.17	828	3	6.7
27	86	2	.46	60	3	.49	646	1	1.7
28	86	2	.46	57	1	.15	522	2	2.8
29	82	3	.66	50	4	.54	432	2	2.3
30	81	3	.66	---	---	---	475	3	3.8
31	78	3	.63	---	---	---	500	5	6.8
TOTAL	3924	---	34.56	1809	---	18.72	16058	---	2767.92

01127500 YANTIC RIVER AT YANTIC, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL									
1	559	6	9.1	363	6	5.9	50	2	.27
2	481	5	6.5	267	5	3.6	59	4	.64
3	415	5	5.6	224	4	2.4	64	4	.69
4	674	12	29	186	3	1.5	62	3	.50
5	864	8	19	158	3	1.3	43	3	.35
6	566	3	4.6	146	3	1.2	41	2	.22
7	371	3	3.0	136	4	1.5	100	7	2.4
8	269	2	1.5	290	6	3.9	150	4	1.6
9	261	6	4.3	366	6	5.9	102	3	.83
10	1860	42	219	243	4	2.6	85	3	.69
11	1210	10	33	180	4	1.9	67	3	.54
12	646	5	8.7	177	5	2.4	54	2	.29
13	435	6	7.0	186	4	2.0	43	2	.23
14	355	4	3.8	165	6	2.7	42	2	.23
15	441	9	11	135	9	3.3	38	1	.10
16	393	10	11	115	4	1.2	34	2	.18
17	288	8	6.2	95	6	1.5	30	2	.16
18	239	4	2.6	96	10	2.6	28	2	.15
19	213	8	4.6	111	5	1.5	25	2	.14
20	193	5	2.6	101	4	1.1	25	2	.14
21	175	5	2.4	133	7	3.2	24	2	.13
22	155	5	2.1	197	8	4.3	22	2	.12
23	144	3	1.2	132	4	1.4	18	2	.10
24	139	2	.75	96	5	1.3	16	2	.09
25	138	3	1.1	81	3	.66	14	2	.08
26	139	4	1.5	66	3	.53	13	2	.07
27	144	6	2.3	54	2	.29	11	2	.06
28	304	13	11	47	2	.25	10	2	.05
29	885	14	33	43	2	.23	12	3	.10
30	632	7	12	39	2	.21	31	6	.50
31	---	---	---	39	2	.21	---	---	---
TOTAL	13588	---	459.45	4667	---	62.58	1313	---	11.65
MAY									
JUNE									
JULY									
1	34	3	.28	72	4	.78	5.7	4	.06
2	29	3	.23	43	3	.35	6.9	5	.09
3	30	3	.24	57	2	.31	11	3	.09
4	28	3	.23	55	2	.30	10	2	.05
5	24	3	.19	36	1	.10	9.3	2	.05
6	43	5	.58	27	1	.07	8.4	2	.05
7	39	3	.32	24	1	.06	8.1	2	.04
8	25	2	.14	19	1	.05	7.5	2	.04
9	17	3	.14	16	1	.04	7.5	2	.04
10	15	3	.12	14	1	.04	8.1	1	.02
11	14	3	.11	13	1	.04	6.9	2	.04
12	12	3	.10	20	1	.05	6.6	3	.05
13	11	3	.09	14	1	.04	6.6	3	.05
14	9.6	2	.05	13	1	.04	7.2	2	.04
15	8.7	3	.07	13	1	.04	6.9	1	.02
16	7.8	3	.06	11	1	.03	6.9	2	.04
17	7.2	3	.06	9.3	1	.03	6.9	3	.06
18	6.1	3	.05	8.4	1	.02	17	7	.32
19	6.1	3	.05	10	1	.03	11	4	.12
20	6.6	6	.11	10	1	.03	9.3	4	.10
21	8.4	5	.11	9.6	1	.03	8.1	2	.04
22	16	9	.39	9.3	1	.03	7.5	1	.02
23	14	5	.19	9.0	3	.07	6.9	2	.04
24	13	3	.11	8.4	2	.05	6.9	3	.06
25	11	3	.09	10	3	.08	6.9	1	.02
26	8.7	3	.07	6.9	5	.09	7.5	1	.02
27	7.8	2	.04	5.9	2	.03	6.9	1	.02
28	6.4	2	.03	5.7	1	.02	6.6	1	.02
29	249	16	27	5.2	1	.01	6.6	1	.02
30	522	14	20	5.2	1	.01	6.4	1	.02
31	193	7	3.6	5.7	1	.02	---	---	---
TOTAL	1422.4	---	54.85	565.6	---	2.89	238.1	---	1.65
YEAR	56759.1		3620.52						

01127701 THAMES RIVER NEAR MOHEGAN, CT

LOCATION.--Lat 41°28'54", long 72°04'32", New London County, Hydrologic Unit 01100003, at bridge on State Highway 2A, 1.3 mi (2.1 km) east of Mohegan, 2.9 mi (4.7 km) downstream from Norwich, 0.9 mi (1.4 km) upstream from Poquetanuck Cove, and 1.2 mi (1.9 km) downstream from Trading Cove.

DRAINAGE AREA.--1,382 mi² (3,579 km²).

PERIOD OF RECORD.--Water years 1963, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	SALIN- ITY (PPT)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	
OCT													
15...	1330	1.0	9000	7.2	5.0	13.5	10.5	50	2.0	10.0	89	11000	
15...	1350	25	48000	7.7	32.0	13.5	15.5	10	9.0	5.3	53	3200	
NOV													
15...	1235	1.0	5800	6.7	3.0	8.0	8.0	30	1.0	11.1	93	19000	
15...	1240	25	42600	7.6	27.0	8.0	12.0	5	10	6.9	64	2200	
DEC													
11...	1320	1.0	6700	6.7	4.0	13.5	4.0	20	2.0	15.0	114	3200	
11...	1325	25	46000	7.8	30.0	13.5	8.0	5	3.0	7.6	64	96	
JAN													
16...	1305	1.0	21000	6.6	13.0	9.0	3.0	10	1.0	12.4	92	10000	
16...	1310	25	49000	7.5	33.0	9.0	5.0	5	1.0	9.2	72	4400	
FEB													
14...	1055	1.0	9500	6.8	5.0	10.0	1.0	5	1.0	13.8	96	18000	
14...	1105	25	47000	7.6	31.0	10.0	3.0	5	1.0	11.6	86	200	
MAR													
19...	1000	1.0	500	7.0	.0	7.5	4.0	30	5.0	13.2	100	1100	
19...	1010	25	22000	6.6	24.0	7.5	3.0	10	7.0	9.6	71	1500	
APR													
17...	1020	1.0	2100	7.1	1.0	10.5	10.0	10	2.0	10.9	96	4400	
17...	1030	20	38000	7.8	24.0	10.5	6.5	10	2.0	9.0	73	5700	
MAY													
14...	1300	1.0	3100	6.8	2.0	23.0	17.0	10	2.0	9.3	95	6500	
14...	1310	25	40000	7.6	26.0	23.0	10.0	2	10	6.6	58	4000	
JUN													
12...	1330	1.0	3900	7.3	2.0	21.0	18.5	20	2.0	10.9	116	16000	
12...	1340	25	41000	7.5	27.0	21.0	14.5	10	6.0	4.0	39	1300	
JUL													
10...	1030	1.0	5200	7.3	3.0	24.0	23.0	12	1.0	8.5	98	19000	
10...	1035	25	42500	7.5	28.0	24.0	17.0	4	1.0	2.4	25	400	
AUG													
14...	1010	1.0	7600	7.4	4.0	24.0	24.5	18	3.0	7.0	83	110000	
14...	1015	25	44400	7.1	29.0	24.0	20.0	5	6.0	1.5	16	2200	
SEP													
02...	1530	1.0	20000	8.5	12.0	28.5	27.5	5	2.0	12.7	159	380	
02...	1540	25	43000	7.2	28.0	28.5	21.0	0	20	3.4	38	200	
DATE		COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT													
15...	--	2300	80	690	670	45	140	20	290	1900	7.8	3840	
15...	--	2000	26	5400	5300	180	1200	79	1600	14000	2.0	27200	
NOV													
15...	--	580	960	--	--	--	--	--	--	1300	--	3500	
15...	--	88	84	--	--	--	--	--	--	14000	--	29400	
DEC													
11...	--	400	43	--	--	--	--	--	--	1700	--	3550	
11...	--	K5	K2	--	--	--	--	--	--	15000	--	30700	
JAN													
16...	88	--	72	1500	1500	120	290	40	460	4800	5.9	8800	
16...	K6	--	K5	5800	5700	190	1300	95	1500	15000	1.5	29900	
FEB													
14...	380	--	380	--	--	--	--	--	--	2000	--	3940	
14...	K10	--	K4	--	--	--	--	--	--	16000	--	30900	
MAR													
19...	500	--	2200	--	--	--	--	--	--	140	--	312	
19...	830	--	3100	--	--	--	--	--	--	6500	--	13100	
APR													
17...	300	--	50	200	190	18	38	16	84	580	5.7	1220	
17...	240	--	58	2300	2300	120	490	38	660	5000	4.1	10500	
MAY													
14...	190	--	K8	--	--	--	--	--	--	910	--	1960	
14...	100	--	33	--	--	--	--	--	--	13000	--	27400	
JUN													
12...	460	--	K11	--	--	--	--	--	--	1200	--	2460	
12...	50	--	K3	--	--	--	--	--	--	14000	--	259000	
JUL													
10...	560	--	20	510	490	39	100	24	200	1300	4.9	3160	
10...	48	--	<1	4600	4500	200	1000	100	1900	6100	1.5	30700	
AUG													
14...	2900	--	45	--	--	--	--	--	--	2300	--	4690	
14...	88	--	K4	--	--	--	--	--	--	15000	--	30300	
SEP													
02...	210	--	<1	--	--	--	--	--	--	4800	--	9850	
02...	K10	--	K8	--	--	--	--	--	--	15000	--	29300	

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01127701 THAMES RIVER NEAR MOHEGAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
15...	5.22	3870	--	--	.30	.10	.12	.51	.61	.91	4.0
15...	37.0	25800	--	--	.11	.28	.34	.10	.38	.49	2.2
NOV											
15...	4.76	3740	.30	.01	.31	.07	.08	.53	.60	.91	4.0
15...	40.0	32700	.15	.02	.17	.23	.28	.22	.45	.62	2.7
DEC											
11...	4.83	3690	.41	.01	.42	.08	.10	.24	.32	.74	3.3
11...	41.8	31900	.22	.01	.23	.13	.16	.00	.06	.29	1.3
JAN											
16...	12.0	9200	--	--	.44	.08	.10	.21	.29	.73	3.2
16...	40.7	31800	--	--	.19	.13	.16	.13	.26	.45	2.0
FEB											
14...	5.36	4230	.53	.02	.55	.16	.19	.38	.54	1.1	4.8
14...	42.0	32700	.11	.02	.13	.20	.15	.00	.06	.19	.80
MAR											
19...	.42	323	.50	.01	.51	.41	.50	.55	.96	1.5	6.5
19...	17.8	13400	.35	.02	.37	.45	.54	.00	.45	.82	3.6
APR											
17...	1.66	1360	--	--	.34	.08	.10	.13	.21	.55	2.4
17...	14.3	11800	--	--	.25	.13	.16	.10	.23	.48	2.1
MAY											
14...	2.67	20600	.35	.01	.36	.12	.15	.43	.55	.91	4.0
14...	37.3	33300	.08	.02	.10	.28	.34	.41	.69	.79	3.5
JUN											
12...	3.35	2520	.53	.01	.54	.03	.04	.49	.52	1.1	4.7
12...	352	32200	.11	.02	.13	.36	.44	.30	.66	.79	3.5
JUL											
10...	4.30	3180	--	--	.44	.05	.06	.54	.59	1.0	4.6
10...	41.8	33100	--	--	.04	.37	.45	.09	.46	.50	2.2
AUG											
14...	6.38	5050	.18	.01	.19	.12	.15	.32	.44	.63	2.8
14...	41.2	32700	.04	.03	.07	.37	.45	.07	.44	.51	2.3
SEP											
02...	13.4	10500	.01	.00	.01	.10	.12	.49	.59	.60	2.7
02...	39.8	31200	.05	.05	.10	.27	.33	.01	.28	.38	1.7

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
15...	.060	.18	4	200	20	10	5.8	.20	.000	.000
15...	.090	.28	2	390	50	30	2.8	.80	.000	.000
NOV										
15...	.050	.15	3	--	--	40	5.0	--	--	--
15...	.250	.77	2	--	--	60	4.8	--	--	--
DEC										
11...	.050	.15	4	--	--	20	4.2	--	--	--
11...	.060	.18	2	--	--	20	2.2	--	--	--
JAN										
16...	.050	.15	2	--	40	10	4.0	.30	.000	.000
16...	.070	.21	1	--	70	20	2.3	.90	.000	.000
FEB										
14...	.120	.37	6	--	--	10	2.6	--	--	--
14...	.050	.15	3	--	--	30	.6	--	--	--
MAR										
19...	.070	.21	3	--	--	10	5.1	--	--	--
19...	.140	.43	2	--	--	20	3.5	--	--	--
APR										
17...	.050	.15	2	90	30	10	3.8	.10	1.47	.000
17...	.100	.31	2	80	40	10	4.7	.50	2.73	.000
MAY										
14...	.060	.18	3	--	--	10	3.3	--	--	--
14...	.170	.52	2	--	--	30	5.3	--	--	--
JUN										
12...	.090	.28	3	--	--	10	4.3	--	--	--
12...	.110	.34	1	--	--	20	4.6	--	--	--
JUL										
10...	.080	.25	3	80	40	10	4.3	.20	8.27	.310
10...	.150	.46	1	180	100	30	5.3	.70	.970	.000
AUG										
14...	.100	.31	4	--	--	10	8.1	--	--	--
14...	.170	.52	4	--	--	30	5.2	--	--	--
SEP										
02...	.090	.28	3	--	--	30	4.5	--	--	--
02...	.490	1.5	2	--	--	70	5.5	--	--	--

RESERVOIRS IN THAMES RIVER BASIN

- 01119259 STAFFORDVILLE RESERVOIR.--Lat 41°59'46", long 72°15'37", Tolland County, Conn., Hydrologic Unit 01100002, on Furnace Brook in Willimantic River basin, at Staffordville. Drainage area, 8.34 mi² (21.60 km²). Usable capacity, 75,500,000 ft³ (2.14 hm³), based on reservoir survey by Connecticut Board of Fisheries and Game. Records available, September 1960 to current year. Dam was rebuilt after 1886 flood for storage of water for power and industrial supply.
- 01121500 MANSFIELD HOLLOW LAKE.--Lat 41°45'22", long 72°10'57", Tolland County, Conn., Hydrologic Unit 01100002, on Natchaug River at Mansfield Hollow, 3.5 mi (5.6 km) northeast of Willimantic. Drainage area, 160 mi² (414 km²). Usable capacity, 2,260,000,000 ft³ (64.0 hm³), including 90,000,000 ft³ (2.55 hm³) storage in recreation pool. Records available, March 1952 to current year. Completed in 1952 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01123350 EAST BRIMFIELD LAKE.--Lat 42°06'32", long 72°07'35", Worcester County, Mass., Hydrologic Unit 01100001, on Quinebaug River, 0.7 mi (1.1 km) southeast of Fiskdale, 1.2 mi (1.9 km) east of East Brimfield. Drainage area, 67.5 mi² (174.8 km²). Usable capacity, 1,400,000,000 ft³ (39.6 hm³), including 83,000,000 ft³ (2.35 hm³) storage in recreation and conservation pool. Records available, July 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for recreation, conservation, and flood control. Records furnished by Corps of Engineers.
- 01123550 WESTVILLE LAKE.--Lat 42°04'55", long 72°03'28", Worcester County, Mass., Hydrologic Unit 01100001, on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge. Drainage area, 99.1 mi² (256.7 km²). Usable capacity, 484,000,000 ft³ (13.7 hm³), including 4,400,000 ft³ (125,000 m³) storage in recreation pool. Records available, February 1962 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01124150 WEST THOMPSON LAKE.--Lat 41°56'40", long 71°54'00", Windham County, Conn., Hydrologic Unit 01100001, on Quinebaug River above mouth of French River, at West Thompson. Drainage area, 172 mi² (445 km²). Usable capacity, 1,170,000,000 ft³ (33.1 hm³), including 52,000,000 ft³ (1.47 hm³) storage in recreation pool. Records available, July 1965 to current year. Completed in 1965 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01124300 HODGES VILLAGE RESERVOIR.--Lat 42°07'09", long 71°52'51", Worcester County, Mass., Hydrologic Unit 01100001, on French River at Hodges Village. Drainage area, 31.0 mi² (80.3 km²). Usable capacity, 577,000,000 ft³ (16.3 hm³). Records available, February 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for flood control. Records furnished by Corps of Engineers.
- 01124400 BUFFUMVILLE LAKE.--Lat 42°06'58", long 71°54'29", Worcester County, Mass., Hydrologic Unit 01100001, on Little River in French River basin, at Buffumville, 2.2 mi (3.5 km) west of Oxford. Drainage area, 26.5 mi² (68.6 km²). Usable capacity, 555,000,000 ft³ (15.7 hm³), including 61,000,000 ft³ (1.73 hm³) storage in recreation pool. Records available, September 1958 to current year. Completed in 1958 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	01119259 STAFFORDVILLE RESERVOIR	01121500 MANSFIELD HOLLOW LAKE	01123350 EAST BRIMFIELD LAKE	01123550 WESTVILLE LAKE
Sept. 30, 1979.....	60.0	132.8	109.3	5.1
Oct. 31.....	75.5	116.8	107.7	4.8
Nov. 30.....	75.5	139.0	112.6	5.6
Dec. 31.....	75.5	94.2	112.6	5.6
Jan. 31, 1980.....	75.5	58.1	109.3	4.9
Feb. 29.....	75.5	75.2	106.0	4.7
Mar. 31.....	75.5	251.0	153.3	31.6
Apr. 30.....	75.5	173.4	122.1	18.1
May 31.....	75.5	126.7	106.0	4.8
June 30.....	75.5	114.8	107.7	5.7
July 31.....	75.5	182.6	112.6	5.6
Aug. 31.....	57.8	112.8	104.4	4.7
Sept. 30.....	57.7	112.8	102.7	5.0

Date	01124150 WEST THOMPSON LAKE	01124300 HODGES VILLAGE RESERVOIR	01124400 BUFFUMVILLE LAKE
Sept. 30, 1979.....	70.1	0.7	64.5
Oct. 31.....	64.8	1.0	65.3
Nov. 30.....	75.3	1.5	68.8
Dec. 31.....	66.9	1.0	68.0
Jan. 31, 1980.....	78.4	.5	64.5
Feb. 29.....	66.9	.5	64.5
Mar. 31.....	82.6	52.9	133.3
Apr. 30.....	101.4	6.3	74.3
May 31.....	71.1	.6	63.6
July 31.....	60.7	.8	62.7
Aug. 31.....	78.4	.8	64.5
Sept. 30.....	66.9	.4	50.9
	54.4	.4	58.4

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MA

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, multiple-parameter monitor on right bank at Agawam, MA, 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, CT.

DRAINAGE AREA.--9,661 mi² (25,022 km²) at gage at Thompsonville, CT.

PERIOD OF RECORD.--Water years 1969 to current year. Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, CT.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1969 to November 1977, July 1979 to current year.

pH: January 1969 to August 1976, July 1979 to current year.

WATER TEMPERATURES: January 1969 to November 1977, July 1979 to current year.

DISSOLVED OXYGEN: January 1969 to November 1977, July 1979 to current year.

INSTRUMENTATION.--Water quality monitor since January 1969.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, CT. (station 01184000) are used for this site. No winter records in water years 1973-77, 1979-80. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORDS.--

SPECIFIC CONDUCTANCE: Maximum recorded, 268 micromhos Feb. 3, 1973; minimum recorded, 41 micromhos

Mar. 25, 26, 1980.

pH: Maximum recorded, 9.7 units Aug. 9, 1970; minimum recorded, 5.2 units Mar. 26, 1980.

WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 16, 1970; minimum recorded, 0.0°C on several days during winter periods.

DISSOLVED OXYGEN: Maximum recorded, 15.9 mg/L Feb. 17, 1971; minimum recorded, 1.0 mg/L Aug. 20, 1971.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 163 micromhos Aug. 24; minimum recorded, 41 micromhos Mar. 25, 26.

pH: Maximum recorded, 7.9 units July 14, Aug. 10, Sept. 4; minimum recorded, 5.2 units Mar. 26.

WATER TEMPERATURES: Maximum recorded, 29.5°C July 26, Aug. 9; minimum recorded, 2.5°C Mar. 25, 26.

DISSOLVED OXYGEN: Maximum recorded, 14.0 mg/L Dec. 5, 6; minimum recorded, 3.7 mg/L Sept. 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	C.O.D. TOTAL IN BOTTOM MA- TERIAL (MG/KG)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT											
17...	1200	81	6.2	10.1	2.0	11.0	97	14	9000	5500	1000
NOV											
07...	1300	86	6.3	9.0	2.0	11.6	100	22	--	1200	1000
MAP											
12...	1215	94	6.7	3.0	3.0	13.4	99	0	--	3400	--
APR											
08...	1315	57	6.1	6.9	.80	11.3	93	11	33000	2000	--
MAY											
14...	1400	69	6.3	15.0	1.1	9.2	91	5	--	16000	--
JUN											
03...	0830	115	6.2	20.5	1.5	7.0	77	16	15000	38000	--
JUL											
22...	1400	132	6.9	29.0	.30	8.6	111	10	--	19000	--
AUG											
19...	1130	137	6.8	23.5	.80	10.2	119	8	300	26000	--
SEP											
30...	1300	128	6.8	19.0	.50	10.7	114	21	--	48000	--

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, VOLATILE IN BOTTOM MA- TERIAL (MG/KG)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT										
17...	180	6.8	.8	9.2	8.2	8	66	5890	.21	.000
NOV										
07...	180	--	--	--	--	11	104	--	.23	.000
MAR										
12...	1300	--	--	--	--	38	34	--	.60	.010
APR										
08...	72	--	--	9.4	6.8	39	48	33000	.35	.000
MAY										
14...	360	--	--	--	--	8	60	--	.29	.020
JUN										
03...	230	--	--	12	10	9	83	15400	.36	.020
JUL										
22...	880	--	--	--	--	8	83	--	.28	.010
AUG										
19...	43	--	--	13	14	4	84	13200	.36	.010
SEP										
30...	290	--	--	--	--	10	91	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

OCT								
17...	.00	.00	.00	.00	.00	.00	.00	0
APR								
08....	.00	.00	.00	.00	.00	.00	.00	0

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	114	88	107	116	110	113	81	77	79			
2	116	82	93	125	116	120	78	76	77			
3	88	72	79	129	105	115	81	76	78			
4	73	65	67	106	77	84	84	81	82			
5	71	65	68	86	75	81	86	80	84			
6	77	70	74	92	84	88	80	74	77			
7	83	74	78	89	86	87	87	79	85			
8	87	83	85	91	89	90	86	81	83			
9	91	83	85	92	91	92	87	81	84			
10	90	80	85	92	89	91	100	86	94			
11	88	80	84	90	77	84	99	92	96			
12	94	85	88	83	77	80	---	---	---			
13	88	81	83	85	79	82	---	---	---			
14	83	79	80	88	85	87	---	---	---			
15	83	80	82	88	85	86	---	---	---			
16	84	80	82	91	84	87	---	---	---			
17	90	80	86	97	89	92	---	---	---			
18	89	87	88	109	94	99	---	---	---			
19	94	89	91	109	98	105	---	---	---			
20	105	94	97	106	93	99	---	---	---			
21	105	95	99	92	89	90	---	---	---			
22	107	99	103	96	90	92	---	---	---			
23	110	102	107	102	95	99	---	---	---			
24	111	106	109	102	94	97	---	---	---			
25	108	95	101	110	95	102	---	---	---			
26	102	97	99	111	97	104	---	---	---			
27	104	98	102	99	55	70	---	---	---			
28	113	102	106	67	56	62	---	---	---			
29	113	103	106	72	67	69	---	---	---			
30	110	106	108	77	72	75	---	---	---			
31	118	110	114	---	---	---	---	---	---			
MONTH	118	65	91	129	55	91	100	74	84			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	56	52	53	65	58	61
2				---	---	---	55	52	54	77	65	70
3				---	---	---	59	53	57	84	74	79
4				---	---	---	67	59	63	84	81	82
5				---	---	---	60	57	58	85	82	83
6				---	---	---	63	59	61	88	79	83
7				---	---	---	66	63	65	89	85	87
8				---	---	---	68	64	66	84	79	82
9				---	---	---	69	63	67	83	82	83
10				---	---	---	67	47	56	84	81	82
11				---	---	---	59	51	55	87	82	85
12				---	---	---	55	52	54	89	86	88
13				---	---	---	55	53	54	90	88	89
14				---	---	---	55	53	54	88	75	83
15				---	---	---	62	54	59	80	71	74
16				---	---	---	54	51	52	81	76	77
17				---	---	---	54	51	53	89	80	83
18				---	---	---	60	53	56	95	87	90
19				---	---	---	68	61	65	97	86	93
20				---	---	---	74	68	70	90	82	86
21				---	---	---	77	74	75	91	84	89
22				---	---	---	78	77	77	90	84	86
23				---	---	---	83	79	81	95	90	92
24				---	---	---	83	80	81	95	83	90
25				44	41	42	87	80	82	102	89	98
26				43	41	42	88	87	88	121	101	110
27				46	43	45	89	86	88	124	107	114
28				54	47	51	91	85	89	115	108	111
29				59	55	56	85	64	79	115	109	112
30				63	59	61	68	57	64	115	112	113
31				60	57	59	---	---	---	121	113	116
MONTH				63	41	51	91	47	66	124	58	89

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	129	112	120	109	102	106	136	133	134	160	145	149
2	132	119	126	110	106	108	143	135	139	149	143	146
3	124	104	115	112	106	108	145	135	139	144	136	140
4	109	102	107	118	107	112	139	131	134	138	128	133
5	106	101	103	123	115	119	139	104	130	131	127	130
6	107	98	103	126	117	123	137	125	133	132	127	130
7	121	107	114	129	120	126	136	129	133	149	130	136
8	125	117	121	130	117	122	135	129	132	152	132	137
9	119	111	115	130	119	126	138	129	132	137	130	133
10	113	109	111	134	124	127	139	132	134	142	129	134
11	114	109	112	128	122	124	134	119	131	137	131	133
12	113	106	109	133	123	127	133	129	130	141	129	134
13	116	109	111	138	128	132	133	128	130	154	135	141
14	133	112	125	135	129	133	128	124	125	157	138	147
15	130	117	124	129	122	125	136	127	131	155	146	149
16	138	120	128	130	121	126	150	133	140	146	135	139
17	123	112	116	---	---	---	149	137	145	141	133	137
18	116	109	113	---	---	---	147	136	141	141	111	130
19	119	112	116	---	---	---	141	135	138	136	127	130
20	130	114	120	---	---	---	145	137	139	137	131	134
21	131	122	126	---	---	---	146	141	143	144	135	139
22	141	123	130	130	114	128	144	137	141	145	137	141
23	145	130	136	132	119	129	160	142	150	140	127	133
24	134	125	129	133	125	128	163	147	154	128	121	125
25	132	125	129	137	125	130	156	145	149	133	124	129
26	126	120	123	136	132	134	153	142	147	137	122	129
27	131	120	125	138	133	135	147	140	143	133	122	127
28	133	125	128	140	133	136	140	132	135	131	127	129
29	133	112	123	150	120	138	140	134	136	136	125	130
30	137	107	121	138	126	131	146	140	143	133	128	130
31	---	---	---	141	131	135	157	141	148	---	---	---
MONTH	145	98	119	150	102	126	163	104	138	160	111	135
YEAR	163	41	104									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

PH (UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	5.8	5.6	5.7	6.5	6.4	6.4
2				---	---	---	5.7	5.7	5.7	6.6	6.4	6.5
3				---	---	---	5.9	5.7	5.8	6.6	6.4	6.5
4				---	---	---	6.1	5.8	6.0	6.6	6.5	6.6
5				---	---	---	6.1	6.0	6.1	6.6	6.5	6.6
6				---	---	---	6.3	6.1	6.2	6.6	6.4	6.5
7				---	---	---	6.3	6.1	6.2	6.6	6.4	6.5
8				---	---	---	6.3	6.2	6.2	6.6	6.4	6.5
9				---	---	---	6.3	6.1	6.2	6.7	6.5	6.6
10				---	---	---	6.3	5.9	6.1	6.7	6.6	6.7
11				---	---	---	6.2	6.0	6.1	6.7	6.6	6.7
12				---	---	---	6.2	6.1	6.1	6.7	6.6	6.6
13				---	---	---	6.3	6.2	6.2	6.6	6.5	6.6
14				---	---	---	6.3	6.1	6.2	6.6	6.4	6.6
15				---	---	---	6.3	6.2	6.3	6.6	6.4	6.5
16				---	---	---	6.2	6.1	6.2	6.6	6.4	6.5
17				---	---	---	6.3	6.1	6.2	6.6	6.4	6.5
18				---	---	---	6.3	6.2	6.2	6.5	6.4	6.4
19				---	---	---	6.4	6.2	6.3	6.5	6.3	6.4
20				---	---	---	6.5	6.3	6.4	6.6	6.3	6.5
21				---	---	---	6.5	6.3	6.4	6.5	6.4	6.5
22				---	---	---	6.4	6.3	6.4	6.6	6.4	6.5
23				---	---	---	6.5	6.4	6.4	6.7	6.5	6.6
24				---	---	---	6.5	6.4	6.5	6.7	6.5	6.6
25				5.7	5.4	5.5	6.5	6.4	6.5	6.8	6.5	6.6
26				5.4	5.2	5.3	6.5	6.5	6.5	6.5	6.3	6.4
27				5.4	5.3	5.4	6.6	6.5	6.6	6.6	6.3	6.4
28				5.6	5.4	5.5	6.6	6.5	6.6	6.8	6.5	6.7
29				5.7	5.6	5.6	6.6	6.4	6.5	6.7	6.5	6.6
30				5.8	5.7	5.7	6.6	6.4	6.5	6.6	6.4	6.5
31				5.7	5.7	5.7	---	---	---	6.6	6.4	6.5
MONTH				5.8	5.2	5.5	6.6	5.6	6.2	6.8	6.3	6.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	6.5	6.3	6.4	6.5	6.2	6.3	7.0	6.1	6.4	6.7	5.8	6.2
2	6.5	6.3	6.4	6.4	6.2	6.3	6.9	6.1	6.4	7.4	5.9	6.5
3	6.6	6.4	6.5	6.4	6.2	6.3	7.2	6.2	6.6	7.6	6.1	6.7
4	6.6	6.4	6.5	6.5	6.1	6.3	7.9	6.2	6.8	7.9	6.3	7.0
5	6.7	6.4	6.6	6.8	6.2	6.4	7.6	6.3	6.6	6.5	6.1	6.3
6	6.8	6.5	6.7	6.8	6.3	6.5	7.7	6.3	6.7	6.9	6.0	6.3
7	6.6	6.2	6.4	7.2	6.3	6.6	7.2	6.2	6.5	6.3	5.8	6.1
8	6.3	6.2	6.3	6.8	6.3	6.5	7.4	6.3	6.6	6.6	5.9	6.2
9	6.5	6.3	6.4	6.6	6.2	6.4	6.7	6.3	6.4	7.1	6.0	6.3
10	6.5	6.3	6.4	6.7	6.2	6.4	7.9	6.3	7.0	6.9	6.0	6.4
11	6.4	6.3	6.4	7.0	6.2	6.5	6.7	6.4	6.5	7.8	6.1	6.8
12	6.6	6.3	6.5	6.8	6.2	6.5	7.2	6.3	6.7	6.9	6.0	6.4
13	6.5	6.4	6.5	6.9	6.2	6.5	6.9	6.3	6.5	6.3	5.9	6.1
14	6.6	6.3	6.4	7.9	6.2	6.8	6.5	6.3	6.2	6.1	5.8	6.0
15	6.6	6.2	6.4	7.4	6.3	6.8	6.9	6.2	6.4	6.3	5.9	6.1
16	6.6	6.3	6.4	7.3	6.4	6.8	6.6	6.2	6.4	6.6	5.9	6.1
17	7.1	6.5	6.8	---	---	---	6.8	6.3	6.5	6.3	6.0	6.1
18	6.8	6.5	6.6	---	---	---	7.6	6.2	6.7	6.3	5.8	6.0
19	6.8	6.4	6.6	---	---	---	7.6	6.4	6.8	6.5	5.9	6.1
20	6.6	6.4	6.5	---	---	---	7.5	6.1	6.5	6.3	6.0	6.1
21	6.5	6.3	6.4	---	---	---	7.0	6.1	6.4	6.4	6.0	6.1
22	6.7	6.3	6.5	7.0	6.1	6.6	7.8	6.0	6.7	6.9	5.9	6.3
23	7.1	6.3	6.7	6.4	6.0	6.1	6.3	5.9	6.1	6.7	6.0	6.2
24	7.2	6.3	6.7	6.3	5.9	6.1	6.7	6.0	6.2	6.8	6.1	6.3
25	7.2	6.4	6.7	6.7	5.9	6.2	7.5	6.0	6.3	6.5	6.1	6.2
26	7.1	6.5	6.7	6.9	6.0	6.3	7.8	6.0	6.5	6.4	6.1	6.2
27	6.8	6.3	6.6	7.1	6.0	6.4	7.6	6.1	6.6	6.6	6.1	6.3
28	6.7	6.3	6.5	7.5	6.1	6.7	7.8	6.2	6.8	6.6	6.0	6.2
29	6.4	6.2	6.3	6.3	6.1	6.2	6.4	6.0	6.1	6.3	5.9	6.1
30	6.2	6.1	6.2	6.5	6.1	6.2	6.5	5.8	6.1	6.6	6.0	6.2
31	---	---	---	6.5	6.1	6.3	6.5	5.8	6.1	---	---	---
MONTH	7.2	6.1	6.5	7.9	5.9	6.4	7.9	5.8	6.5	7.9	5.8	6.3
YEAR	7.9	5.2	6.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

CONNECTICUT RIVER BASIN

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01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.5	16.5	17.0	10.5	9.5	10.0	6.5	5.5	6.0			
2	17.5	16.5	17.0	11.5	10.0	10.5	5.5	4.5	5.0			
3	17.0	16.5	16.5	12.0	10.5	11.5	4.5	3.5	4.0			
4	16.5	16.0	16.0	10.5	9.5	10.0	4.5	3.5	4.0			
5	16.5	15.5	16.0	10.0	8.5	9.0	4.5	3.0	4.0			
6	16.5	15.5	16.0	9.0	8.5	9.0	6.0	3.5	5.0			
7	16.0	15.0	15.5	9.0	8.5	9.0	5.5	4.5	5.0			
8	15.5	14.5	15.0	9.0	8.0	8.5	5.0	4.0	5.0			
9	14.5	13.5	14.0	9.0	8.0	8.5	4.0	3.0	3.5			
10	13.5	12.0	12.5	9.5	9.0	9.5	4.0	3.0	3.5			
11	11.5	11.0	11.5	9.5	9.0	9.5	4.5	3.5	4.0			
12	11.0	10.5	11.0	9.5	9.0	9.0	---	---	---			
13	11.0	10.5	10.5	9.0	8.5	9.0	---	---	---			
14	10.5	9.5	10.0	9.0	8.5	8.5	---	---	---			
15	10.5	9.5	10.0	8.5	7.5	8.0	---	---	---			
16	10.5	9.5	10.0	8.0	7.0	7.5	---	---	---			
17	11.0	10.0	10.5	7.5	6.5	7.0	---	---	---			
18	11.5	10.5	11.0	7.0	6.5	7.0	---	---	---			
19	11.5	10.5	11.0	8.0	6.5	7.0	---	---	---			
20	12.5	11.5	12.0	8.0	7.0	7.5	---	---	---			
21	13.5	12.0	13.0	8.0	7.0	7.5	---	---	---			
22	14.5	13.0	13.5	7.5	7.0	7.5	---	---	---			
23	15.0	14.0	14.5	8.5	7.5	8.0	---	---	---			
24	15.0	14.5	14.5	9.5	8.0	8.5	---	---	---			
25	14.5	12.5	13.5	10.5	9.5	10.0	---	---	---			
26	12.5	11.5	12.0	12.0	10.0	11.0	---	---	---			
27	11.5	10.0	11.0	12.0	10.0	11.5	---	---	---			
28	10.0	9.5	9.5	10.0	9.0	9.5	---	---	---			
29	10.0	9.0	9.5	9.0	8.0	8.5	---	---	---			
30	10.5	9.5	10.0	8.0	6.5	7.0	---	---	---			
31	11.0	9.5	10.0	---	---	---	---	---	---			
MONTH	17.5	9.0	12.5	12.0	6.5	9.0	6.5	3.0	4.5			

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

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.0	18.5	20.0	23.5	21.5	22.5	27.5	25.0	26.5	27.5	23.5	25.5
2	21.0	19.5	20.5	22.5	21.5	22.0	28.5	25.5	27.0	27.5	24.5	26.0
3	21.5	20.0	21.0	23.5	21.5	22.5	28.0	25.5	27.0	26.5	24.5	25.5
4	21.0	20.0	20.5	25.0	22.0	23.5	29.0	26.0	27.5	26.5	24.0	25.0
5	20.5	19.5	20.0	25.5	22.5	24.0	29.0	26.5	27.5	25.0	23.5	24.5
6	21.0	19.0	20.0	25.5	23.0	24.0	29.0	27.0	27.5	25.5	23.0	24.5
7	20.0	19.0	19.5	25.0	22.0	23.5	29.0	26.0	27.5	25.5	23.0	24.0
8	19.0	18.0	18.5	23.0	22.5	22.5	29.5	26.5	28.0	25.5	22.5	23.5
9	19.0	17.5	18.0	24.5	21.5	23.0	29.5	27.5	28.0	24.0	21.5	22.5
10	18.0	17.0	17.5	26.0	22.5	24.5	28.5	26.5	27.5	25.0	22.0	23.0
11	18.5	16.5	17.5	26.0	23.5	25.0	26.5	25.5	26.0	24.0	21.0	22.5
12	18.5	16.5	17.5	26.5	24.0	25.0	27.5	25.5	26.5	24.0	21.0	22.5
13	19.5	17.5	18.5	27.0	23.5	25.0	27.5	25.0	26.0	23.0	21.0	21.5
14	21.0	17.5	19.5	27.0	23.5	25.0	25.5	23.0	25.0	23.0	21.0	21.5
15	22.5	18.5	20.5	27.5	24.5	25.5	26.0	24.5	25.0	21.5	20.0	20.5
16	23.0	20.0	21.0	28.0	24.5	26.0	26.5	23.0	24.5	22.0	19.5	20.5
17	22.5	20.5	21.5	---	---	---	25.0	22.5	23.5	21.5	19.5	20.5
18	23.0	20.5	21.5	---	---	---	25.0	22.5	23.5	21.5	19.5	20.5
19	22.5	20.0	21.0	---	---	---	24.0	23.0	23.5	21.5	19.0	20.0
20	20.5	19.5	20.0	---	---	---	23.0	21.5	22.5	21.0	19.5	20.0
21	21.0	19.0	20.0	---	---	---	22.5	21.0	22.0	22.0	19.5	21.0
22	23.5	18.5	21.0	29.0	27.0	28.5	23.0	20.5	22.0	23.5	21.0	22.5
23	24.0	20.5	22.0	28.5	26.5	27.5	25.0	21.5	23.0	23.5	21.5	22.5
24	24.5	21.0	23.0	28.5	26.0	27.0	26.0	22.0	24.0	22.0	20.0	21.0
25	26.0	21.5	24.0	29.0	25.5	27.0	26.0	23.0	24.5	20.5	19.5	19.5
26	26.0	23.0	24.5	29.5	26.0	27.5	27.5	23.5	25.5	20.5	18.5	19.5
27	26.5	23.5	25.0	29.0	26.5	27.5	26.5	24.5	25.5	19.5	17.0	18.0
28	26.0	23.0	24.5	28.0	26.5	27.0	26.5	25.0	25.5	19.0	16.5	17.5
29	23.5	21.5	23.0	26.5	25.5	26.0	25.0	23.5	24.0	19.0	16.0	17.5
30	22.5	22.0	22.0	28.0	25.5	26.5	24.5	23.5	23.5	19.5	17.0	18.0
31	---	---	---	28.0	25.0	26.5	26.0	23.0	24.5	---	---	---
MONTH	26.5	16.5	21.0	29.5	21.5	25.0	29.5	20.5	25.5	27.5	16.0	21.5
YEAR	29.5	2.5	16.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.8	6.7	7.8	10.7	9.1	10.1	13.4	12.2	13.1			
2	8.6	7.0	8.2	10.8	9.6	10.4	13.8	12.5	13.4			
3	8.8	8.0	8.5	10.5	9.3	10.1	13.9	12.8	13.7			
4	9.3	8.7	9.1	11.7	9.9	11.2	13.8	12.8	13.6			
5	9.7	9.0	9.5	11.8	10.6	11.6	14.0	12.9	13.6			
6	9.7	8.7	9.5	11.9	10.6	11.6	14.0	13.0	13.4			
7	9.6	9.0	9.3	12.2	10.7	11.8	13.3	12.3	13.1			
8	9.2	8.4	9.1	12.3	11.5	12.0	13.4	12.3	13.1			
9	9.4	8.6	9.2	12.1	11.3	11.9	13.9	12.5	13.4			
10	10.0	8.8	9.7	12.1	11.2	11.7	13.9	12.8	13.5			
11	10.3	9.4	10.1	12.0	11.0	11.7	13.8	12.6	13.5			
12	10.4	9.6	10.3	12.1	11.0	11.8	---	---	---			
13	10.9	9.8	10.7	12.0	11.2	11.8	---	---	---			
14	11.0	10.2	10.8	11.9	10.9	11.7	---	---	---			
15	11.2	10.2	10.9	12.3	11.1	11.9	---	---	---			
16	11.2	10.2	10.9	12.3	11.4	12.2	---	---	---			
17	11.1	10.1	10.9	12.5	11.6	12.3	---	---	---			
18	10.9	10.2	10.8	12.4	11.4	12.1	---	---	---			
19	10.7	10.0	10.4	12.1	10.9	11.8	---	---	---			
20	10.4	9.7	10.1	12.2	11.1	11.9	---	---	---			
21	9.8	9.1	9.6	12.6	11.6	12.4	---	---	---			
22	9.4	8.6	9.2	12.5	11.7	12.2	---	---	---			
23	9.0	8.2	8.7	12.3	11.4	11.9	---	---	---			
24	8.7	7.9	8.4	12.2	11.4	11.9	---	---	---			
25	9.1	7.7	8.5	12.0	10.8	11.2	---	---	---			
26	9.3	8.4	9.0	10.9	9.2	10.4	---	---	---			
27	9.8	8.5	9.4	11.7	9.7	11.0	---	---	---			
28	9.8	9.1	9.6	12.1	11.1	11.9	---	---	---			
29	10.1	8.9	9.8	12.5	11.5	12.3	---	---	---			
30	9.9	9.1	9.7	13.0	11.8	12.7	---	---	---			
31	9.7	9.0	9.6	---	---	---	---	---	---			
MONTH	11.2	6.7	9.6	13.0	9.1	11.7	14.0	12.2	13.4			

CONNECTICUT RIVER BASIN

01183994 FRESHWATER BROOK AT ENFIELD, CT

LOCATION.--Lat 41°53'48", long 72°35'42", Hartford County, Hydrologic Unit 01080205, 25 ft (8 m) west of Enfield Street on right bank, 0.8 mi (1.3 km) upstream from confluence of the Connecticut River, at Enfield.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--April 30, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 98.85 ft (30.129 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 3,800 ft³/s (about 107 m³/s) by contracted-opening measurement 25 ft (8 m) upstream, Aug. 19, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 38 ft³/s (1.08 m³/s) Sept. 17, gage height, 2.26 ft (0.689 m).

DATE: SEP. 17, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	3.0	043000	3.0	084500	3.0	130000	3.0	171500	3.0	213000	3.0
003000	3.0	044500	3.0	090000	3.0	131500	3.0	173000	3.0	214500	3.0
004500	3.0	050000	3.0	091500	3.0	133000	3.0	174500	3.0	220000	3.0
010000	3.0	051500	3.0	093000	3.0	134500	3.0	180000	3.0	221500	3.0
011500	3.0	053000	3.0	094500	3.0	140000	3.0	181500	3.0	223000	3.0
013000	3.0	054500	3.0	100000	3.0	141500	3.0	183000	3.0	224500	3.0
014500	3.0	060000	3.0	101500	3.0	143000	3.0	184500	3.0	230000	4.8
020000	3.0	061500	3.0	103000	3.0	144500	3.0	190000	3.0	231500	38
021500	3.0	063000	3.0	104500	3.0	150000	3.0	191500	3.0	233000	19
023000	3.0	064500	3.0	110000	3.0	151500	3.0	193000	3.0	234500	15
024500	3.0	070000	3.0	111500	3.0	153000	3.0	194500	3.0	240000	19
030000	3.0	071500	3.0	113000	3.0	154500	3.0	200000	3.0		
031500	3.0	073000	3.0	114500	3.0	160000	3.0	201500	3.0		
033000	3.0	074500	3.0	120000	3.0	161500	3.0	203000	3.0		
034500	3.0	080000	3.0	121500	3.0	163000	3.0	204500	3.0		
040000	3.0	081500	3.0	123000	3.0	164500	3.0	210000	3.0		
041500	3.0	083000	3.0	124500	3.0	170000	3.0	211500	3.0		

DATE: SEP. 18, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	23	043000	25	084500	9.9	130000	10.0	171500	9.3	213000	7.2
003000	26	044500	24	090000	9.9	131500	10.0	173000	9.3	214500	7.2
004500	29	050000	22	091500	9.7	133000	10.0	174500	9.1	220000	7.0
010000	31	051500	21	093000	9.7	134500	10.0	180000	9.1	221500	7.0
011500	32	053000	19	094500	9.7	140000	10.0	181500	8.9	223000	6.9
013000	33	054500	18	100000	9.7	141500	10.0	183000	8.7	224500	6.7
014500	33	060000	16	101500	9.7	143000	10.0	184500	8.7	230000	6.7
020000	33	061500	15	103000	9.9	144500	10.0	190000	8.5	231500	6.6
021500	33	063000	14	104500	9.9	150000	9.9	191500	8.5	233000	6.6
023000	33	064500	13	110000	9.9	151500	9.9	193000	8.3	234500	6.4
024500	32	070000	12	111500	9.9	153000	9.9	194500	8.1	240000	6.3
030000	32	071500	11	113000	9.9	154500	9.9	200000	8.1		
031500	31	073000	11	114500	9.9	160000	9.7	201500	7.9		
033000	30	074500	11	120000	9.9	161500	9.7	203000	7.7		
034500	29	080000	10.0	121500	9.9	163000	9.5	204500	7.5		
040000	28	081500	10.0	123000	9.9	164500	9.5	210000	7.5		
041500	27	083000	9.9	124500	10.0	170000	9.5	211500	7.3		

CONNECTICUT RIVER BASIN

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420002072355001 RAIN GAGE AT HIGGINS SCHOOL AT ENFIELD, CT

LOCATION.--Lat 42°00'02", long 72°35'50", Hartford County, Hydrologic Unit 01080205, on roof of Higgins Elementary School in Freshwater Brook drainage basin, on Alden Avenue, 0.4 mi (0.6 km) north of gage on Freshwater Brook at Enfield Street, at Enfield.

PERIOD OF RECORD.--July 9, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.60 in (15.2 mm) Aug. 27, 1972; maximum for 15 minutes, 1.15 in (29.2 mm) Aug. 7, 1955; maximum for 30 minutes, 1.34 in (34.0 mm) July 10, 1966; maximum hourly, 1.85 in (47.0 mm) Aug. 17, 1962; maximum daily, 12.12 in (308 mm) Aug. 18-19, 1955; at site 6.6 mi (10.6 km) southwest at Bradley International Airport.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.35 in (8.89 mm) Sept. 17; maximum for 15 minutes, 0.64 in (16.3 mm) Sept. 17; maximum for 30 minutes, 0.81 in (20.6 mm) Sept. 17; maximum hourly, 0.93 in (23.6 mm) Sept. 17; maximum daily, 1.30 in (33.0 mm) July 29.

DATE: JULY 29, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
094500	0.01	111500	0.06	124500	0.09	141500	0.02	154500	0.05	171500	0.01
100000	0.03	113000	0.08	130000	0.03	143000	0.01	160000	0.03	173000	0.000
101500	0.04	114500	0.08	131500	0.04	144500	0.000	161500	0.02	174500	0.01
103000	0.09	120000	0.07	133000	0.05	150000	0.01	163000	0.01		
104500	0.07	121500	0.05	134500	0.03	151500	0.04	164500	0.01		
110000	0.06	123000	0.11	140000	0.03	153000	0.06	170000	0.000		

DATE: SEP. 17, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
224500	0.02	231500	0.64	234500	0.05						
230000	0.17	233000	0.07	240000	0.06						

DATE: SEP. 18, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.03	040000	0.000	074500	0.000	113000	0.000	151500	0.000	190000	0.000
003000	0.02	041500	0.000	080000	0.000	114500	0.000	153000	0.000	191500	0.000
004500	0.01	043000	0.000	081500	0.000	120000	0.000	154500	0.000	193000	0.000
010000	0.000	044500	0.000	083000	0.000	121500	0.000	160000	0.000	194500	0.000
011500	0.000	050000	0.000	084500	0.000	123000	0.000	161500	0.000	200000	0.000
013000	0.000	051500	0.000	090000	0.000	124500	0.000	163000	0.000	201500	0.000
014500	0.000	053000	0.000	091500	0.000	130000	0.000	164500	0.000	203000	0.000
020000	0.000	054500	0.000	093000	0.000	131500	0.000	170000	0.000	204500	0.000
021500	0.000	060000	0.000	094500	0.000	133000	0.000	171500	0.000	210000	0.000
023000	0.01	061500	0.000	100000	0.000	134500	0.000	173000	0.000	211500	0.000
024500	0.000	063000	0.000	101500	0.000	140000	0.000	174500	0.000	213000	0.01
030000	0.000	064500	0.000	103000	0.000	141500	0.000	180000	0.000		
031500	0.000	070000	0.000	104500	0.000	143000	0.000	181500	0.000		
033000	0.000	071500	0.000	110000	0.000	144500	0.000	183000	0.000		
034500	0.000	073000	0.000	111500	0.000	150000	0.000	184500	0.000		

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT
(National stream-quality accounting network and radiochemical station)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, Hydrologic Unit 01080205, 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 (kilometer 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 741: 1932. WSP 891: Drainage area. WDR CT-77-1: 1976.

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light and Power Co. Flow regulated by power plants, by diversion from Chicopee River basin and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir, and other reservoirs, combined usable capacity, about 107 billion cu ft (3.03 billion cu m). Records of chemical analyses and water temperatures for the current year for station 01183750 (Connecticut River at Agawam, Mass.), 4.5 mi (7.2 km) upstream, are published on page of this report.

AVERAGE DISCHARGE.--52 years, 16,380 ft³/s (464.0 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 282,000 ft³/s (7,990 m³/s) Mar. 20, 1936, gage height, 16.6 ft (5.06 m), from floodmarks; minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,700 ft³/s (2,460 m³/s) Apr. 11, gage height, 5.80 ft (1.768 m); minimum daily, 1,810 ft³/s (51.3 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7080	12500	26000	17300	10200	6180	36300	32800	3960	10200	6400	2550
2	17200	8850	23000	14900	7520	5700	34200	26900	4450	8390	5700	3900
3	21700	12600	20500	12200	5110	5300	31900	22800	10200	7880	5480	7270
4	32200	18700	18500	13000	6170	5420	31200	21800	11500	6130	5170	7280
5	29800	19800	17300	12100	8230	7430	36200	20300	13900	5440	6730	6520
6	27900	19400	16800	11400	7800	8880	40000	17500	13900	5570	7290	6390
7	21300	26000	16900	8900	7360	5980	30700	16800	8940	4570	7550	3500
8	18300	22000	17900	10600	7400	6650	27400	21600	6250	5340	7640	3700
9	18900	17800	15200	10200	6830	9000	26500	26300	9210	5770	4170	4620
10	20100	18900	10500	8440	5410	7950	59300	27500	10900	6180	3430	3900
11	18900	17500	11300	10700	5580	16100	85100	23900	8940	5990	5220	4010
12	18100	16500	13100	16400	7780	18000	80700	20300	10700	4800	6730	3510
13	18900	16900	13400	17400	6990	16600	69500	19400	8330	2980	8080	1940
14	18200	15000	15600	13800	6060	15400	60700	21800	5100	4070	5250	1810
15	17900	13200	15500	13300	5080	10200	59200	22100	3940	5520	5220	3690
16	17900	11700	9450	14000	4800	6660	55500	20200	4650	5360	3720	4750
17	17300	10500	10500	16400	3980	6970	52100	16700	9400	5360	3730	4990
18	16300	9590	13600	16200	3820	19200	44400	12700	7380	4510	3360	7560
19	14300	9400	14800	16400	5700	34700	37500	11200	7450	3620	4240	8610
20	12800	11500	13800	15300	9390	32900	31600	14300	5440	2860	4290	5720
21	11900	15000	13400	11700	8430	33100	25000	15700	4900	3100	4410	4190
22	11600	14500	9930	12600	7940	75800	24400	16000	3530	6230	4160	4450
23	11300	12000	7710	13500	6350	56300	20300	15600	4060	5740	2910	7560
24	12100	10000	10100	10400	5790	41600	22300	15300	5320	5000	2850	9440
25	14500	9300	15400	9960	5280	44000	21800	12400	5590	5520	3360	8770
26	13300	16000	27100	9680	5700	45300	19600	4970	5530	4070	3770	9880
27	13500	30000	29300	6750	5720	40700	21600	5870	5340	3100	4960	9490
28	11300	35700	30500	6210	6360	31800	22200	8570	4750	3600	5150	6920
29	14100	35000	25400	9320	6340	31700	32200	8430	3590	6980	4240	5150
30	11000	30000	20300	9840	---	39600	34600	7990	7360	7400	3240	6640
31	11700	---	17900	9750	---	41400	---	6820	---	7020	2440	---
TOTAL	521380	515840	520690	378650	189120	726520	1174000	534550	214510	168300	150890	168710
MEAN	16820	17190	16800	12210	6521	23440	39130	17240	7150	5429	4867	5624
MAX	32200	35700	30500	17400	10200	75800	85100	32800	13900	10200	8080	9880
MIN	7080	8850	7710	6210	3820	5300	19600	4970	3530	2860	2440	1810
CAL YR 1979 TOTAL	7885360			21600	MAX	107000	MIN	3940				
WTR YR 1980 TOTAL	5263160			14380	MAX	85100	MIN	1810				

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1955 to September 1956, October 1973 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1973.

REMARKS.--No current year record for specific conductance due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 206 micromhos January 22, 1979; minimum, 46 micromhos Apr. 02, 1977.

WATER TEMPERATURES: Maximum, 36.5°C Aug. 30, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.5°C July 21-22, Aug. 8-9; minimum, 0.0°C on several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	1000	19300	84	7.1	7.0	10.0	40	5.0	9.9	88	58000	--
NOV												
19...	0930	10400	100	6.3	8.0	7.0	20	3.0	11.7	96	50000	--
DEC												
14...	1030	15400	104	6.5	-5	3.5	20	4.0	12.2	91	50000	--
JAN												
15...	1015	12400	106	7.5	7.0	3.0	10	3.0	13.0	96	17000	3300
FEB												
15...	0915	4730	136	6.5	-1.0	.5	10	2.0	13.1	91	3500	720
MAR												
18...	1000	16900	130	6.1	4.5	5.0	20	20	12.2	95	15000	10000
APR												
18...	1015	44800	66	7.1	13.0	6.5	40	6.0	11.9	96	2100	420
MAY												
16...	0900	20900	85	6.9	16.0	14.5	4	3.0	9.8	95	63000	3400
JUN												
10...	1030	11200	122	7.0	18.5	18.0	5	2.0	8.1	85	70000	3600
JUL												
09...	1000	4870	121	6.8	27.0	23.0	6	2.0	7.6	87	15000	1400
AUG												
12...	0900	5940	130	6.5	25.0	26.0	6	3.0	5.8	72	50000	1800
SEP												
04...	0900	6830	156	7.0	21.0	24.5	3	3.0	8.1	95	120000	2900

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)
OCT												
11...	4700	600	26	9	8.4	1.3	6.2	37	.5	7.4	1.2	17
NOV												
19...	3600	310	29	11	9.1	1.4	6.4	36	.5	7.7	1.3	18
DEC												
14...	5400	860	29	5	9.3	1.4	6.6	37	.5	7.8	1.2	24
JAN												
15...	--	1600	30	3	9.3	1.6	5.7	28	.5	6.8	1.1	27
FEB												
15...	--	440	37	11	12	1.7	7.2	29	.5	8.5	1.3	26
MAR												
18...	--	5000	33	15	9.8	2.0	9.1	36	.7	11	2.2	18
APR												
18...	--	120	19	9	5.9	1.0	3.7	29	.4	--	1.0	10
MAY												
16...	--	230	29	8	9.2	1.4	5.3	28	.4	--	1.0	21
JUN												
10...	--	55	37	13	12	1.8	8.2	31	.6	--	1.5	24
JUL												
09...	--	120	37	4	12	1.8	8.2	31	.6	--	1.5	33
AUG												
12...	--	130	40	5	13	1.9	8.4	30	.6	--	1.7	35
SEP												
04...	--	80	46	15	15	2.1	9.5	30	.6	--	1.8	31

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 11...	8.5	8.6	.1	5.6	62	51	.08	3230	78	.21	.24	.11
NOV 19...	10	9.6	.1	6.3	73	58	.10	2050	44	.29	.73	.15
DEC 14...	11	9.3	.1	6.2	61	61	.08	2540	72	.35	.42	.08
JAN 15...	11	8.6	.1	6.4	59	62	.08	1980	68	.41	.41	.13
FEB 15...	14	12	.1	5.9	68	71	.09	868	78	.21	.20	.17
MAR 18...	11	13	.1	5.1	83	66	.11	3790	83	.62	.60	.27
APR 18...	7.5	5.0	.0	4.8	38	36	.05	4600	74	.35	.32	.06
MAY 16...	9.5	6.9	.1	5.1	53	53	.07	2990	76	.27	.35	.00
JUN 10...	11	10	.1	4.5	88	66	.12	2660	95	.45	.46	.15
JUL 09...	11	12	.1	3.7	82	72	.11	1080	62	.42	.43	.08
AUG 12...	11	11	.1	3.4	73	72	.10	1170	77	.23	.19	.20
SEP 04...	12	12	.1	2.2	78	75	.11	1440	85	.28	.27	.07

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 11...	.12	.13	.15	.26	.48	.37	.00	.60	.58	.84	2.6	.060
NOV 19...	.08	.18	.10	.45	.44	.60	.08	.52	.89	1.3	3.9	.100
DEC 14...	.00	.10	.00	.32	.27	.40	.13	.27	.75	.69	3.3	.050
JAN 15...	.02	.16	.03	.42	.41	.55	.12	.43	.96	.84	4.3	.040
FEB 15...	.21	.21	.27	.30	.23	.47	.03	.44	.68	.64	3.0	.090
MAR 18...	.18	.33	.23	.50	.67	.77	.00	.85	1.4	1.5	6.2	.400
APR 18...	.08	.07	.10	.10	.19	.16	.00	.27	.51	.59	2.3	.050
MAY 16...	.05	.00	.06	.17	.00	.17	.15	.02	.44	.37	1.9	.030
JUN 10...	.12	.18	.15	.38	.30	.53	.11	.42	.98	.88	4.3	.080
JUL 09...	--	.10	--	.46	--	.54	.26	.28	.96	.71	4.3	.110
AUG 12...	.14	.24	.18	.12	.14	.32	.04	.28	.55	.47	2.4	.120
SEP 04...	.02	.08	.03	.45	.08	.52	.42	.10	.80	.37	3.5	.140

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 11...	.18	.040	1	0	1	100	100	0	0	0	2	20
NOV 19...	.31	.070	--	--	--	--	--	--	--	--	--	--
DEC 14...	.15	.040	--	--	--	--	--	--	--	--	--	--
JAN 15...	.12	.030	1	0	1	<50	<30	20	1	1	0	10
FEB 15...	.28	.070	--	--	--	--	--	--	--	--	--	--
MAR 18...	1.2	.110	--	--	--	--	--	--	--	--	--	--
APR 18...	.15	.010	0	0	0	<50	--	20	0	0	0	20
MAY 16...	.09	.030	--	--	--	--	--	--	--	--	--	--
JUN 10...	.25	.050	--	--	--	--	--	--	--	--	--	--
JUL 09...	.34	.010	0	0	0	100	--	<50	0	0	0	<10
AUG 12...	.37	.050	--	--	--	--	--	--	--	--	--	--
SEP 04...	.43	.060	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 11...	0	20	1	1	0	6	2	4	690	500	190	7
NOV 19...	--	--	--	--	--	--	--	24	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	5	--	--	--	--
JAN 15...	0	10	0	0	1	4	0	4	450	340	110	2
FEB 15...	--	--	--	--	--	--	--	4	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	9	--	--	--	--
APR 18...	10	10	0	0	0	4	2	2	780	690	90	3
MAY 16...	--	--	--	--	--	--	--	3	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	2	--	--	--	--
JUL 09...	--	10	0	0	0	8	1	7	240	190	50	0
AUG 12...	--	--	--	--	--	--	--	5	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	5	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDE RECov- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECov- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECov- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECov- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECov- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	MERCURY TOTAL RECov- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECov- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT 11...	3	4	50	30	20	1	0	1	.2	.0	.2	0
NOV 19...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	1	1	40	10	30	4	0	4	<.1	<.0	<.1	0
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	3	0	50	30	20	0	0	0	.1	.0	.1	0
MAY 16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	0	0	50	40	10	10	4	6	<.1	--	<.1	0
AUG 12...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECov- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECov- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECov- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECov- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 11...	0	0	0	0	0	20	10	10	4.7	4.5	.2	.00
NOV 19...	--	--	--	--	--	--	--	90	4.5	--	--	--
DEC 14...	--	--	0	--	--	--	--	30	4.3	--	--	--
JAN 15...	0	0	0	0	0	340	300	40	3.6	3.1	.5	.00
FEB 15...	--	--	--	--	--	--	--	20	3.5	--	--	--
MAR 18...	--	--	0	--	--	--	--	9	5.0	--	--	--
APR 18...	0	0	0	0	0	10	0	10	3.8	3.3	.5	.10
MAY 16...	--	--	--	--	--	--	--	0	3.0	--	--	--
JUN 10...	--	--	0	--	--	--	--	3	3.2	--	--	--
JUL 09...	0	0	0	0	0	0	0	0	3.7	3.0	.7	.00
AUG 12...	--	--	--	--	--	--	--	0	12	--	--	--
SEP 04...	--	--	0	--	--	--	--	10	5.4	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

CONNECTICUT RIVER BASIN

137

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 11...	--	.000	.000
NOV 19...	5000	--	--
JAN 15...	--	.000	.000
MAR 18...	720	--	--
APR 18...	--	.000	.000
MAY 16...	4100	--	--
JUN 10...	5300	--	--
JUL 09...	17000	23.9	2.25
AUG 12...	21000	--	--
SEP 04...	32000	--	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
MAR 18...	1000	<.8	1.6	<.5	1.1	2.7	1.5	2.7	1.5	.04	.05

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 11...	1000	19300	16	834	96	APR 18...	1015	44800	34	4110	59
NOV 19...	0930	10400	4	112	91	MAY 16...	0900	20900	10	564	100
DEC 14...	1030	15400	2	83	100	JUN 10...	1030	11200	9	272	100
JAN 15...	1015	12400	11	368	84	JUL 09...	1000	4870	5	66	100
FEB 15...	0915	4730	6	77	69	AUG 12...	0900	5940	11	176	71
MAR 18...	1000	16900	55	2510	97	SEP 04...	0900	6830	11	203	97

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO OCTOBER 1980

PERIPHYTON

(sampling method - Polyethylene Strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQM)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQM)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	BIOMASS CHLOROPHYLL RATIO PERI- PHYTON (UNITS)
February 15 to March 18	33	4.33	4.09	0.010	0.000	24000
May 16 to June 10	26	11.2	8.98	23.4	3.69	94.9

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	NOV 19,79 0930	MAR 18,80 1000	MAY 16,80 0900	JUN 10,80 1030
TOTAL CELLS/ML	5000	720	4100	5300
DIVERSITY: DIVISION	0.3	1.2	1.3	1.6
...CLASS	0.3	1.2	1.6	1.7
...ORDER	0.9	1.3	2.2	2.2
...FAMILY	0.9	2.3	3.1	2.7
...GENUS	1.3	2.4	3.7	3.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
...SCHROEDERIA	--	-	13	2	--	-	--	-
...COELASTRACEAE							230	4
...COELASTRUM	--	-			--	-	--	-
...HYDRODICTYACEAE							--	-
...PEDIATRUM	--	-			--	-	--	-
...MICRACTINIACEAE							--	-
...GOLFNKINIA	--	-			--	-	--	-
...MICRACTINIUM	--	-			--	-	92	2
...OOCYSTACEAE								
...ANKISTRODESMUS	* 0		--	-	200	5	370	7
...CHODATELLA	29	1	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-			350	9	600	11
...FRANCEIA	--	-			--	-	--	-
...KIRCHNERIELLA	--	-			200	5	--	-
...SELENASTRUM	--	-			--	-	--	-
...TETRAEDRON	--	-			22	1	--	-
...TREUBARIA	--	-			--	-	--	-
...WESTELLA	--	-			--	-	180	3
...SCENEDESMACEAE							--	-
...ACTINASTRUM	--	-			--	-	--	-
...SCENEDESMUS	72	1	--	-	740#	18	180	3
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	13	2	87	2	160	3
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
...CYCLOTELLA	86	2	13	2	570	14	780	15
...MELOSIRA	--	-	--	-	610	15	920#	17
..PENNALES								
...ACHNANTHACEAE								
...ACHNANTHES	* 0		65	9	44	1	--	-
...RHOICOSPHENIA	--	-	26	4	--	-	--	-
...CYMBELLACEAE								
...CYMBELLA	--	-	--	-	22	1	--	-
...DIATOMACEAE								
...DIATOMA	--	-	13	2	--	-	--	-
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	--	-	--	-	180	3
...FRAGILARIA	--	-	26	4	130	3	46	1
...SYNEDRA	--	-	--	-	87	2	69	1
...GOMPHONEMACEAE								
...GOMPHONEMA	--	-	--	-	22	1	* 0	
...NAVICULACEAE								
...NAVICULA	--	-	77	11	220	5	46	1
...NITZSCHIA								
...NITZSCHIA	* 0		170#	23	150	4	46	1
...SURIPELLACEAE								
...SURIPELLA	--	-	--	-	44	1	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...MALLOMONADACEAE								
...MALLOMONAS	--	-	--	-	110	3	--	-
...OCHROMONADACEAE								
...DINOBYRON	--	-	--	-	220	5	* 0	
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	--	-	--	-	--	-	69	1
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	--	-	44	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	NOV 19,79 0930		MAR 18,80 1000		MAY 16,80 0900		JUN 10,80 1030	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHAMAESIPHONALES								
...CHAMAESIPHONACEAE								
....ENTOPHYSALIS	720	14	--	-	--	-	--	-
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	1200#	23
...HORMOGONALES								
...OSCILLATORIAEAE								
....LYNGBYA	290	6	--	-	240	6	--	-
....OSCILLATORIA	3700#	75	310#	43	--	-	92	2
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	JUL 9.80 1000	AUG 12.80 0900	SEP 4.80 0900
TOTAL CELLS/ML	17000	21000	32000
DIVERSITY: DIVISION	1.0	1.1	1.3
..CLASS	1.0	1.1	1.3
...ORDER	1.4	1.5	1.4
...FAMILY	1.6	1.6	1.4
....GENUS	2.2	1.8	1.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	470	2	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	200	1
...MICRACTINIUM	370	2	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	120	1	160	1	--	-
...CHODATELLA	120	1	--	-	--	-
...DICTYOSPHAERIUM	620	4	*	0	--	-
...FRANCEIA	250	1	--	-	--	-
...KIRCHNERIELLA	250	1	--	-	--	-
...SELENASTRUM	--	-	*	0	--	-
...TETRAEDRON	--	-	--	-	--	-
...TREUBARIA	--	-	*	0	--	-
...WESTELLA	990	6	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	310	1	1600	5
...SCENEDESMUS	500	3	160	1	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	620	4	*	0	400	1
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	11000#	63	2200	10	17000#	53
...MELOSIRA	990	6	2800	13	3000	9
...PENNALES						
....ACHNANTHACEAE						
...ACHNANTHES	--	-	--	-	--	-
...RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
...FRAGILARIA	--	-	--	-	--	-
...SYNEDRA	120	1	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
...NITZSCHACEAE						
....NITZSCHIA	620	4	*	0	--	-
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CHRYSOPHYCEAE						
...CHRYSONOMADALES						
...MALLONADACEAE						
....MALLOMONAS	--	-	--	-	--	-
...OCHROMONADACEAE						
....DINOBYRON	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	JUL 9,80 1000		AUG 12,80 0900		SEP 4,80 0900	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHAMAESIPHONALES						
...CHAMAESIPHONACEAE						
....ENTOPHYSALIS	--	-	--	-	--	-
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	740	4	1200	6	9400#	30
...HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	--	-	13000#	64	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	200	1
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	*	0	200	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.5	.5	.5	1.0	.5	.5	5.0	3.5	4.5	---	---	---
2	.5	.5	.5	.5	.0	.5	---	---	---	---	---	---
3	1.0	.5	.5	1.0	.0	.5	---	---	---	---	---	---
4	1.0	.5	.5	1.0	.0	.5	---	---	---	---	---	---
5	1.0	.5	.5	1.5	.5	1.0	---	---	---	---	---	---
6	1.0	.5	.5	2.5	1.0	2.0	---	---	---	---	---	---
7	.5	.5	.5	3.5	1.5	2.5	---	---	---	---	---	---
8	1.0	.5	.5	3.5	2.5	3.5	---	---	---	---	---	---
9	1.0	.5	.5	4.5	2.0	3.5	---	---	---	---	---	---
10	1.0	.5	.5	5.0	3.0	4.0	---	---	---	---	---	---
11	1.0	.5	.5	5.0	3.0	4.0	---	---	---	---	---	---
12	1.5	.5	1.0	3.0	2.5	3.0	---	---	---	---	---	---
13	1.5	.5	1.0	3.0	2.0	2.5	---	---	---	15.5	14.5	15.0
14	1.5	1.0	1.5	2.5	2.0	2.5	---	---	---	16.0	14.5	15.5
15	2.0	1.5	1.5	3.0	2.5	2.5	---	---	---	15.5	15.0	15.0
16	2.0	.5	1.0	3.0	2.0	2.5	---	---	---	16.0	14.5	15.5
17	1.0	.0	.5	4.5	2.5	3.5	---	---	---	16.5	15.0	16.0
18	1.5	.5	1.0	5.5	3.5	4.5	---	---	---	16.0	16.0	16.0
19	1.5	.5	1.0	4.0	2.0	3.0	---	---	---	17.0	15.5	16.5
20	2.0	.5	1.5	4.0	1.5	3.5	---	---	---	18.0	16.5	17.5
21	2.5	1.5	2.0	4.0	2.5	3.5	---	---	---	17.5	16.5	17.0
22	2.0	1.5	1.5	3.5	1.5	2.0	---	---	---	18.0	16.5	17.0
23	2.5	1.5	2.0	3.5	1.0	2.0	---	---	---	19.0	17.0	18.5
24	2.5	2.0	2.5	3.5	1.5	3.0	---	---	---	19.5	18.5	19.0
25	3.5	2.5	3.0	3.5	2.5	3.0	---	---	---	20.0	19.0	19.5
26	3.5	2.5	3.0	3.5	2.0	2.5	---	---	---	20.0	18.5	19.0
27	2.5	1.5	1.5	4.0	2.0	3.0	---	---	---	20.0	19.0	19.5
28	2.0	1.5	1.5	5.0	3.0	4.0	---	---	---	20.5	19.5	20.0
29	1.5	1.0	1.5	5.5	4.0	4.5	---	---	---	21.0	19.5	20.5
30	---	---	---	5.0	3.5	4.5	---	---	---	21.5	19.5	20.5
31	---	---	---	5.0	2.0	4.5	---	---	---	21.0	19.5	20.5
MONTH	3.5	.0	1.0	5.5	.0	3.0	5.0	3.5	4.5	21.5	14.5	18.0

CONNECTICUT RIVER BASIN

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01184500 SCANTIC RIVER AT BROAD BROOK, CT

LOCATION.--Lat 41°54'42", long 72°33'48", Hartford County, Hydrologic Unit 01080205, on left bank 300 ft (91 m) upstream from bridge on State Highway 191, 0.5 mi (0.8 km) downstream from Broad Brook, 1 mi (2 km) southwest of village of Broad Brook, 8.2 mi (13.2 km) upstream from mouth.

DRAINAGE AREA.--98.2 mi² (254.3 km²).

PERIOD OF RECORD.--Water years 1952-60, 1968, 1975 to April 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to April 1980 (discontinued).

WATER TEMPERATURES: October 1953 to September 1960, October 1968 to September 1969, October 1974 to April 1980 (discontinued).

SUSPENDED SEDIMENT DISCHARGE: November 1952 to July 1960.

INSTRUMENTATION.--Water-quality monitor since October 1974.

REMARKS.--Records of daily discharge from August 1928 to September 1971 in reports of the U.S. Geological Survey. Occasional low-flow measurements and annual maximum from October 1971 to April 1980 (see pages). Interruptions in the water-quality record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 340 micromhos Feb. 28, 1976; minimum, 38 micromhos Dec. 1, 1975.

WATER TEMPERATURES: Maximum, 29.5°C June 18, 1957; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 721 mg/L Oct. 16, 1955; minimum daily mean, 1 mg/L Jan. 22, 23, 1953, Dec. 15, 1954, Nov. 22, 1959.

SEDIMENT LOADS: Maximum daily, 6,670 tons, estimated (6,050 tonnes, estimated) Aug. 19, 1955; minimum daily, 0.2 tons (0.2 tonnes) Aug. 23, 1953, July 25, 1954, Aug. 4, 1955, Oct. 26, 1956.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 295 micromhos February 24; minimum, 74 micromhos April 11.

WATER TEMPERATURES: Maximum, 17.5°C October 2, 5-6; minimum, 0.0°C on several days in winter.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	174	167	171	211	204	206	202	198	200	197	192	194
2	185	165	171	225	218	222	207	202	205	203	197	199
3	209	176	197	235	207	224	208	206	207	207	202	205
4	197	131	166	209	193	202	212	208	209	208	204	206
5	131	115	125	191	162	172	214	211	212	213	206	209
6	121	100	113	175	163	169	215	212	213	222	210	214
7	135	123	130	189	175	183	214	206	211	224	217	222
8	129	116	122	203	187	197	206	193	199	221	215	217
9	134	122	129	206	201	204	193	177	182	221	214	217
10	140	135	137	208	204	205	193	181	187	227	215	221
11	140	135	139	210	204	207	199	193	197	223	218	221
12	141	137	139	206	188	199	202	198	200	223	198	205
13	140	136	139	191	184	188	204	197	200	198	179	189
14	146	137	142	181	176	178	207	203	205	178	175	177
15	151	144	148	185	178	181	208	204	206	187	178	185
16	158	149	153	192	185	188	213	209	210	191	187	189
17	166	157	162	199	192	195	226	210	218	196	189	193
18	171	165	168	202	199	200	208	186	195	203	196	200
19	178	160	168	206	202	204	190	185	188	209	202	206
20	191	173	180	208	206	207	199	189	194	209	206	207
21	185	128	150	211	207	209	209	199	203	209	206	208
22	136	128	132	213	210	211	209	206	207	211	207	209
23	137	129	133	211	208	210	209	203	207	219	210	216
24	181	85	139	212	208	210	204	202	203	220	215	217
25	99	94	97	208	204	206	202	182	195	232	217	224
26	116	110	112	209	205	207	179	166	173	226	221	223
27	142	129	138	210	200	205	166	152	158	228	223	226
28	158	154	156	202	187	198	161	152	156	231	227	229
29	173	168	171	188	184	186	175	162	168	231	228	230
30	186	181	183	198	189	193	186	175	180	239	229	233
31	198	195	197	---	---	---	193	186	189	241	235	238
MONTH	209	85	149	235	162	199	226	152	196	241	175	211

CONNECTICUT RIVER BASIN

01184500 SCANTIC RIVER AT BROAD BROOK, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980.--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	246	237	242	239	230	235	122	118	120			
2	252	246	249	235	232	234	128	120	124			
3	257	251	254	241	234	238	168	128	134			
4	255	252	254	243	233	238	169	128	143			
5	253	250	252	237	232	234	136	121	129			
6	254	250	252	247	237	244	119	116	117			
7	251	249	250	248	228	239	126	119	123			
8	255	249	251	227	213	220	133	126	131			
9	255	247	251	210	172	191	137	128	135			
10	250	245	248	171	165	168	118	86	95			
11	252	238	246	170	134	148	85	74	77			
12	241	235	238	137	124	132	97	80	89			
13	238	233	235	133	119	125	112	97	105			
14	239	233	236	156	133	142	120	112	116			
15	239	234	236	170	156	164	123	120	122			
16	234	231	233	170	164	168	124	121	122			
17	235	230	233	177	164	173	127	124	125			
18	237	233	235	158	123	133	134	128	131			
19	239	233	237	122	100	109	138	134	137			
20	238	233	235	112	100	105	143	137	141			
21	234	224	230	125	113	119	147	141	145			
22	231	222	227	122	101	108	151	145	149			
23	279	230	256	100	89	93	151	148	149			
24	295	231	263	103	91	97	---	---	---			
25	230	221	225	112	103	108	---	---	---			
26	226	223	224	114	111	113	---	---	---			
27	228	221	226	117	114	115	---	---	---			
28	230	217	224	128	117	121	---	---	---			
29	234	220	227	129	126	127	---	---	---			
30	---	---	---	132	127	129	---	---	---			
31	---	---	---	126	120	124	---	---	---			
MONTH	295	217	240	248	89	158	169	74	124			

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

01184500 SCANTIC RIVER AT BROAD BROOK, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.5	.5	.5	.5	.0	.0	6.5	4.0	5.5			
2	.5	.5	.5	.5	.0	.0	6.5	5.5	6.0			
3	.5	.5	.5	.5	.0	.0	7.0	4.5	6.0			
4	.5	.5	.5	1.0	.0	.5	7.5	6.0	6.5			
5	.5	.5	.5	.5	.0	.5	7.5	6.0	6.5			
6	.5	.5	.5	2.0	.0	1.0	8.5	5.5	7.0			
7	.5	.5	.5	3.0	1.0	2.0	10.0	7.0	8.5			
8	1.0	.5	.5	3.5	2.5	3.0	10.0	8.5	9.0			
9	1.0	.5	.5	3.0	2.0	2.5	9.5	8.5	9.0			
10	1.0	.5	.5	3.0	1.5	2.5	10.5	9.5	10.0			
11	.5	.5	.5	3.5	1.5	2.5	12.0	10.0	11.0			
12	1.0	.5	.5	1.0	.0	.5	12.0	10.5	11.5			
13	1.0	.5	.5	.5	.0	.5	13.0	11.0	12.0			
14	1.0	.5	.5	.5	.0	.5	12.5	10.5	11.5			
15	1.0	.5	.5	2.0	.5	1.0	13.0	10.0	11.5			
16	.5	.5	.5	2.0	.5	1.5	12.5	11.0	12.0			
17	.5	.0	.0	4.5	1.5	3.0	11.0	9.0	10.0			
18	.5	.0	.0	4.5	3.0	4.0	10.5	8.5	10.0			
19	.5	.0	.5	3.0	1.0	2.0	12.0	9.0	10.5			
20	1.0	.0	.5	5.0	2.0	3.5	13.5	10.5	12.0			
21	1.0	.5	.5	5.5	4.5	5.0	14.5	12.0	13.5			
22	.5	.5	.5	6.0	3.0	4.0	14.0	12.0	13.0			
23	1.5	.5	1.0	4.0	1.5	2.5	12.0	10.5	11.5			
24	1.5	1.0	1.0	5.5	3.0	4.0	---	---	---			
25	2.0	.5	1.5	5.5	5.0	5.0	---	---	---			
26	2.0	.5	1.5	5.5	4.0	5.0	---	---	---			
27	.5	.0	.5	5.5	4.0	5.0	---	---	---			
28	.5	.0	.0	7.0	4.5	6.0	---	---	---			
29	.5	.0	.0	7.0	6.0	6.5	---	---	---			
30	---	---	---	7.0	6.0	6.5	---	---	---			
31	---	---	---	6.5	5.5	5.5	---	---	---			
MONTH	2.0	.0	.5	7.0	.0	3.0	14.5	4.0	9.5			

CONNECTICUT RIVER BASIN

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT

LOCATION.--41°57'46", long 73°01'05", Litchfield County, Hydrologic Unit 01080207, on right bank at downstream side of bridge on State Highway 20 at Riverton, 0.3 mi (0.5 km) upstream from Still River, 2.0 mi (3.2 km) downstream from Goodwin Dam of West Branch Reservoir, and at mile 55.0 (88.5 km).

DRAINAGE AREA.--131 mi² (339 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WSP 1501: 1956. WSP 1551: 1957. WSP 1701: 1958-59.

GAGE.--Water-stage recorder. Datum of gage is 485.60 ft (148.011 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 29, 1957, nonrecording gage at same site and datum.

REMARKS.--Records excellent. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake (see p. 222).

AVERAGE DISCHARGE (adjusted for storage).--25 years, 252 ft³/s (7,137 m³/s), 26.15 in/yr (664 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 10,600 ft³/s (300 m³/s) Oct. 16, 1955, gage height, 12.47 ft (3.801 m); minimum discharge, 0.9 ft³/s (0.026 m³/s) July 21, 1960; minimum gage height, 2.43 ft (0.741 m) Sept. 16, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 21.1 ft (6.431 m), from floodmarks, discharge, 57,200 ft³/s (162 m³/s), by slope-area measurement 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) Mar. 21, gage height, 6.95 ft (2.118 m); minimum daily, 50 ft³/s (1.42 m³/s) Feb. 15-20, 23-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	135	230	145	170	56	930	533	108	414	189	293
2	170	179	235	163	170	56	1020	512	112	411	250	283
3	165	356	229	230	160	56	924	350	124	404	253	289
4	180	323	241	358	150	56	664	244	110	393	244	289
5	301	314	235	390	130	56	529	244	81	400	239	268
6	473	311	241	390	110	53	508	247	268	404	236	239
7	477	285	263	390	75	51	635	228	425	407	233	239
8	471	208	261	400	70	61	743	207	414	323	253	233
9	328	215	239	400	65	62	533	194	404	207	296	233
10	170	235	246	366	60	55	440	194	411	433	293	231
11	233	233	414	418	58	113	357	194	330	440	296	231
12	244	248	520	485	55	73	578	194	194	244	283	231
13	249	227	334	424	54	57	560	181	418	127	274	228
14	243	228	209	419	52	65	436	169	425	125	277	225
15	233	244	204	412	49	56	367	153	440	129	280	147
16	220	243	202	407	50	70	727	149	448	137	271	112
17	218	244	335	407	50	57	959	145	418	131	259	116
18	221	240	300	396	50	162	867	147	382	127	286	120
19	244	243	270	393	50	99	367	143	360	131	299	112
20	309	245	230	300	51	85	364	141	364	135	283	108
21	314	250	200	200	51	469	695	147	360	141	274	108
22	315	278	171	190	50	727	1050	135	378	131	274	108
23	315	276	174	190	49	160	1050	129	378	129	286	110
24	318	271	176	190	49	137	1020	129	374	129	280	110
25	309	272	271	185	49	139	1010	125	382	133	280	116
26	306	343	222	189	52	151	996	122	407	141	283	112
27	306	349	152	192	54	196	884	122	411	145	283	118
28	306	287	146	192	54	277	309	120	404	233	283	116
29	307	233	107	190	55	271	491	120	436	306	283	114
30	306	232	127	180	---	306	533	118	455	277	286	114
31	265	---	136	170	---	542	---	106	---	162	286	---
TOTAL	8693	7747	7320	9381	2142	4774	20546	5942	10221	7449	8392	5353
MEAN	280	258	236	303	73.9	154	685	192	341	240	271	178
MAX	477	356	520	485	170	727	1050	533	455	440	299	293
MIN	165	135	107	145	49	51	309	106	81	125	189	108
(†)	+71.0	+93.0	+39.4	-136.5	-27.5	+598.1	+28.1	-30.4	-275	-190.6	-251.3	-162.9
MEAN†	351	351	275	166	46.4	752	713	162	66.0	49.4	19.7	15.1
CFSM†	2.68	2.68	2.10	1.27	0.35	5.74	5.44	1.24	0.50	0.38	0.15	0.12
IN†	3.09	2.99	2.42	1.46	0.38	6.62	6.07	1.43	0.56	0.44	0.17	0.13

CAL YR 1979 TOTAL 112727 MEAN 309 MAX 1270 MIN 59 MEAN† 354 CFSM† 2.70 IN† 37.10
WTR YR 1980 TOTAL 97960 MEAN 268 MAX 1050 MIN 49 MEAN† 248 CFSM† 1.89 IN† 25.76

† Change in contents in Otis and West Branch Reservoirs and Colebrook River Lake, equivalent in cubic feet per second; records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks, Hartford Metropolitan District Commission, and Corps of Engineers.

‡ Adjusted for change in contents.

CONNECTICUT RIVER BASIN

149

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1955, 1975 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1975 to September 1978.

WATER TEMPERATURES: January 1975 to September 1980 (discontinued).

INSTRUMENTATION.--Water-quality monitor since January 1975.

REMARKS.--Interruptions in the record are due to malfunction of the instrument.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 130 micromhos May 23, 1978; minimum, 34 micromhos Sept. 26, 1975.

WATER TEMPERATURES: Maximum, 24.0°C July 23, 1978 and July 27, 1979; minimum, 0.0°C 1975-78 on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 23.0°C Sept. 22; minimum, 0.0°C many times during the winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.0	16.5	17.0	---	---	---	---	---	---	4.0	2.0	3.0
2	19.0	16.5	17.0	13.5	11.0	12.5	---	---	---	3.5	2.0	3.0
3	17.5	16.5	17.0	---	---	---	---	---	---	3.5	2.0	2.5
4	18.5	16.5	17.0	---	---	---	---	---	---	2.5	1.5	2.0
5	18.5	17.0	17.5	---	---	---	---	---	---	2.5	1.5	2.5
6	18.0	16.5	17.0	---	---	---	---	---	---	2.5	1.5	1.5
7	17.0	16.5	16.5	---	---	---	---	---	---	2.5	1.5	2.5
8	16.5	15.5	16.0	---	---	---	---	---	---	3.0	1.5	2.0
9	16.0	14.0	15.5	---	---	---	---	---	---	2.5	1.5	2.0
10	14.0	13.0	13.5	---	---	---	---	---	---	2.5	1.5	2.0
11	14.5	13.5	14.0	---	---	---	---	---	---	3.5	2.0	2.5
12	14.0	13.5	13.5	---	---	---	---	---	---	3.0	.5	2.0
13	14.5	13.0	14.0	---	---	---	---	---	---	2.0	1.0	1.5
14	14.5	13.0	13.5	---	---	---	---	---	---	2.5	2.0	2.0
15	14.0	12.5	13.5	---	---	---	---	---	---	3.0	2.0	2.5
16	15.0	12.5	13.5	---	---	---	---	---	---	3.0	2.0	2.0
17	14.5	13.0	13.5	---	---	---	---	---	---	2.5	1.5	2.0
18	15.0	12.0	14.0	---	---	---	---	---	---	3.0	2.0	2.5
19	---	---	---	---	---	---	3.5	3.5	3.5	3.0	2.5	2.5
20	---	---	---	---	---	---	4.0	3.0	3.5	2.5	1.5	2.0
21	---	---	---	---	---	---	4.0	3.5	3.5	2.5	.5	1.5
22	---	---	---	---	---	---	4.5	3.5	4.0	2.0	.5	1.5
23	---	---	---	---	---	---	5.5	4.0	4.5	2.5	.5	1.5
24	---	---	---	---	---	---	5.0	4.0	4.5	1.0	.0	.5
25	---	---	---	---	---	---	5.0	4.5	4.5	1.5	.0	.5
26	---	---	---	---	---	---	4.5	3.5	4.0	2.0	.5	1.0
27	---	---	---	---	---	---	4.0	3.0	3.5	2.5	1.0	1.5
28	---	---	---	---	---	---	4.0	2.0	3.0	2.5	.5	1.0
29	---	---	---	---	---	---	4.5	2.5	3.5	2.0	.5	1.0
30	---	---	---	---	---	---	4.5	2.5	4.0	1.5	.0	.5
31	---	---	---	---	---	---	4.0	2.0	3.0	1.5	.0	.5
MONTH	19.0	12.0	15.0	13.5	11.0	12.5	5.5	2.0	4.0	4.0	.0	2.0

CONNECTICUT RIVER BASIN

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	.5	2.0	.0	.5	3.5	2.5	3.0	9.0	7.0	8.0
2	1.0	.0	.5	3.5	.0	1.0	3.5	2.5	3.0	10.5	7.5	8.5
3	1.0	.0	.5	4.0	.0	1.5	4.0	2.0	3.5	12.0	7.0	9.0
4	1.5	.0	.5	5.0	.0	2.0	3.5	3.0	3.5	11.0	7.5	9.0
5	1.5	.0	.5	2.5	1.0	2.0	4.5	3.0	3.5	12.0	7.5	9.5
6	2.0	.0	1.0	5.5	1.0	2.5	5.5	3.0	4.0	12.5	8.0	9.5
7	1.5	.5	1.0	6.0	1.0	3.0	5.0	3.0	4.0	11.5	8.0	9.5
8	3.0	.0	1.0	2.5	2.0	2.5	4.5	4.0	4.0	10.5	8.5	9.5
9	3.0	.0	1.0	5.0	1.0	2.5	5.0	4.0	4.5	12.0	8.0	9.5
10	3.0	.0	1.0	6.5	.5	3.0	7.0	5.0	6.0	11.5	8.0	9.5
11	3.0	.0	1.0	2.5	.0	1.0	8.5	5.0	6.0	9.5	8.5	9.0
12	3.0	.5	1.0	4.5	.0	1.5	6.0	4.5	5.0	11.5	9.0	10.0
13	3.0	.0	1.0	3.5	.0	1.5	7.0	5.0	5.5	13.0	10.5	11.5
14	4.0	.0	1.5	2.5	.0	1.0	5.5	5.0	5.0	13.0	10.5	11.5
15	3.5	.0	1.5	4.0	.0	1.5	9.0	5.5	7.0	12.5	9.5	10.5
16	1.0	.0	.5	6.0	.0	2.0	6.0	4.5	5.5	14.0	8.5	11.0
17	2.0	.0	.5	5.0	1.0	3.0	6.0	4.0	5.0	15.0	9.0	11.0
18	2.5	.0	.5	2.5	.0	1.0	6.0	5.0	5.5	11.0	9.5	10.5
19	4.0	.0	1.5	5.0	.0	1.5	8.0	4.5	6.0	13.5	10.0	11.5
20	4.5	.0	2.0	6.5	.5	2.5	9.0	5.5	6.5	15.5	11.5	12.5
21	5.0	1.5	2.5	2.5	.5	1.5	8.0	5.5	7.0	13.0	11.0	12.0
22	2.0	1.0	1.5	1.5	.0	.5	7.0	5.5	6.5	16.0	11.5	13.5
23	4.0	1.5	2.5	5.0	.0	2.0	7.5	6.0	6.5	17.0	12.5	14.5
24	3.5	1.5	2.5	4.5	.5	2.5	8.0	6.0	7.0	17.0	12.5	14.5
25	5.5	1.0	2.5	2.5	1.0	1.5	7.5	6.5	7.0	18.0	11.5	14.0
26	3.5	.0	1.5	4.5	1.5	2.5	8.5	7.0	7.5	16.5	10.5	13.0
27	1.5	.0	.5	3.5	1.0	2.5	7.5	7.0	7.0	16.0	10.5	12.5
28	2.5	.0	1.0	5.0	2.0	3.0	7.0	6.5	7.0	16.0	10.0	12.5
29	2.0	.0	.5	3.5	2.5	3.0	7.0	6.5	7.0	16.0	10.0	12.5
30	---	---	---	3.5	2.5	3.0	9.0	7.0	7.5	15.5	10.0	12.5
31	---	---	---	3.0	2.0	2.5	---	---	---	14.5	11.0	12.5
MONTH	5.5	.0	1.0	6.5	.0	2.0	9.0	2.0	5.5	18.0	7.0	11.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	18.5	12.0	14.5	15.5	10.5	12.5	---	---	---	20.5	19.0	19.5
2	15.5	13.0	14.0	12.0	10.5	11.0	---	---	---	21.5	19.0	20.0
3	18.5	13.5	15.5	15.5	10.5	12.0	---	---	---	21.0	19.0	20.0
4	17.5	11.5	15.0	15.5	11.0	13.5	---	---	---	21.5	19.5	20.0
5	16.0	8.0	12.0	14.0	11.0	12.5	---	---	---	20.5	19.5	20.0
6	16.5	11.5	13.5	14.5	11.5	13.0	---	---	---	22.0	19.5	20.5
7	15.5	14.0	15.0	14.5	10.5	12.5	---	---	---	21.5	19.5	20.0
8	15.0	9.5	12.0	12.5	11.0	12.0	21.0	15.5	18.5	22.0	19.5	20.0
9	10.5	9.0	9.5	17.0	11.5	13.5	20.5	17.0	19.0	22.0	19.5	20.5
10	10.5	8.5	9.5	---	---	---	19.5	15.5	17.5	22.0	20.0	20.5
11	11.0	8.5	9.5	---	---	---	17.5	16.0	16.5	22.0	19.5	20.5
12	14.0	7.5	10.5	---	---	---	19.0	16.0	17.5	22.0	19.5	20.5
13	12.5	9.5	10.5	---	---	---	19.5	16.0	17.5	21.0	20.0	20.0
14	14.0	9.5	11.0	---	---	---	17.5	16.0	16.5	21.0	20.0	20.5
15	15.5	10.5	13.0	---	---	---	19.5	16.0	17.5	20.0	19.0	19.5
16	13.0	10.0	12.0	---	---	---	18.5	16.0	17.0	21.5	18.5	19.5
17	14.0	10.5	12.0	---	---	---	19.0	15.5	17.0	20.5	18.5	19.5
18	13.5	9.0	11.0	---	---	---	19.0	15.5	17.0	21.5	18.5	19.5
19	13.5	9.0	11.0	---	---	---	18.0	16.5	17.5	21.5	18.5	19.5
20	12.0	9.0	10.5	---	---	---	18.0	16.5	17.5	21.0	18.5	19.5
21	13.0	11.0	12.0	---	---	---	18.0	16.5	17.0	22.0	19.0	20.0
22	14.5	9.5	12.5	---	---	---	18.0	16.0	16.5	23.0	19.5	20.5
23	16.0	11.0	13.5	---	---	---	18.5	16.0	17.0	21.5	18.5	20.0
24	16.5	11.0	13.5	---	---	---	19.0	16.5	17.0	21.0	18.0	19.0
25	16.0	11.0	13.0	---	---	---	19.0	16.5	17.5	19.5	18.0	19.0
26	14.0	10.0	12.0	---	---	---	19.5	17.0	18.0	21.0	18.5	19.0
27	16.5	11.0	14.0	---	---	---	19.0	17.5	18.0	20.0	17.0	18.0
28	15.0	10.5	13.5	---	---	---	19.0	18.0	18.5	20.5	17.0	18.0
29	13.5	10.5	11.5	---	---	---	19.0	18.5	18.5	19.5	17.0	18.0
30	13.5	11.0	12.0	---	---	---	19.5	18.5	19.0	20.0	17.0	18.0
31	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
MONTH	18.5	7.5	12.5	17.0	10.5	12.5	21.0	15.5	17.5	23.0	17.0	19.5

CONNECTICUT RIVER BASIN

151

01186500 STILL RIVER AT ROBERTSVILLE, CT

LOCATION.--Lat 41°58'04", long 73°02'04", Litchfield County, Hydrologic Unit 01080207, on left bank 1,500 ft (457 m) downstream from Sandy Brook, 1 mi (2 km) southeast of Robertsville, 1 mi (2 km) northwest of Riverton, and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--84.7 mi² (219.4 km²).

PERIOD OF RECORD.--July 1948 to September 1967, July 1969 to current year.

REVISED RECORDS.--WSP 1901: 1948-60.

GAGE.--Water-stage recorder. Datum of gage is 510.24 ft (155.521 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake (see p. 222).

AVERAGE DISCHARGE (adjusted for storage).--30 years, 175 ft³/s (4.956 m³/s), 28.05 in/yr (712 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,000 ft³/s (1,250 m³/s) Aug. 19, 1955, gage height, 16.48 ft (5.023 m), from floodmark, from rating curve extended above 5,600 ft³/s (159 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.20 ft³/s (0.006 m³/s) Sept. 14, 1957; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 14, 1957; minimum gage height, 0.29 ft (0.088 m) Aug. 8, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,450 ft³/s (183 m³/s) Mar. 22, gage height, 8.88 ft (2.707 m); minimum, 5.3 ft³/s (0.15 m³/s) Sept. 15, gage height, 1.16 ft (0.354 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	110	207	151	45	33	325	341	33	163	16	9.4
2	560	103	179	141	40	32	270	283	42	86	15	7.9
3	526	363	148	130	40	32	244	244	44	72	37	7.9
4	606	353	143	117	39	31	409	219	68	41	31	10
5	336	226	133	107	38	32	461	173	40	38	26	9.4
6	426	185	133	105	37	32	325	127	38	51	25	12
7	272	164	248	100	37	32	276	117	51	42	24	11
8	200	138	206	91	45	124	276	154	60	33	20	35
9	195	138	153	95	55	156	464	152	57	27	17	67
10	251	184	162	140	45	107	2630	125	40	24	14	58
11	272	225	164	198	43	448	1180	113	42	22	42	55
12	323	288	153	554	54	224	792	106	38	21	106	50
13	351	242	144	291	42	130	620	113	33	18	90	19
14	256	219	137	212	47	98	449	113	30	16	79	11
15	213	188	127	179	47	90	695	99	27	15	22	7.9
16	185	157	129	154	46	89	524	90	66	22	18	8.9
17	182	141	190	134	45	120	386	80	52	36	15	53
18	173	134	160	128	43	1060	325	78	36	23	14	92
19	155	130	152	126	40	610	273	82	34	18	20	69
20	124	151	145	119	64	342	208	82	29	17	14	53
21	113	129	135	103	75	1770	187	87	27	32	18	38
22	114	117	126	85	66	3500	163	107	25	27	20	33
23	109	110	121	60	60	1400	154	89	23	27	14	15
24	133	107	137	66	64	1020	139	68	27	31	13	10
25	138	109	610	65	62	939	131	60	22	33	13	8.9
26	123	449	520	60	52	766	131	49	21	16	13	11
27	105	880	320	60	45	634	133	47	18	17	12	8.9
28	117	444	233	60	37	453	267	44	16	15	12	7.9
29	120	304	213	95	35	348	745	38	38	20	11	7.9
30	125	241	180	80	---	512	488	35	341	22	11	8.4
31	118	---	164	60	---	424	---	28	---	19	11	---
TOTAL	7222	6729	5972	4066	1388	15588	13670	3543	1418	1044	793	795.4
MEAN	233	224	193	131	47.9	503	456	114	47.3	33.7	25.6	26.5
MAX	606	880	610	554	75	3500	2630	341	341	163	106	92
MIN	105	103	121	60	35	31	131	28	16	15	11	7.9
(†)	-13.7	+0.5	-2.4	-2.3	+7.1	+23.8	-5.0	+2.7	+2.2	-6.0	-1.1	-14.7
MEAN†	219	224	191	129	55.0	527	451	117	49.5	27.7	24.5	11.8
CFSM†	2.59	2.64	2.26	1.52	0.65	6.22	5.32	1.38	0.58	0.33	0.29	0.14
IN†	2.99	2.94	2.61	1.75	0.70	7.17	5.94	1.59	0.64	0.38	0.33	0.16

CAL YR 1979 TOTAL 87734.1 MEAN 240 MAX 2650 MIN 7.8 MEAN† 239 CFSM† 2.82 IN† 38.42
WTR YR 1980 TOTAL 62228.4 MEAN 170 MAX 3500 MIN 7.9 MEAN† 169 CFSM† 2.00 IN† 27.20

† Change in contents, equivalent in cubic feet per second, in Mad River and Sucker Brook Detention Reservoirs and Highland Lake; contents of detention reservoirs furnished by Corps of Engineers.

‡ Adjusted for change in contents.

CONNECTICUT RIVER BASIN

01186800 STILL RIVER AT RIVERTON, CT

LOCATION.--Lat 41°57'34", long 73°01'12", Litchfield County, Hydrologic Unit 01080207, at bridge on State Highway 20, at Riverton, 0.1 mi (0.2 km) upstream from Farmington River, and 1.1 mi (1.8 km) downstream from Sandy Brook.

DRAINAGE AREA.--86.2 mi² (223.3 km²).

PERIOD OF RECORD.--Water years 1971, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01186500, 0.8 mi (1.3 km) upstream, and adjusting its discharge by multiplying by a factor of 1.02, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	0810	288	83	6.7	5.0	7.0	40	3.0	11.6	95	6300	--
NOV												
14...	0820	230	81	7.3	6.0	7.0	30	3.0	12.1	99	660	--
DEC												
12...	0755	153	84	6.4	4.0	3.0	20	2.0	14.0	104	1300	--
JAN												
16...	0810	158	84	6.5	.0	.5	10	3.0	14.4	100	4100	230
FEB												
13...	0850	33	142	7.2	-2.5	.5	5	2.0	13.3	93	1200	76
MAR												
19...	0930	632	67	7.1	6.5	1.0	15	5.0	14.2	100	140	60
APR												
16...	0840	555	65	7.1	6.5	7.0	5	2.0	9.1	75	40000	110
MAY												
14...	0800	119	87	6.9	20.0	15.0	9	2.0	11.2	109	130000	190
JUN												
11...	0830	43	108	6.9	10.5	12.5	15	3.0	10.5	98	1400	66
JUL												
09...	0800	31	112	7.1	20.0	18.0	15	1.0	10.8	114	3000	44
AUG												
13...	0755	92	97	6.6	21.5	21.0	5	2.0	8.3	92	5000	440
SEP												
03...	0800	7.1	190	6.8	20.0	20.0	5	1.0	7.8	85	720	24

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	72	40	22	8	5.7	1.8	14	7.1	12	5.3	53	.07
NOV												
14...	120	140	--	--	--	--	--	--	9.5	--	58	.08
DEC												
12...	56	56	--	--	--	--	--	--	9.6	--	54	.07
JAN												
16...	--	160	21	0	5.5	1.8	33	10	9.2	6.1	62	.08
FEB												
13...	--	660	--	--	--	--	--	--	20	--	78	.11
MAR												
19...	--	110	--	--	--	--	--	--	8.0	--	48	.07
APR												
16...	--	96	17	0	4.5	1.4	20	8.2	7.8	4.2	44	.06
MAY												
14...	--	190	--	--	--	--	--	--	10	--	60	.08
JUN												
11...	--	28	--	--	--	--	--	--	13	--	80	.11
JUL												
09...	--	K12	35	11	9.1	2.9	24	9.2	15	2.9	84	.11
AUG												
13...	--	170	--	--	--	--	--	--	12	--	62	.08
SEP												
03...	--	340	--	--	--	--	--	--	24	--	117	.16

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01186800 STILL RIVER AT RIVERTON, CT--Continued

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C. (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
12...	41.2	63	--	--	.13	.06	.07	.49	.55	.68	3.0
NOV											
14...	36.0	62	.16	.01	.17	.10	.12	.32	.42	.59	2.6
DEC											
12...	22.3	62	.18	.01	.19	.19	.23	.25	.44	.63	2.8
JAN											
16...	26.4	58	--	--	.22	.31	.38	.22	.53	.75	3.3
FEB											
13...	6.95	83	.29	.01	.30	.86	1.0	.44	1.3	1.6	7.1
MAR											
19...	81.9	48	.23	.01	.24	.15	.18	.27	.42	.66	2.9
APR											
16...	65.9	68	--	--	.14	.15	.18	.12	.27	.41	1.8
MAY											
14...	19.3	64	.28	.02	.30	.18	.22	.15	.33	.63	2.8
JUN											
11...	9.29	80	.95	.05	1.0	.35	.42	.32	.67	1.7	7.4
JUL											
09...	7.03	76	--	--	.94	.28	.34	.33	.61	1.6	6.9
AUG											
13...	15.4	66	.48	.01	.49	.05	.06	.23	.28	.77	3.4
SEP											
03...	2.24	123	2.8	.03	2.8	.02	.02	.33	.35	3.2	14

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
12...	.030	.09	4	210	20	0	7.0	.10	.000	.000
NOV										
14...	.050	.15	4	--	--	10	4.5	--	--	--
DEC										
12...	.090	.28	3	--	--	0	7.4	--	--	--
JAN										
16...	.060	.18	3	110	30	20	3.2	.00	.000	.000
FEB										
13...	.310	.95	5	--	--	10	3.1	--	--	--
MAR										
19...	.050	.15	3	--	--	10	3.9	--	--	--
APR										
16...	.030	.09	3	70	20	7	4.0	.10	.900	.000
MAY										
14...	.120	.37	3	--	--	10	5.7	--	--	--
JUN										
11...	.220	.67	6	--	--	10	2.6	--	--	--
JUL										
09...	.140	.43	7	220	20	2	4.1	.00	4.20	.000
AUG										
13...	.160	.49	7	--	--	20	7.8	--	--	--
SEP										
03...	.390	1.2	7	--	--	10	4.5	--	--	--

CONNECTICUT RIVER BASIN

01187300 HUBBARD RIVER NEAR WEST HARTLAND, CT

LOCATION.--Lat 42°02'14", long 72°56'22", Hartford County, Hydrologic Unit 01080207, on left bank at Massachusetts-Connecticut State line, 800 ft (244 m) upstream from bridge on State Highway 20, 0.5 mi (0.8 km) upstream from confluence with Valley Brook, and 2.6 mi (4.2 km) northeast of West Hartland.

DRAINAGE AREA.--20.7 mi² (53.6 km²), rev.

PERIOD OF RECORD.--January 1938 to September 1955, September 1956 to current year. Monthly discharge only for periods January 1938 to September 1955, October 1956 to September 1960, published in WSP 1721. Daily figures for the periods January 1938 to September 1955, September 1956 to September 1960, available upon request.

GAGE.--Water-stage recorder and stepped sharp-crested weir. Datum of gage is 594.62 ft (181.240 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Record good, except those for periods of no gage-height record on May 17 to Sept. 30, when weir was being repaired, which are fair.

COOPERATION.--Gage-height record furnished by Water Bureau, Metropolitan District Commission, Hartford, Connecticut.

AVERAGE DISCHARGE.--41 years, 39.4 ft³/s (1.116 m³/s), 26.89 in/yr (683 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s (297 m³/s) Aug. 19, 1955, gage height, 16.5 ft (5.03 m), from rating curve extended above 300 ft³/s (8.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.2 ft³/s (0.006 m³/s) Sept. 10, 1953, Aug. 16-21, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*):

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)
Nov. 26	2400	625 17.7	5.15 1.570	Mar. 21	2230	*4710 133	*11.21 3.417
Mar. 18	1000	700 19.8	5.40 1.646	Apr. 10	0300	1620 45.9	7.50 2.286

Minimum daily discharge, about 0.55 ft³/s (0.016 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	14	50	28	8.6	6.0	37	46	3.0	15	1.4	.75
2	150	14	41	28	8.0	5.5	28	32	4.0	10	1.2	.65
3	94	94	33	25	7.5	5.0	24	25	5.0	8.0	3.5	.65
4	104	87	31	21	7.0	4.1	57	21	7.5	5.0	3.0	.80
5	72	55	29	20	6.5	3.8	54	17	4.5	4.0	2.5	.70
6	110	38	28	18	6.0	3.8	35	14	4.0	5.5	2.4	.85
7	67	31	66	17	5.7	4.0	30	13	5.5	4.0	2.2	.80
8	46	27	53	16	6.5	14	22	18	6.5	3.0	1.8	3.0
9	41	24	34	16	6.5	33	57	17	6.0	2.5	1.4	7.0
10	56	38	29	15	6.0	21	691	13	4.0	2.2	1.2	6.5
11	54	54	28	30	6.0	143	126	12	4.5	2.0	6.0	6.0
12	74	68	27	167	6.5	41	84	11	4.0	1.8	12	5.5
13	95	55	26	76	6.0	22	55	11	3.5	1.5	10	1.5
14	65	51	24	54	6.0	16	42	19	3.0	1.3	8.5	.80
15	46	42	22	48	6.0	18	147	13	2.5	1.2	1.8	.55
16	35	35	23	39	5.5	14	75	10	7.0	1.5	1.5	.70
17	29	28	46	31	5.0	14	42	8.4	5.0	3.5	1.2	7.0
18	26	26	31	29	4.5	292	31	7.2	4.0	2.0	1.1	10
19	24	24	28	29	5.0	94	26	7.6	3.5	1.5	1.7	7.0
20	22	22	27	27	6.0	72	22	11	3.0	1.4	1.1	5.0
21	21	20	23	22	6.7	1050	19	8.0	2.5	3.0	1.5	4.0
22	20	19	24	20	7.1	996	17	7.0	2.3	2.5	1.7	3.3
23	18	20	24	18	6.7	154	16	6.0	2.0	2.5	1.0	1.0
24	22	20	30	16	8.0	110	16	5.5	2.5	3.0	.95	.80
25	24	20	204	14	9.5	103	14	5.0	2.0	3.5	.95	.65
26	20	174	144	13	8.5	65	14	4.5	1.8	1.3	.90	.80
27	18	325	75	11	7.5	48	14	4.0	1.6	1.4	.90	.70
28	16	112	54	11	7.2	39	35	3.7	1.4	1.2	.90	.65
29	18	75	47	13	6.5	46	245	3.5	2.5	1.9	.90	.60
30	17	59	40	10	---	83	91	3.3	35	2.0	.85	.65
31	16	---	33	9.5	---	49	---	3.0	---	1.6	.80	---
TOTAL	1499	1671	1374	891.5	192.5	3569.2	2166	379.7	143.6	100.8	76.85	78.90
MEAN	48.4	55.7	44.3	28.8	6.64	115	72.2	12.2	4.79	3.25	2.48	2.63
MAX	150	325	204	167	9.5	1050	691	46	35	15	12	10
MIN	16	14	22	9.5	4.5	3.8	14	3.0	1.4	1.2	.80	.55
CFSM	2.34	2.69	2.14	1.39	.32	5.56	3.49	.59	.23	.16	.12	.13
IN.	2.69	3.00	2.47	1.60	.35	6.41	3.89	.68	.26	.18	.14	.14
CAL YR 1979	TOTAL	20283.50	MEAN	55.6	MAX	844	MIN	1.0	CFSM	2.69	IN	36.45
WTR YR 1980	TOTAL	12143.05	MEAN	33.2	MAX	1050	MIN	.55	CFSM	1.60	IN	21.82

CONNECTICUT RIVER BASIN

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01188000 BURLINGTON BROOK NEAR BURLINGTON, CT

LOCATION.--Lat 41°47'10", long 72°57'55", Hartford County, Hydrologic Unit 01080207, on left bank 1.2 mi (1.9 km) north of Burlington, 3 mi (5 km) upstream from mouth, and 3 mi (5 km) southwest of Collinsville.

DRAINAGE AREA.--4.13 mi² (10.70 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1931 to current year.

REVISED RECORDS.--WSP 1171: Drainage area. WSP 1301: 1933-45 (M).

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft (217.627 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--49 years, 8.24 ft³/s (0.233 m³/s), 27.09 in/yr (688 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) Aug. 19, 1955, gage height, 9.22 ft (2.810 m), from rating curve extended above 320 ft³/s (9.06 m³/s) on basis of computation of peak flow through orifice and over weir abutments at 676 ft³/s (19.1 m³/s) and 1,690 ft³/s (47.9 m³/s); minimum, 0.12 ft³/s (0.003 m³/s) June 22, 1965; minimum unregulated daily, 0.44 ft³/s (0.012 m³/s) Aug. 31, Sept. 10, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

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. 11	0630	141	3.99	Mar. 21	2330	*622	17.6
18	0500	195	5.52	Apr. 10	0400	373	10.6
			5.49				6.64
			1.673				2.024

Minimum discharge, 0.34 ft³/s (0.010 m³/s) June 28 (regulated), gage height, 1.42 ft (0.433 m); minimum daily, 0.62 ft³/s (0.018 m³/s) Sept. 9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	3.3	6.1	5.4	2.5	2.2	18	13	3.4	5.1	1.5	1.6
2	12	3.5	5.7	5.2	2.5	1.8	14	11	3.9	4.1	1.5	1.0
3	17	23	5.3	5.1	2.4	1.6	13	9.8	3.8	4.5	3.1	.94
4	14	11	5.1	4.5	2.3	1.6	34	8.8	3.2	4.0	1.9	.86
5	6.9	6.6	5.0	4.5	2.2	1.6	24	8.2	2.8	4.8	1.6	.86
6	17	5.4	5.3	4.3	2.1	1.6	14	8.2	2.5	9.1	1.6	.82
7	6.8	5.0	13	4.0	2.4	3.4	12	7.7	5.1	8.3	1.3	.78
8	4.9	4.6	7.5	4.3	2.4	9.2	11	20	6.6	3.4	1.2	.74
9	5.0	4.3	5.6	4.0	2.4	9.8	22	12	5.7	3.3	.99	.61
10	7.4	5.6	5.3	3.8	2.1	6.0	160	9.1	4.4	2.9	.86	.64
11	8.5	7.4	5.0	6.0	2.0	54	33	8.3	3.7	2.8	1.9	.61
12	12	18	5.1	28	2.0	9.4	20	9.5	3.2	2.5	2.1	.64
13	12	8.5	5.6	9.2	2.2	5.8	16	8.9	2.8	2.4	1.5	.71
14	6.9	7.5	5.8	6.8	1.9	5.7	17	7.7	2.5	2.4	1.2	.74
15	5.2	6.2	4.9	6.9	2.0	5.3	45	6.6	2.5	2.2	1.6	.82
16	4.8	5.5	5.4	6.2	2.0	4.9	20	6.1	3.3	2.5	1.4	.78
17	4.6	5.0	11	5.5	1.9	7.1	14	5.6	2.5	2.0	1.0	.74
18	4.4	4.9	6.2	5.4	1.8	98	12	5.8	2.3	1.4	1.0	3.5
19	4.1	4.5	5.2	5.7	2.2	16	11	6.2	2.2	1.3	1.2	1.3
20	3.5	4.5	5.1	5.3	2.6	11	11	5.6	2.2	1.3	2.8	1.0
21	3.5	4.2	5.1	4.8	2.9	116	10	9.7	2.1	1.2	1.7	.94
22	3.7	4.3	5.4	4.5	3.1	254	9.2	9.1	2.0	1.6	1.5	.86
23	3.5	4.2	6.0	4.7	3.7	62	8.9	5.8	1.9	2.9	1.3	.71
24	4.8	4.3	7.1	4.4	3.8	45	8.6	5.0	1.7	2.0	1.1	.67
25	4.3	4.3	44	3.7	3.8	35	8.3	4.5	1.6	1.5	.99	.67
26	3.4	24	19	3.5	3.5	26	8.5	4.0	1.6	1.3	.94	1.1
27	3.4	36	10	3.5	2.9	22	8.5	3.6	1.5	1.2	.90	.82
28	3.4	11	7.7	3.5	2.7	17	25	3.2	1.1	1.2	.82	.74
29	3.9	7.7	6.6	3.4	2.5	16	54	3.2	4.6	3.6	.90	.71
30	3.6	6.8	6.6	3.1	---	37	19	3.0	19	3.1	.99	.71
31	3.5	---	5.6	2.8	---	22	---	3.1	---	1.9	1.2	---
TOTAL	203.6	251.1	246.3	172.0	72.8	908.0	681.0	232.3	108.9	88.6	43.59	27.62
MEAN	6.57	8.37	7.95	5.55	2.51	29.3	22.7	7.49	3.63	2.86	1.41	.92
MAX	17	36	44	28	3.8	254	160	20	19	9.1	3.1	3.5
MIN	3.4	3.3	4.9	2.8	1.8	1.6	8.3	3.0	1.1	1.2	.82	.61
CFSM	1.59	2.03	1.93	1.34	.61	7.09	5.50	1.81	.88	.69	.34	.22
IN.	1.83	2.26	2.22	1.55	.66	8.18	6.13	2.09	.98	.80	.39	.25

CAL YR 1979	TOTAL	3758.53	MEAN 10.3	MAX 270	MIN .76	CFSM 2.49	IN 33.85
WTR YR 1980	TOTAL	3035.81	MEAN 8.29	MAX 254	MIN .61	CFSM 2.01	IN 27.34

CONNECTICUT RIVER BASIN

01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 23.5°C July 27, Aug. 9, 1971; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
17...	1515	4.6	78	7.6	14.5	10.0	30	2.0	11.6	103	.64	--
NOV												
20...	1345	4.6	76	6.2	14.5	7.5	20	1.0	10.9	98	640	--
DEC												
13...	1330	6.1	73	6.3	-1.0	3.5	20	2.0	13.2	98	440	--
JAN												
16...	0900	6.6	62	6.9	2.5	1.5	10	3.0	13.2	94	200	32
FEB												
12...	0810	2.0	83	7.1	<5.0	.5	5	1.0	10.5	73	33	K1
MAR												
21...	1000	11	57	6.5	7.0	2.0	5	2.0	13.6	98	20	K5
APR												
16...	0850	20	51	6.9	9.0	7.0	10	1.0	11.8	98	440	<1
MAY												
20...	1000	6.1	72	6.4	19.0	16.5	10	2.0	10.0	100	170	48
JUN												
16...	1100	3.8	86	6.5	16.5	17.0	40	2.0	10.0	103	2600	80
JUL												
21...	1100	2.3	104	6.8	32.0	23.0	55	6.0	8.6	98	370	120
AUG												
11...	1505	2.1	113	7.0	24.0	18.5	35	3.0	7.4	79	290	160
SEP												
02...	1515	1.0	99	6.9	31.0	21.0	40	3.0	7.5	83	520	64

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
17...	K13	K1	18	1	4.2	1.9	17	5.7	17	9.2	47	.06
NOV												
20...	K17	K11	--	--	--	--	--	--	9.9	1.0	17	.02
DEC												
13...	24	80	--	--	--	--	--	--	9.4	--	50	.07
JAN												
16...	--	3400	15	0	3.4	1.6	24	8.8	8.5	8.3	56	.08
FEB												
12...	--	K10	--	--	--	--	--	--	11	--	58	.08
MAR												
21...	--	19	--	--	--	--	--	--	8.2	--	21	.03
APR												
16...	--	K2	12	0	2.8	1.3	14	7.2	6.3	6.3	40	.05
MAY												
20...	--	K11	--	--	--	--	--	--	9.4	--	52	.07
JUN												
16...	--	160	--	--	--	--	--	--	11	--	70	.10
JUL												
21...	--	840	25	4	6.1	2.4	21	6.2	14	9.9	82	.11
AUG												
11...	--	560	--	--	--	--	--	--	14	--	69	.09
SEP												
02...	--	180	--	--	--	--	--	--	13	--	90	.12

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 17...	.58	80	--	--	.12	.00	.00	.20	.20	.32	1.4
NOV 20...	.21	55	.11	.00	.11	.01	.01	.21	.22	.33	1.5
DEC 13...	.82	74	.15	.01	.16	.03	.04	.03	.06	.22	.97
JAN 16...	1.00	51	--	--	.22	.01	.01	.06	.07	.29	1.3
FEB 12...	.31	59	.20	.01	.21	.03	.04	.11	.14	.35	1.6
MAR 21...	.62	43	.24	.01	.25	.10	.12	.12	.22	.47	2.1
APR 16...	2.16	59	--	--	.15	.03	.04	.00	.01	.16	.71
MAY 20...	.86	80	.22	.03	.25	.07	.08	.03	.10	.35	1.6
JUN 16...	.72	74	.22	.00	.22	.05	.06	.33	.38	.60	2.7
JUL 21...	.51	85	--	--	.09	.09	.11	.31	.40	.49	2.2
AUG 11...	.39	70	.13	.01	.14	.09	.11	.14	.23	.37	1.6
SEP 02...	.24	77	.11	.01	.12	.00	.00	.27	.27	.39	1.7

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 17...	.010	.03	1	240	50	0	3.2	.00	.000	.000
NOV 20...	.010	.03	4	--	--	10	2.7	--	--	--
DEC 13...	.040	.12	2	--	--	10	2.4	--	--	--
JAN 16...	.010	.03	2	150	70	7	2.3	.00	.000	.000
FEB 12...	.010	.03	2	--	--	10	3.8	--	--	--
MAR 21...	.030	.09	2	--	--	20	2.8	--	--	--
APR 16...	.010	.03	6	100	50	10	3.4	.00	.000	.000
MAY 20...	.010	.03	3	--	--	10	4.8	--	--	--
JUN 16...	.020	.06	3	--	--	10	4.0	--	--	--
JUL 21...	.010	.03	1	1400	240	7	4.1	.00	1.08	.000
AUG 11...	.020	.06	2	--	--	0	3.7	--	--	--
SEP 02...	.020	.06	3	--	--	0	4.9	--	--	--

CONNECTICUT RIVER BASIN

01188085 FARMINGTON RIVER, AT STATE HIGHWAY 4, AT UNIONVILLE, CT

LOCATION.--Lat 41°45'52", long 72°53'47", Hartford County, Hydrologic Unit 01080207, at bridge on State Highway 4, at Unionville, and 3.2 mi (5.1 km) downstream from Burlington Brook and 3.9 mi (6.3 km) upstream from Pequobuck River.

DRAINAGE AREA.--377 mi² (976 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 10...	1100	778	62	7.2	2.5	11.0	20	1.0	10.6	95	6000	--
NOV 13...	1315	634	75	6.2	6.5	8.0	20	1.0	--	--	3200	--
DEC 13...	1220	706	73	6.5	-5	5.0	20	1.0	12.8	100	3000	--
JAN 14...	1230	802	83	6.3	4.0	1.0	10	1.0	15.0	106	2100	240
FEB 11...	1230	190	97	6.9	3.0	.0	10	1.0	15.8	108	2300	720
MAR 17...	1235	220	104	7.1	14.5	4.0	5	1.0	15.0	114	240	230
APR 16...	1040	1800	60	7.0	9.5	7.5	5	1.0	12.5	104	3000	240
MAY 15...	1445	450	81	8.4	18.0	15.5	4	1.0	11.0	109	960	47
JUN 09...	1320	470	68	6.9	14.5	15.0	10	2.0	10.4	102	3600	120
JUL 08...	1150	485	65	6.9	25.5	18.0	14	1.0	9.5	100	250	110
AUG 11...	1200	365	82	6.7	23.0	22.0	5	1.0	8.4	96	2200	400
SEP 05...	1130	296	88	7.1	22.5	21.5	3	1.0	8.7	98	440	190

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 10...	2700	640	17	0	4.6	1.3	17	10	8.1	4.3	42	.06
NOV 13...	180	100	--	--	--	--	--	--	7.9	--	52	.07
DEC 13...	1000	120	--	--	--	--	--	--	8.2	--	45	.06
JAN 14...	--	1100	18	0	4.7	1.5	40	9.1	7.1	5.7	46	.06
FEB 11...	--	290	--	--	--	--	--	--	11	--	54	.07
MAR 17...	--	380	--	--	--	--	--	--	14	--	56	.08
APR 16...	--	130	15	1	4.0	1.2	14	9.5	6.5	4.8	38	.05
MAY 15...	--	20	--	--	--	--	--	--	7.8	--	--	--
JUN 09...	--	40	--	--	--	--	--	--	7.4	--	50	.07
JUL 08...	--	660	17	9	4.7	1.3	8	7.1	7.8	4.0	46	.06
AUG 11...	--	2000	--	--	--	--	--	--	7.5	--	47	.06
SEP 05...	--	760	--	--	--	--	--	--	7.6	--	128	.17

CONNECTICUT RIVER BASIN

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01188085 FARMINGTON RIVER, AT STATE HIGHWAY 4, AT UNIONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 10...	88.2	50	--	--	.17	.07	.08	.15	.22	.39	1.7
NOV 13...	89.0	55	.14	.01	.15	.09	.11	.40	.49	.64	2.8
DEC 13...	85.8	60	.27	.00	.27	.08	.10	.16	.24	.51	2.3
JAN 14...	99.6	48	--	--	.20	.03	.04	.31	.34	.54	2.4
FEB 11...	27.7	63	.26	.01	.27	.01	.01	.40	.41	.68	3.0
MAR 17...	33.3	65	.38	.02	.40	.15	.18	.18	.33	.73	3.2
APR 16...	185	62	--	--	.18	.05	.06	.01	.06	.24	1.1
MAY 15...	--	51	.12	.00	.12	.05	.06	.13	.18	.30	1.3
JUN 09...	63.4	70	.33	.01	.34	.06	.07	.25	.31	.65	2.9
JUL 08...	60.2	52	--	--	.26	.02	.02	.61	.63	.89	3.9
AUG 11...	46.3	63	.24	.01	.25	.05	.06	.12	.17	.42	1.9
SEP 05...	102	54	.22	.00	.22	.07	.08	.08	.15	.37	1.6

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	.020	.06	2	110	20	0	3.4	.00	.000	.000
NOV 13...	.030	.09	6	--	--	10	5.1	--	--	--
DEC 13...	.030	.09	2	--	--	0	4.3	--	--	--
JAN 14...	.020	.06	2	90	20	30	5.0	.00	.000	.000
FEB 11...	.050	.15	3	--	--	10	1.6	--	--	--
MAR 17...	.040	.12	3	--	--	10	3.0	--	--	--
APR 16...	.010	.03	2	60	20	9	4.1	.00	2.17	.000
MAY 15...	.020	.06	2	--	--	0	3.7	--	--	--
JUN 09...	.030	.09	2	--	--	10	3.0	--	--	--
JUL 08...	.010	.03	3	80	10	6	4.3	.00	.000	.000
AUG 11...	.030	.09	4	--	--	0	4.7	--	--	--
SEP 05...	.000	.00	2	--	--	0	3.6	--	--	--

CONNECTICUT RIVER BASIN

01188090 FARMINGTON RIVER AT UNIONVILLE, CT

LOCATION.--Lat 41°45'21", long 72°53'14", Hartford County, Hydrologic Unit 01080207, at right bank upstream of steel truss highway bridge on State highway 177 at Unionville, 4.1 mi (6.6 km) downstream from Burlington Brook and 3.0 mi (4.8 km) upstream from Pequabuck River.

DRAINAGE AREA.--378 mi² (979 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 178.20 ft (54.315 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch and Nepaug Reservoirs (see p.222), and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 32.9 ft (10.028 m) from floodmark, discharge, 140,000 ft³/s (3,960 m³/s) by slope-area measurement 3.8 mi (6.1 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,300 ft³/s (575 m³/s) Mar. 23, gage height, 16.57 ft (5.051 m); minimum, 112 ft³/s (3.17 m³/s) Sept. 28, gage height, 4.35 ft (1.326 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	691	354	542	393	320	160	1890	1520	179	690	316	297
2	1410	298	525	389	320	160	1850	1310	167	542	320	294
3	1190	758	494	409	320	150	1720	1090	216	515	369	294
4	1480	925	470	432	320	150	1780	856	232	466	348	290
5	996	676	459	642	300	150	1860	740	182	450	328	301
6	1110	595	455	669	250	146	1440	650	218	499	324	305
7	914	563	590	664	230	139	1390	606	521	455	316	297
8	782	476	595	633	220	191	1480	746	526	493	305	294
9	802	423	506	602	210	375	1790	708	471	177	309	344
10	750	447	480	547	200	278	6470	600	482	410	309	344
11	616	546	525	542	190	1050	3560	542	471	450	344	340
12	659	682	728	1370	180	505	2700	531	229	391	405	340
13	817	624	697	901	180	349	2250	537	415	182	382	320
14	658	557	672	809	170	282	1980	499	455	173	356	297
15	557	544	638	741	170	258	2050	440	471	173	332	344
16	511	515	639	696	160	219	1850	391	565	173	297	400
17	484	465	727	659	160	232	1750	356	515	200	276	420
18	479	458	651	631	154	1970	1730	340	450	184	283	542
19	465	446	600	624	166	1550	1080	405	450	173	324	493
20	553	449	520	604	171	1040	977	571	455	177	312	455
21	509	445	450	540	159	2450	1080	531	450	188	305	430
22	501	447	413	386	158	13600	1490	378	445	186	287	420
23	494	463	365	352	150	4930	1440	324	455	241	297	410
24	504	442	366	350	150	3100	1400	290	460	203	294	391
25	518	437	1070	350	150	2650	1360	256	440	186	290	391
26	495	675	1130	370	172	2200	1350	238	410	184	290	373
27	473	1820	695	399	170	1830	1330	218	420	177	290	188
28	447	1040	534	373	165	1640	1010	213	410	195	290	144
29	477	723	505	365	160	1350	2280	213	466	348	290	153
30	475	589	432	355	---	1770	1930	208	1010	352	290	159
31	471	---	407	318	---	1750	---	200	---	324	301	---
TOTAL	21288	17882	17880	17115	5825	46624	56267	16507	12636	9557	9779	10070
MEAN	687	596	577	552	201	1504	1876	532	421	308	315	336
MAX	1480	1820	1130	1370	320	13600	6470	1520	1010	690	405	542
MIN	447	298	365	318	150	139	977	200	167	173	276	144
(†)	+165	+294	+176	-16.3	+30.2	+747	+103	+14.1	-232	-161	-249.9	-250.3
MEAN†	852	890	753	536	231	2251	1979	546	189	147	65.1	85.7
CFSM†	2.25	2.35	1.99	1.42	0.61	5.96	5.24	1.44	0.50	0.39	0.17	0.23
INT†	2.59	2.62	2.29	1.64	0.66	6.87	5.85	1.66	0.56	0.45	0.20	0.26

CAL YR 1979 TOTAL 286070 MEAN 784 MAX 5790 MIN 154 MEAN† 954 CFSM† 2.52 INT† 32.91
WTR YR 1980 TOTAL 241430 MEAN 660 MAX 13600 MIN 139 MEAN† 713 CFSM† 1.89 INT† 25.65

† Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Highland Lake, Barkhamsted, East Branch, and Nepaug Reservoirs, Mad River and Sucker Brook Detention Reservoirs, and diversion from Barkhamsted and Nepaug Reservoirs, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, and Massachusetts Department of Natural Resources, Division of Forests and Parks.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

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01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1977 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1977 to September 1980 (discontinued).

WATER TEMPERATURES: August 1977 to September 1980 (discontinued).

INSTRUMENTATION.--Water-quality monitor since August 1977.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 243 micromhos Jan. 21, 1979; minimum, 40 micromhos January 10, 1978.

WATER TEMPERATURES: Maximum, 29.5°C July 21, 1980; minimum, 0.0°C on several days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 121 micromhos Sept. 30; minimum, 47 micromhos Feb. 8.

WATER TEMPERATURES: Maximum, 20.5°C July 21; minimum, 0.0°C on several days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	61	58	60	88	86	87	72	71	71	97	95	96
2	---	---	---	89	87	88	78	71	74	97	96	96
3	---	---	---	89	84	87	80	70	75	97	96	97
4	---	---	---	83	82	82	74	70	71	96	93	95
5	---	---	---	84	81	82	71	70	71	94	92	93
6	---	---	---	83	81	82	72	70	71	92	90	91
7	---	---	---	83	80	81	78	70	75	90	88	89
8	---	---	---	82	78	79	97	77	84	91	89	90
9	---	---	---	80	78	79	90	77	88	92	90	91
10	62	61	62	78	75	76	72	69	71	90	89	90
11	65	63	64	81	78	80	70	62	67	89	87	88
12	68	66	67	80	75	78	70	63	68	88	84	87
13	68	67	68	77	74	75	73	71	72	83	81	82
14	71	68	70	75	73	74	78	74	76	84	82	83
15	73	70	72	75	74	74	79	73	76	89	82	86
16	73	71	72	80	74	77	76	73	75	87	85	86
17	74	73	73	76	71	74	76	70	73	84	82	83
18	77	75	76	72	71	71	76	73	74	83	81	82
19	80	77	79	72	70	71	77	74	75	81	81	81
20	81	80	81	72	69	71	81	78	79	79	78	79
21	84	80	82	72	70	71	82	79	81	75	74	75
22	84	82	83	73	71	72	87	83	85	72	70	71
23	85	83	84	73	69	71	91	89	91	75	70	73
24	92	86	89	72	67	69	94	92	93	73	71	72
25	94	91	93	70	68	69	97	90	94	72	70	71
26	92	91	92	72	63	70	91	88	89	71	68	69
27	91	90	91	63	57	62	92	90	91	68	67	68
28	90	88	89	62	58	61	97	94	96	66	64	65
29	88	86	87	70	62	66	99	97	98	63	61	62
30	87	85	86	73	70	72	99	98	98	61	59	60
31	86	84	85	---	---	---	98	96	97	62	59	61
MONTH	94	58	78	89	57	75	99	62	81	97	59	81

CONNECTICUT RIVER BASIN

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	64	59	61	87	83	85	---	---	---	67	64	65
2	63	58	60	90	88	89	---	---	---	68	66	67
3	61	59	59	95	89	92	---	---	---	71	68	69
4	59	55	57	101	89	96	92	91	91	74	70	72
5	56	52	54	104	98	101	89	88	89	76	73	75
6	66	50	57	105	100	103	87	86	86	78	75	77
7	50	48	49	101	98	99	86	84	85	79	77	78
8	51	47	49	102	100	101	85	84	84	79	76	77
9	53	48	51	109	101	105	82	80	81	78	76	77
10	57	53	55	109	103	107	76	61	64	79	77	78
11	60	53	56	105	88	93	64	60	62	80	78	79
12	66	59	62	89	82	85	65	62	63	81	79	80
13	69	65	67	87	83	85	65	63	64	83	80	81
14	67	59	63	93	88	92	63	62	62	85	82	84
15	73	66	70	95	94	95	63	60	61	85	83	84
16	77	65	70	102	96	100	61	60	61	84	81	83
17	71	64	68	---	---	---	63	60	62	87	81	84
18	73	69	71	---	---	---	65	63	64	86	84	85
19	74	67	72	---	---	---	68	64	66	84	83	84
20	85	75	79	---	---	---	70	67	68	81	78	79
21	90	87	89	---	---	---	72	70	71	76	74	75
22	90	86	87	---	---	---	72	70	70	80	74	76
23	101	88	94	---	---	---	69	68	69	85	78	81
24	106	102	104	---	---	---	70	68	69	91	82	86
25	109	102	105	---	---	---	70	69	69	90	88	89
26	120	103	111	---	---	---	69	68	69	89	87	88
27	118	91	102	---	---	---	69	68	68	88	86	87
28	93	87	90	---	---	---	68	67	68	88	83	85
29	90	83	86	---	---	---	66	62	64	91	85	88
30	---	---	---	---	---	---	64	62	63	97	88	92
31	---	---	---	---	---	---	---	---	---	96	94	95
MONTH	120	47	72	109	82	96	92	60	70	97	64	81
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	102	94	97	64	58	61	---	---	---	---	---	---
2	100	96	98	60	59	60	---	---	---	---	---	---
3	96	90	93	60	57	59	---	---	---	---	---	---
4	88	85	86	62	57	60	---	---	---	---	---	---
5	86	84	84	61	56	59	---	---	---	88	76	94
6	87	81	84	60	57	58	---	---	---	87	76	80
7	81	74	77	77	60	69	---	---	---	82	72	76
8	74	70	72	---	---	---	---	---	---	76	65	73
9	70	66	68	---	---	---	---	---	---	68	53	61
10	66	64	64	---	---	---	---	---	---	62	58	60
11	64	61	62	---	---	---	---	---	---	65	62	63
12	69	63	66	---	---	---	---	---	---	68	63	65
13	70	67	68	---	---	---	---	---	---	69	67	68
14	71	68	69	---	---	---	---	---	---	75	72	74
15	71	70	71	---	---	---	---	---	---	79	77	78
16	70	66	68	---	---	---	---	---	---	84	81	82
17	66	65	65	---	---	---	---	---	---	87	79	82
18	65	64	65	---	---	---	---	---	---	88	84	86
19	65	63	64	---	---	---	---	---	---	92	88	90
20	64	62	62	---	---	---	---	---	---	94	92	93
21	71	63	68	---	---	---	---	---	---	99	95	97
22	72	68	70	---	---	---	---	---	---	99	95	97
23	70	66	67	---	---	---	---	---	---	99	95	97
24	68	63	65	---	---	---	---	---	---	108	94	95
25	69	64	66	---	---	---	---	---	---	96	93	94
26	72	68	69	---	---	---	---	---	---	96	93	94
27	71	66	69	---	---	---	---	---	---	103	96	99
28	71	68	69	---	---	---	---	---	---	114	101	106
29	73	68	70	---	---	---	---	---	---	115	110	112
30	71	56	59	---	---	---	---	---	---	121	115	117
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	102	56	72	77	56	61	---	---	---	121	53	86

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.5	16.0	16.0	10.5	8.5	9.0	4.5	3.5	4.0	2.5	1.0	1.5
2	---	---	---	12.0	8.5	10.5	4.0	2.5	3.5	2.5	1.0	1.5
3	---	---	---	12.5	11.0	12.0	3.0	1.5	2.0	2.0	1.0	1.5
4	---	---	---	10.5	9.0	9.5	3.0	1.5	2.0	1.0	.0	.5
5	---	---	---	9.5	8.0	8.5	3.5	2.0	2.5	.5	.5	.5
6	---	---	---	8.5	7.5	8.0	4.5	3.0	3.5	1.0	.0	.5
7	---	---	---	9.0	7.5	8.5	5.5	4.5	5.0	.5	.0	.5
8	---	---	---	9.0	8.0	8.5	5.0	3.0	4.5	2.0	.5	1.0
9	---	---	---	9.0	8.0	8.5	3.0	1.5	2.0	1.0	.0	1.0
10	11.0	9.5	10.0	10.5	8.5	10.0	2.5	1.0	2.0	1.0	.0	.5
11	9.5	7.5	8.5	10.5	9.5	10.0	4.0	2.0	3.0	3.0	.5	1.0
12	8.5	8.0	8.5	9.5	8.5	9.0	5.5	3.5	4.5	4.0	1.0	3.0
13	9.5	8.5	9.0	8.5	8.0	8.0	5.5	4.0	5.0	1.0	.0	.5
14	10.0	8.5	9.0	8.0	7.0	7.5	4.0	2.5	3.5	1.5	.0	1.0
15	9.5	8.5	9.0	7.0	6.0	6.5	3.0	2.0	2.5	3.5	2.0	3.0
16	10.5	8.5	9.5	6.0	5.0	5.5	3.0	2.5	2.5	3.0	2.0	2.5
17	11.0	9.5	10.5	5.5	4.5	5.0	3.5	.5	2.0	2.5	1.5	2.0
18	12.5	10.5	11.5	6.5	4.5	5.5	.5	.0	.0	3.0	2.0	2.5
19	13.0	11.5	12.0	7.0	5.5	6.0	.0	.0	.0	4.0	3.0	3.5
20	14.0	12.5	13.0	8.0	6.0	7.0	.0	.0	.0	3.0	2.0	3.0
21	16.0	14.0	15.0	8.5	7.0	7.5	1.0	.0	.5	2.0	.5	1.5
22	16.5	15.0	16.0	8.0	7.0	7.5	2.5	1.5	2.0	1.0	.5	1.0
23	17.0	16.0	16.0	9.0	7.5	8.0	3.5	2.5	3.0	2.0	.5	1.0
24	16.5	15.0	16.0	10.0	8.5	9.5	4.5	3.5	4.0	.5	.5	.5
25	15.0	11.5	13.5	11.5	10.0	11.0	4.5	4.0	4.5	.5	.5	.5
26	11.5	9.5	11.0	13.0	11.0	12.0	4.5	3.5	4.0	.5	.0	.5
27	9.5	8.0	9.0	12.0	9.5	10.5	3.5	2.5	3.5	1.0	.5	.5
28	8.0	8.0	8.0	9.5	8.0	8.5	2.5	2.0	2.5	1.0	.5	.5
29	10.0	8.0	9.0	8.0	6.0	7.0	3.0	2.0	2.5	1.0	.5	.5
30	11.0	9.0	10.0	5.5	4.0	5.0	4.0	2.5	3.0	.5	.5	.5
31	10.5	8.5	9.5	---	---	---	3.5	1.5	2.5	1.0	.5	.5
MONTH	17.0	7.5	11.5	13.0	4.0	8.5	5.5	.0	3.0	4.0	.0	1.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.5	.5	.5	.5	.5	.5	---	---	---	11.0	10.0	10.5
2	.5	.5	.5	1.5	.5	1.0	---	---	---	12.5	10.5	11.5
3	.5	.5	.5	2.0	.5	1.0	---	---	---	13.0	11.0	12.0
4	.5	.5	.5	2.0	.5	1.0	7.0	6.0	6.0	14.5	12.5	13.5
5	.5	.5	.5	1.5	.5	1.0	7.0	5.5	6.5	15.0	12.5	13.5
6	.5	.5	.5	2.5	.5	1.5	8.0	5.0	6.5	16.0	13.5	14.5
7	.5	.5	.5	3.5	.5	2.0	8.5	6.0	7.5	15.5	13.5	14.5
8	1.0	.5	.5	2.0	1.0	1.5	7.5	6.5	6.5	14.0	12.0	13.0
9	1.0	.5	.5	3.5	1.0	2.0	8.0	6.0	6.5	13.5	11.5	12.5
10	1.0	.5	.5	4.5	.5	2.5	7.5	6.5	7.0	14.5	11.5	13.0
11	1.0	.5	.5	2.5	1.0	1.5	9.0	6.5	7.5	13.0	12.0	13.0
12	2.0	.5	1.0	3.0	.5	1.5	8.5	6.5	7.5	14.0	12.0	13.0
13	1.5	.5	1.0	2.5	.5	1.0	9.5	7.0	8.5	15.5	14.0	14.5
14	1.5	.5	1.0	1.5	.5	1.0	8.0	6.5	7.0	16.5	14.5	15.5
15	2.0	.5	1.0	3.0	.5	1.5	10.0	6.5	8.5	16.0	13.5	14.5
16	1.0	.5	.5	4.0	.5	1.5	9.0	6.5	7.5	16.5	13.0	14.5
17	1.0	.5	1.0	---	---	---	7.5	4.5	6.0	18.5	14.0	16.0
18	1.5	.5	1.0	---	---	---	7.5	5.0	6.5	16.0	14.5	15.5
19	1.5	.5	1.0	---	---	---	9.5	6.0	8.0	16.0	14.5	15.0
20	1.5	.5	1.0	---	---	---	10.5	8.0	9.5	16.5	14.5	15.5
21	2.0	.5	1.0	---	---	---	11.5	9.0	10.5	15.5	13.5	14.5
22	1.0	.5	1.0	---	---	---	10.0	7.5	8.5	18.0	13.0	15.5
23	2.0	1.0	1.5	---	---	---	9.5	6.5	8.0	20.5	15.5	18.0
24	2.0	1.0	1.5	---	---	---	10.5	7.5	9.5	22.0	18.0	19.5
25	3.0	.5	1.5	---	---	---	10.5	8.5	9.0	22.0	17.5	19.5
26	2.5	.5	1.0	---	---	---	10.5	8.5	9.5	20.5	16.0	18.0
27	.5	.5	.5	---	---	---	10.0	8.5	9.0	20.0	15.0	17.5
28	1.0	.5	.5	---	---	---	9.0	8.0	8.5	20.0	15.0	17.5
29	1.0	.5	.5	---	---	---	8.0	7.5	8.0	21.0	14.5	17.5
30	---	---	---	---	---	---	11.0	8.0	9.5	20.0	15.0	17.5
31	---	---	---	---	---	---	---	---	---	19.5	16.0	17.5
MONTH	3.0	.5	1.0	4.5	.5	1.5	11.5	4.5	8.0	22.0	10.0	15.0

01189000 PEQUABUCK RIVER AT FORESTVILLE, CT

LOCATION.--Lat 41°40'23", long 72°54'04", Hartford County, Hydrologic Unit 01080207, on left bank 500 ft (152 m) upstream from bridge on Central Street, 0.2 mi (0.3 km) downstream from Copper Mine Brook, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--45.4 mi² (117.6 km²).

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

REVISED RECORDS.--WSP 971: 1941-42. WSP 1111: 1947. WSP 1901: 1959-60.

GAGE.--Water-stage recorder. Datum of gage is 197.72 ft (60.265 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Whigville Reservoir (see p. 222) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir, Whites Bridge wells, and Coppermine Brook. Chemical quality records available for water years 1956, 1960 (WSP 1741), 1971-72 (WRDC 1971-72).

AVERAGE DISCHARGE (adjusted for storage and diversion).--39 years, 85.8 ft³/s (2.430 m³/s), 25.66 in/yr (652 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) Aug. 19, 1955, gage height, 13.22 ft (4.029 m), from high-water mark in gage house, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement at gage heights 7.3 and 13.22 ft (2.22 and 4.029 m); minimum, 6.5 ft³/s (0.18 m³/s) Sept. 21, 22, 1941, gage height, 0.64 ft (0.195 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1938 reached a stage of about 7.3 ft (2.22 m), from floodmarks, discharge 3,800 ft³/s (108 m³/s) on basis of slope-area measurement of peak flow and computation of peak flow over dam.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximum (*):

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. 22	0700	*3640 103	*8.00 2.438	Sept. 18	0030	812 23.0	3.04 0.927
Apr. 10	0700	2190 62.0	4.95 1.509				

Minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 8, 12, 14, gage height, 1.09 ft (0.332 m).

DISCHARGE* IN CUBIC FEET PER SECOND* WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	30	54	49	32	29	184	132	41	46	21	16
2	65	30	50	46	31	30	145	109	41	45	43	21
3	121	135	48	46	31	28	132	98	41	37	71	17
4	87	74	52	44	31	30	305	92	38	30	26	14
5	58	49	49	42	31	32	249	85	36	60	23	14
6	99	42	46	40	30	33	153	81	33	67	25	14
7	50	39	79	39	30	32	127	81	121	31	22	11
8	41	37	64	39	31	41	113	195	57	28	20	11
9	47	36	52	38	31	49	225	119	45	27	18	12
10	63	42	50	37	30	42	1500	96	46	26	15	14
11	59	55	48	42	30	184	507	87	39	26	23	12
12	58	115	49	132	30	61	265	92	36	24	39	11
13	58	63	56	63	30	43	199	90	33	22	21	11
14	45	58	63	66	31	44	174	85	31	22	19	11
15	40	47	51	59	31	49	405	74	30	21	23	12
16	38	42	49	54	31	39	212	69	43	21	18	12
17	36	41	58	50	31	50	159	64	30	27	16	42
18	38	39	52	46	30	432	135	63	29	22	16	121
19	37	39	46	46	31	211	123	64	28	20	18	21
20	33	38	43	46	31	113	115	61	28	19	37	18
21	32	37	41	44	33	246	109	83	27	22	21	16
22	33	35	39	42	36	2150	103	109	25	23	19	16
23	34	35	39	42	37	629	98	83	25	60	17	16
24	42	35	42	40	39	425	89	69	25	25	14	15
25	45	35	173	37	37	432	87	57	24	21	15	15
26	31	176	148	37	37	276	94	49	23	19	15	20
27	30	241	87	36	34	195	90	45	23	18	16	14
28	34	105	69	35	33	162	177	42	22	19	18	14
29	35	75	63	35	31	156	499	39	89	83	16	14
30	32	58	56	34	---	385	204	41	147	36	14	14
31	31	---	52	33	---	234	---	39	---	24	18	---
TOTAL	1507	1883	1868	1459	931	6862	6977	2493	1256	971	697	569
MEAN	48.6	62.8	60.3	47.1	32.1	221	233	80.4	41.9	31.3	22.5	19.0
MAX	121	241	173	132	39	2150	1500	195	147	83	71	121
MIN	30	30	39	33	30	28	87	39	22	18	14	11
(+)	+5.8	+7.8	+8.1	+6.7	+5.3	+10.4	+11.6	+9.2	+4.8	+3.5	+2.4	+2.5
MEAN†	54.4	70.6	68.4	53.8	37.4	231	245	89.6	46.7	34.8	24.9	21.5
CFSM†	1.20	1.56	1.51	1.19	0.82	5.09	5.40	1.97	1.03	0.77	0.55	0.47
IN†	1.38	1.74	1.74	1.37	0.88	5.87	6.02	2.27	1.15	0.89	0.63	0.52

CAL YR 1979	TOTAL	34615	MEAN 94.8	MAX 1990	MIN 23	MEAN† 99.1	CFSM† 2.18	IN† 29.59
WTR YR 1980	TOTAL	27473	MEAN 75.1	MAX 2150	MIN 11	MEAN† 81.6	CFSM† 1.80	IN† 24.46

† Change in contents in Whigville Reservoir and diversion for municipal supply of city of New Britain from Whigville Reservoir, Whites Bridge Wells and Coppermine Brook, equivalent in cubic feet per second; records furnished by city of New Britain.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CT

LOCATION.--Lat 41°43'00", long 72°50'25", Hartford County, Hydrologic Unit 0108027, at bridge on Meadow Road, at Farmington, and 0.2 mi (0.3 km) upstream from Farmington River.

DRAINAGE AREA.--57.2 mi² (148.1 km²).

PERIOD OF RECORD.--Water years 1971, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01189000, 6.3 mi (10 km) upstream, and adjusting its discharge by multiplying by a factor of 1.26, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
10...	1000	62	200	7.0	1.5	11.0	20	6.0	4.6	41	520000	--
NOV												
13...	1125	79	155	6.0	7.0	8.0	20	4.0	6.2	52	380000	--
DEC												
13...	1115	64	250	6.6	1.0	7.0	20	6.0	5.9	48	300000	--
JAN												
14...	1130	83	190	5.8	4.0	3.0	5	4.0	10.6	78	310000	73000
FEB												
11...	1145	38	290	7.4	4.5	.5	10	3.0	8.5	59	1100000	220000
MAR												
17...	1130	52	240	6.3	15.0	5.0	5	3.0	8.6	67	240000	140000
APR												
16...	0950	272	126	6.7	9.5	10.0	10	2.0	7.1	63	7000	1100
MAY												
15...	1350	94	240	6.6	17.0	15.5	5	5.0	7.2	72	2300	20
JUN												
09...	1235	58	210	6.6	15.0	14.0	15	6.0	5.3	51	10000	740
JUL												
08...	1015	35	280	7.1	21.0	18.0	15	2.0	1.8	19	6400	550
AUG												
11...	1045	29	328	6.5	23.5	23.0	8	4.0	1.0	12	10000	460
SEP												
05...	1010	19	495	6.7	21.5	21.5	15	6.0	.4	4	14000	2700

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
10...	58000	9800	49	9	15	2.8	40	21	20	9.7	127	.17
NOV												
13...	50000	11000	--	--	--	--	--	--	20	--	110	.15
DEC												
13...	30000	11000	--	--	--	--	--	--	24	--	142	.19
JAN												
14...	--	27000	41	19	12	2.7	22	17	16	9.6	95	.13
FEB												
11...	--	60000	--	--	--	--	--	--	27	--	153	.21
MAR												
17...	--	38000	--	--	--	--	--	--	26	--	132	.18
APR												
16...	--	800	30	3	8.7	1.9	27	14	12	6.8	80	.11
MAY												
15...	--	K1	--	--	--	--	--	--	19	--	123	.17
JUN												
09...	--	120	--	--	--	--	--	--	22	--	132	.18
JUL												
08...	--	3800	53	0	16	3.1	77	21	28	11	178	.24
AUG												
11...	--	680	--	--	--	--	--	--	32	--	170	.23
SEP												
05...	--	440	--	--	--	--	--	--	39	--	253	.34

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

167

01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 10...	21.3	147	--	--	1.2	1.8	2.2	.70	2.5	3.7	16
NOV 13...	23.5	126	.98	.02	1.0	1.0	1.2	.20	1.2	2.2	9.7
DEC 13...	24.5	167	1.5	.01	1.5	2.0	2.4	1.1	3.1	4.6	20
JAN 14...	21.3	114	--	--	1.1	1.9	2.3	.50	2.4	3.5	16
FEB 11...	15.7	156	1.2	.07	1.3	5.6	6.8	.00	5.0	6.3	28
MAR 17...	18.5	152	1.1	.04	1.1	3.2	3.9	.40	3.6	4.7	21
APR 16...	58.8	94	--	--	.82	.18	.22	.34	.52	1.3	5.9
MAY 15...	31.2	135	1.2	.10	1.3	.76	.92	.64	1.4	2.7	12
JUN 09...	20.7	148	1.4	.11	1.5	1.6	1.9	.60	2.2	3.7	16
JUL 08...	16.8	201	--	--	1.2	3.6	4.4	.00	3.6	4.8	21
AUG 11...	13.3	190	1.1	.14	1.2	4.4	5.3	.80	5.2	6.4	28
SEP 05...	13.0	272	1.3	.16	1.5	6.8	8.2	4.2	11	13	55

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	1.100	3.4	16	350	150	70	8.1	.10	.000	.000
NOV 13...	.530	1.6	15	--	--	70	6.8	--	--	--
DEC 13...	1.100	3.4	24	--	--	100	7.1	--	--	--
JAN 14...	.590	1.8	15	230	110	70	11	.20	1.13	.000
FEB 11...	3.000	9.2	35	--	--	90	7.2	--	--	--
MAR 17...	.700	2.1	10	--	--	60	9.1	--	--	--
APR 16...	.280	.86	22	180	40	70	2.4	.10	7.39	.000
MAY 15...	.770	2.4	12	--	--	50	7.2	--	--	--
JUN 09...	.620	1.9	14	--	--	30	6.4	--	--	--
JUL 08...	.450	1.4	23	480	250	180	13	.20	1.73	.000
AUG 11...	1.600	4.9	14	--	--	20	8.1	--	--	--
SEP 05...	4.700	14	21	--	--	30	8.7	--	--	--

CONNECTICUT RIVER BASIN

01189120 FARMINGTON RIVER AT AVON, CT

LOCATION.--Lat 41°48'24", long 72°49'23", Hartford County, Hydrologic Unit 01080207, at bridge on U.S. Highway 44, at Avon, 1.3 mi (2.1 km) downstream from Nod Brook and 3.9 mi (6.3 km) upstream from Thompson Brook.

DRAINAGE AREA.--465 mi² (1,204 km²).

PERIOD OF RECORD.--Water years 1971, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01189995, 11.2 mi (18.0 km) downstream, and adjusting its discharge by multiplying by a factor of 0.81, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 10...	1230	1030	92	7.0	2.5	11.0	30	3.0	10.5	95	140000
JAN 14...	1355	1170	87	6.9	4.0	4.0	10	1.0	14.2	108	55000
APR 16...	1200	2710	75	6.9	10.5	9.5	5	1.0	10.5	91	10000
JUL 08...	1315	553	93	6.7	25.5	21.0	10	3.0	8.4	93	560

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 10...	--	16000	1400	26	9	7.5	1.8	17	9.6	9.8	5.5
JAN 14...	12000	--	3500	21	0	5.8	1.6	35	9.9	8.9	6.2
APR 16...	920	--	440	19	0	5.2	1.4	20	9.0	7.8	5.3
JUL 08...	160	--	360	24	9	7.0	1.6	15	9.1	10	5.0

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)
OCT 10...	63	.09	175	77	.47	.42	.51	.40	.82	1.3	5.7
JAN 14...	56	.08	177	64	.36	.30	.36	.31	.61	.97	4.3
APR 16...	53	.07	388	80	.35	.11	.13	.29	.40	.75	3.3
JUL 08...	61	.08	91.1	80	.58	.22	.27	.73	.95	1.5	6.8

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	.170	.52	4	170	30	10	6.4	.10	.000	.000
JAN 14...	.110	.34	5	100	30	50	7.6	.00	1.38	.000
APR 16...	.090	.28	4	90	40	20	3.1	--	1.67	.000
JUL 08...	.180	.55	4	150	60	10	6.0	.00	2.56	.000

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT

LOCATION.--Lat 41°54'30", long 72°45'40", Hartford County, Hydrologic Unit 01080207, on right bank at Tariffville, behind house at 20 Tunxis Road, 0.3 mi (0.5 km) downstream from bridge on State Highway 189 and 5.5 mi (8.8 km) upstream from gage at Rainbow.

DRAINAGE AREA.--577 mi² (1,494 km²), rev.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1913 to August 1928 furnished by Farmington River Power Company. August 1928 to September 1939, October 1971 to current year.

REVISED RECORDS.--WSP 851: 1936. WSP 1301: 1937-39 (revised records published are included with those for "Farmington River at Rainbow, Conn."). WDR CT-76-1: 1972-75.

GAGE.--Water-stage recorder August 1928 to September 1939 and since October 1971. January 1913 to August 1928, staff gage on forebay of dam of Hartford Electric Light Co. Datum of gage is 130.21 ft (39.688 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p. 222), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs.

AVERAGE DISCHARGE (adjusted for storage and diversion).--9 years, 1,334 ft³/s (37.78 m³/s), 31.72 in/yr (806 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,900 ft³/s (847 m³/s) Sept. 22, 1938, gage height, 14.0 ft (4.27 m) from floodmarks, by computation of flow over dam 0.6 mi (1.0 km) downstream; minimum, probably less than 30 ft³/s (0.85 m³/s) Mar. 1, 1938, river level below intake; minimum daily discharge, about 175 ft³/s (4.96 m³/s) Sept. 22, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft³/s (425 m³/s) Mar. 23, gage height, 10.65 ft (3.246 m); minimum 182 ft³/s (5.15 m³/s) Sept. 29, 30, gage height, 0.95 ft (0.290 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	940	709	1030	809	500	312	3100	2810	438	1550	471	433
2	1840	566	951	784	470	329	3100	2300	396	1290	455	406
3	2240	857	901	770	450	322	3080	2000	433	930	553	401
4	2930	1720	861	779	430	301	3040	1650	471	789	571	385
5	2260	1280	848	864	420	290	3000	1430	466	685	494	380
6	1890	1020	824	1020	410	289	2990	1300	385	804	466	391
7	1690	929	978	1000	400	300	2500	1190	589	797	460	385
8	1280	872	1120	1010	390	356	2350	1410	968	692	444	380
9	1140	779	976	972	380	609	2500	1580	848	633	422	385
10	1260	751	862	899	374	692	5800	1330	797	391	417	427
11	1170	863	848	855	375	1770	7800	1140	768	626	460	422
12	1100	1180	1010	1940	348	2260	6000	1090	679	639	541	417
13	1290	1240	1110	2060	345	1330	4500	1100	477	471	565	411
14	1170	1050	1140	1500	316	889	3600	1060	666	317	506	391
15	985	961	1060	1280	312	741	3500	968	692	298	500	375
16	886	900	1020	1210	303	639	3360	870	789	294	444	449
17	821	842	1160	1120	303	572	2860	804	848	298	401	483
18	795	794	1140	1070	333	2130	2700	747	747	331	380	692
19	779	770	968	1050	320	3790	2280	775	672	298	406	726
20	766	757	959	1030	305	3040	1830	907	672	294	449	614
21	833	756	1080	975	317	2580	1710	999	666	317	438	553
22	773	742	936	856	323	8930	1970	1070	659	341	417	523
23	762	750	771	722	338	14200	2110	848	652	417	406	506
24	763	754	724	684	367	9350	2060	699	652	449	401	488
25	784	729	1460	680	380	6330	1980	626	646	345	391	477
26	773	887	2700	757	380	4720	1970	565	633	307	385	494
27	742	2710	1940	726	360	3580	1930	523	601	289	380	411
28	719	2530	1250	671	334	2980	1930	494	601	280	380	254
29	735	1630	1040	652	336	2560	3340	466	595	370	385	198
30	744	1180	951	595	---	2840	3580	455	775	652	385	189
31	731	---	861	540	---	3110	---	444	---	547	401	---
TOTAL	35591	31508	33479	29880	10619	82141	92470	33650	19281	16741	13774	13046
MEAN	1148	1050	1080	964	366	2650	3082	1085	643	540	444	435
MAX	2930	2710	2700	2060	500	14200	7800	2810	968	1550	571	726
MIN	719	566	724	540	303	289	1710	444	385	280	380	189
(+)	+171	+302	+185	-9.6	+35.5	+758	+115	+23.3	-227	-157	-248	-248
MEAN†	1319	1352	1265	954	402	2938	3197	1108	416	383	196	187
CFSM†	2.29	2.34	2.19	1.65	0.70	5.09	5.54	1.92	0.72	0.66	0.34	0.32
IN†	2.64	2.61	2.52	1.90	0.76	5.87	6.18	2.21	0.80	0.76	0.39	0.36

CAL YR 1979 TOTAL 531773 MEAN 1457 MAX 9550 MIN 264 MEAN† 1632 CFSM† 2.83 IN† 37.87
WTR YR 1980 TOTAL 412180 MEAN 1126 MAX 14200 MIN 189 MEAN† 1185 CFSM† 2.05 IN† 27.00

† Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug, and Whigville Reservoirs, Whites Bridge Wells and Coppermine Brook, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to January 1972.

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 micromhos Feb. 16, 1971; minimum recorded, 70 micromhos many months in 1971.

WATER TEMPERATURES: Maximum, 26.5°C June 25, 27, 1971; minimum, 0.0°C on many days during winter period in 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
10...	1330	1270	92	7.0	2.0	11.0	30	3.0	9.4	85	34000	--
NOV												
13...	1445	1230	104	6.2	7.0	9.0	20	2.0	--	--	31000	--
DEC												
13...	1440	1120	100	6.3	.0	4.0	20	3.0	12.5	95	20000	--
JAN												
14...	1500	1440	90	6.6	4.5	1.0	5	1.0	14.2	100	10000	1100
FEB												
11...	1340	408	160	6.8	6.5	.5	--	2.0	13.8	96	520	68
MAR												
17...	1440	569	150	7.2	11.0	3.5	10	1.0	13.1	98	940	940
APR												
16...	1250	3350	77	7.0	11.5	10.5	5	3.0	10.1	90	10000	900
MAY												
16...	1025	879	78	6.9	18.0	15.0	6	2.0	9.7	95	1800	80
JUN												
09...	1445	844	107	6.9	13.5	15.5	10	2.0	8.8	88	5000	120
JUL												
08...	1458	683	95	6.6	24.0	20.0	10	3.0	8.0	87	260	110
AUG												
11...	1415	465	118	6.4	22.0	24.5	5	2.0	6.8	81	2600	520
SEP												
05...	1345	390	107	6.5	22.0	23.0	5	2.0	7.2	83	540	170

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
10...	4300	1000	28	13	8.1	1.8	15	9.5	9.7	6.0	65	.09
NOV												
13...	4200	1100	--	--	--	--	--	--	12	--	58	.08
DEC												
13...	1300	520	--	--	--	--	--	--	10	--	60	.08
JAN												
14...	--	840	23	12	6.6	1.7	11	10	8.8	6.4	54	.07
FEB												
11...	--	80	--	--	--	--	--	--	--	--	--	--
MAR												
17...	--	2600	--	--	--	--	--	--	16	--	125	.17
APR												
16...	--	310	20	4	5.6	1.4	16	9.0	7.8	5.6	54	.07
MAY												
16...	--	K18	--	--	--	--	--	--	11	--	73	.10
JUN												
09...	--	160	--	--	--	--	--	--	10	--	64	.09
JUL												
08...	--	140	27	10	8.0	1.7	17	9.1	10	5.6	68	.09
AUG												
11...	--	200	--	--	--	--	--	--	9.9	--	74	.10
SEP												
05...	--	96	--	--	--	--	--	--	10	--	65	.09

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 10...	223	82	--	--	.48	.13	.16	.57	.70	1.2	5.2
NOV 13...	193	74	.45	.01	.46	.13	.16	.22	.35	.81	3.6
DEC 13...	181	68	.44	.01	.45	.02	.02	.32	.34	.79	3.5
JAN 14...	210	62	--	--	.46	.18	.22	.23	.41	.87	3.9
MAR 17...	192	106	.83	.02	.85	.62	.75	.38	1.0	1.9	8.2
APR 16...	488	86	--	--	.38	.11	.13	.19	.30	.68	3.0
MAY 16...	173	86	.55	.02	.57	.14	.17	.45	.59	1.2	5.1
JUN 09...	146	73	.68	.03	.71	.18	.22	.38	.56	1.3	5.6
JUL 08...	125	76	--	--	.69	.15	.18	.39	.54	1.2	5.4
AUG 11...	92.9	67	.56	.03	.59	.08	.10	.03	.11	.70	3.1
SEP 05...	68.4	73	.66	.03	.69	.12	.15	.15	.27	.96	4.3

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	.140	.43	5	160	30	20	5.3	.00	.000	.000
NOV 13...	.130	.40	4	--	--	20	5.3	--	--	--
DEC 13...	.110	.34	5	--	--	20	3.8	--	--	--
JAN 14...	.070	.21	7	100	20	40	7.9	.00	.000	.000
MAR 17...	.220	.67	5	--	--	30	4.1	--	--	--
APR 16...	.080	.25	3	90	30	10	2.9	--	1.63	.000
MAY 16...	.150	.46	7	--	--	20	3.8	--	--	--
JUN 09...	.120	.37	5	--	--	10	11	--	--	--
JUL 08...	.150	.46	4	180	50	10	6.0	.00	2.79	.000
AUG 11...	.230	.71	5	--	--	10	4.8	--	--	--
SEP 05...	.280	.86	4	--	--	10	4.8	--	--	--

CONNECTICUT RIVER BASIN

01189999 FARMINGTON RIVER AT RAINBOW FISHWAY AT RAINBOW, CT

LOCATION.--Lat 41°54'57", long 72°24'16", Hartford County, Hydrologic Unit 01080207, at Farmington River Power Company dam, 0.2 mi (0.3 km) south of Rainbow, 0.4 mi (0.6 km) upstream from discharge station, 0.4 mi (0.6 km) upstream from Rainbow Brook, and 5.2 mi (8.4 km) downstream from West Brook.

DRAINAGE AREA.--588 mi² (1,523 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: April 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1976.

REMARKS.--Water temperatures were recorded in both the fish ladder and the tailrace of the power dam. The fish ladder is shut down approximately midway through November and reopens the beginning of April. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Fish ladder, maximum daily, 32.5°C July 21, 1977; daily recorded, 0.0°C March 17-18, 1978. Farmington River, maximum, 29.0°C July 22, 1980; minimum daily recorded, 0.0°C March 6-7, 1978, February 1, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum daily, 31.5°C July 21; minimum daily recorded, 5.5°C Nov. 14-15, April 2-3, Farmington River, maximum, 29.0°C July 22; minimum daily recorded 1.0°C Feb. 19-23, March 15-16.

TAKEN IN FISHWAY

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.0	17.0	17.0	9.5	9.0	9.0						
2	18.5	17.0	17.5	10.0	8.5	9.5						
3	17.5	17.0	17.0	10.5	9.5	10.0						
4	18.5	16.5	17.0	11.0	10.0	10.5						
5	17.0	16.5	16.5	10.0	9.5	10.0						
6	17.0	16.5	16.5	10.0	9.5	9.5						
7	16.5	16.0	16.0	9.5	9.0	9.0						
8	16.0	15.0	15.5	9.0	8.5	9.0						
9	15.0	13.5	14.5	9.5	8.5	9.0						
10	13.5	12.5	13.0	10.0	8.5	9.0						
11	12.0	11.0	11.5	10.0	9.0	9.5						
12	11.0	10.0	10.5	10.0	9.5	10.0						
13	10.5	9.5	10.0	9.5	8.0	9.0						
14	9.5	9.0	9.5	9.0	5.5	8.5						
15	9.0	9.0	9.0	8.5	5.5	8.0						
16	9.5	9.0	9.0	---	---	---						
17	10.5	9.0	10.0	---	---	---						
18	11.5	10.0	11.0	---	---	---						
19	12.5	10.5	11.5	---	---	---						
20	13.0	11.5	12.0	---	---	---						
21	14.5	12.0	13.5	---	---	---						
22	17.5	13.5	15.0	---	---	---						
23	16.5	15.5	16.0	---	---	---						
24	16.5	15.5	16.0	---	---	---						
25	16.0	15.0	15.5	---	---	---						
26	15.0	14.0	14.5	---	---	---						
27	14.0	12.5	13.0	---	---	---						
28	12.5	11.5	12.0	---	---	---						
29	11.5	10.5	11.0	---	---	---						
30	10.5	9.5	10.0	---	---	---						
31	9.5	9.0	9.5	---	---	---						
MONTH	18.5	9.0	13.0	11.0	5.5	9.5						

01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued
 TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued
 TAKEN IN FISHWAY

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1							---	---	---	11.0	9.5	10.5
2							5.5	5.5	5.5	13.0	11.0	12.0
3							7.0	5.5	6.0	17.0	12.5	14.0
4							6.0	6.0	6.0	15.0	13.5	14.0
5							6.5	6.0	6.5	17.0	14.5	15.5
6							8.0	6.0	7.0	18.5	15.0	16.0
7							9.5	7.5	8.0	17.5	16.0	16.5
8							9.0	8.5	8.5	16.5	15.5	16.0
9							8.5	8.5	8.5	16.0	14.5	15.0
10							8.5	8.0	8.0	16.0	14.0	15.0
11							9.5	8.0	8.5	14.5	14.0	14.0
12							10.0	9.0	9.5	15.5	14.0	14.5
13							10.5	9.5	10.0	16.0	14.0	15.0
14							10.5	9.5	10.0	16.5	15.0	15.5
15							10.0	9.0	9.5	16.5	15.5	16.0
16							10.0	9.5	10.0	17.0	15.5	16.0
17							10.0	9.0	9.5	19.5	16.5	17.5
18							9.5	8.0	9.0	17.0	17.0	17.0
19							10.5	8.0	9.0	18.5	17.0	17.5
20							11.5	9.0	10.0	18.5	17.0	17.5
21							12.5	10.5	11.5	18.5	17.5	18.0
22							12.5	12.0	12.0	21.0	17.0	19.0
23							12.0	11.5	11.5	22.0	17.5	20.0
24							14.0	11.0	12.0	23.5	19.5	21.0
25							13.0	11.5	12.0	21.0	19.5	20.5
26							12.5	12.0	12.0	21.5	19.5	20.5
27							12.0	11.0	11.5	21.0	19.5	20.5
28							11.5	10.5	11.0	21.5	19.5	20.0
29							10.0	8.5	9.5	22.5	19.5	21.0
30							10.0	8.5	9.0	22.0	20.5	21.0
31							---	---	---	21.5	19.5	20.5
MONTH							14.0	5.5	9.5	23.5	9.5	17.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.0	20.5	22.0	24.0	20.5	22.0	28.0	25.5	26.5	26.0	24.0	25.0
2	23.0	21.5	22.0	22.5	20.5	21.5	27.5	25.5	26.5	27.0	24.5	25.5
3	23.5	21.5	22.5	23.5	19.5	21.5	27.5	26.0	26.5	26.5	25.0	25.5
4	22.5	21.0	22.0	24.5	21.0	22.5	30.0	25.5	27.5	26.5	25.0	25.5
5	22.0	21.0	21.5	25.5	22.0	23.5	29.5	26.5	28.0	25.5	25.0	25.5
6	25.0	21.0	22.5	23.5	22.5	22.5	30.0	27.0	28.0	27.0	24.5	25.5
7	22.5	20.5	21.5	23.5	22.0	22.5	29.5	27.0	28.0	25.5	24.5	25.0
8	21.0	19.5	20.5	23.0	22.0	22.5	30.5	27.0	28.5	25.0	23.5	24.5
9	19.5	18.5	19.0	25.0	21.5	23.0	29.0	27.5	28.5	25.0	23.0	24.0
10	18.5	17.5	18.0	27.0	22.5	24.0	28.0	26.5	27.0	24.0	23.0	23.5
11	18.5	16.5	17.5	27.0	24.5	25.5	27.0	26.0	26.5	23.0	22.0	22.5
12	18.5	16.0	17.0	25.5	24.0	24.5	27.0	26.0	26.5	23.0	21.5	22.0
13	22.5	17.0	19.0	25.5	23.5	24.5	27.5	26.0	26.5	22.0	21.5	21.5
14	20.0	18.0	18.5	28.0	24.0	25.5	26.5	25.0	25.5	22.0	21.5	22.0
15	23.0	19.5	21.0	27.5	25.0	26.5	26.0	25.0	25.5	22.0	20.5	21.0
16	21.5	20.0	20.5	29.5	24.5	27.0	25.0	23.5	24.5	21.0	20.0	20.5
17	23.5	20.5	21.5	29.0	26.5	27.5	24.5	23.0	24.0	21.0	20.0	20.5
18	23.0	21.0	22.0	27.5	26.5	27.0	26.0	23.0	24.5	21.0	20.0	20.5
19	25.0	20.0	22.0	29.5	27.0	28.0	24.5	23.0	23.5	21.0	19.5	20.0
20	21.5	20.5	21.0	30.5	27.5	28.5	23.0	22.0	22.5	20.5	19.5	20.0
21	21.0	20.0	20.5	31.5	28.0	29.5	22.0	21.5	22.0	22.5	20.0	20.5
22	23.0	20.0	21.0	31.0	29.0	29.5	21.5	21.0	21.5	23.5	20.5	22.0
23	24.5	20.5	22.5	30.0	27.5	28.5	22.5	21.0	21.5	22.5	21.5	22.0
24	26.5	21.0	23.5	28.5	27.5	28.0	23.5	21.5	22.5	21.5	20.5	21.0
25	27.0	22.5	24.5	30.0	27.0	28.5	23.5	23.0	23.0	20.5	20.0	20.5
26	26.0	23.0	24.5	30.0	27.5	28.5	25.5	23.0	24.5	20.5	19.5	20.0
27	26.5	23.5	25.0	30.0	27.5	28.5	27.0	24.5	25.5	19.5	18.0	19.0
28	26.0	24.0	25.0	29.0	27.0	28.0	25.5	24.5	25.0	19.0	18.0	18.5
29	24.5	22.5	23.5	28.0	26.0	27.0	25.0	24.0	24.5	18.0	17.5	18.0
30	23.5	22.0	22.5	28.5	25.5	27.0	25.0	24.0	24.0	19.5	17.5	18.5
31	---	---	---	28.0	25.5	27.0	25.5	24.5	25.0	---	---	---
MONTH	27.0	16.0	21.5	31.5	19.5	26.0	30.5	21.0	25.5	27.0	17.5	22.0

CONNECTICUT RIVER BASIN

01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TAKEN IN TAILRACE

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

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

CONNECTICUT RIVER BASIN

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01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

TAKEN IN TAILRACE

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.0	19.5	20.0	21.0	20.0	20.5	27.0	26.0	26.0	25.5	24.0	24.5
2	21.0	20.0	20.5	21.0	20.0	20.5	27.0	26.0	26.5	26.0	24.5	25.0
3	22.0	20.0	20.5	21.0	20.0	20.5	27.5	26.0	26.5	25.5	24.5	25.0
4	21.5	20.0	21.0	21.5	20.5	21.0	27.5	26.0	26.5	25.5	24.5	25.0
5	21.5	20.5	21.0	23.0	21.0	21.5	27.5	26.5	27.0	25.5	25.0	25.5
6	22.0	21.0	21.5	23.0	21.0	22.0	28.0	27.0	27.0	25.5	24.5	25.0
7	21.5	20.5	21.0	23.0	21.5	22.5	28.0	27.0	27.5	25.0	24.5	24.5
8	20.5	19.0	20.0	23.0	22.0	22.0	28.5	27.5	27.5	24.5	23.5	24.5
9	19.5	17.5	19.0	23.0	21.5	22.0	28.5	27.0	27.5	24.0	23.5	23.5
10	18.0	16.5	17.5	22.5	21.5	22.0	28.0	27.0	27.5	23.5	22.0	23.0
11	17.5	16.0	17.0	24.0	22.5	23.0	27.5	27.0	27.0	23.0	22.0	22.5
12	17.0	16.0	16.5	24.0	22.5	23.0	---	---	---	22.5	21.5	22.0
13	17.5	16.0	17.0	24.0	22.5	23.5	---	---	---	21.5	21.5	21.5
14	18.0	16.5	17.0	25.0	23.5	24.0	26.0	25.5	25.5	21.5	21.5	21.5
15	19.5	17.5	18.5	26.0	24.0	24.5	25.5	24.5	25.0	21.5	21.0	21.0
16	20.0	18.5	19.0	26.0	23.5	24.5	24.5	24.0	24.5	21.0	20.0	21.0
17	21.0	19.0	20.0	26.5	24.0	25.0	24.0	23.5	24.0	21.0	20.0	20.5
18	21.5	20.0	21.0	26.5	24.5	25.0	24.0	23.0	23.5	20.5	20.0	20.0
19	21.0	20.0	20.5	27.5	25.0	26.0	23.5	23.0	23.5	20.5	20.0	20.0
20	21.0	20.0	20.5	27.5	26.0	26.5	23.5	23.0	23.0	20.5	19.5	20.0
21	20.5	19.0	20.0	28.0	26.5	27.0	23.0	22.5	22.5	20.5	19.5	20.0
22	20.0	19.5	19.5	29.0	27.5	28.0	22.5	21.5	22.0	21.0	20.0	20.5
23	20.5	19.5	20.0	28.5	27.0	28.0	22.0	21.5	22.0	21.5	20.5	21.0
24	22.0	20.0	21.0	28.5	27.5	28.0	22.5	22.0	22.0	21.5	20.5	20.5
25	23.0	20.5	21.5	28.5	27.5	28.0	23.0	22.5	22.5	21.0	20.0	20.5
26	23.5	21.0	22.5	28.5	27.0	28.0	23.5	22.5	23.0	20.5	19.0	19.5
27	24.5	21.5	23.0	28.5	27.5	27.5	24.5	23.0	23.5	19.5	18.0	18.5
28	24.5	22.5	23.5	28.0	27.5	27.5	24.5	23.5	24.0	18.5	17.5	18.0
29	24.0	22.0	23.5	27.5	27.0	27.5	25.0	23.5	24.0	18.0	17.0	17.5
30	23.0	21.0	22.0	27.5	26.0	26.5	25.0	24.0	24.5	18.0	17.0	17.5
31	---	---	---	26.5	25.5	26.0	25.0	24.0	24.5	---	---	---
MONTH	24.5	16.0	20.0	29.0	20.0	24.5	28.5	21.5	25.0	26.0	17.0	21.5

01190000 FARMINGTON RIVER AT RAINBOW, CT

LOCATION.--Lat 41°54'41", long 72°41'16", Hartford County, Hydrologic Unit 01080207, on left bank at Rainbow, 300 ft (91 m) from Stevens Paper Mill, 0.4 mi (0.6 km) downstream from Farmington River Power Co. dam, 1.3 mi (2.1 km) upstream from Poquonock, 6.4 mi (10.3 km) downstream from Salmon Brook, and at mile 8.2 (13.2 km).

DRAINAGE AREA.--589 mi² (1,526 km²), rev.

PERIOD OF RECORD.--August 1928 to current year. Prior to 1940, published as "at Tariffville."

REVISED RECORDS.--WSP 851: 1936. WSP 1051: 1945 (m). WSP 1301: 1937-43 (adjusted figures of monthly and yearly discharges and runoff). WSP 1431: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 35.36 ft (10.778 m) National Geodetic Vertical Datum of 1929. Prior to July 1, 1939, graphic water-stage recorder at site 5.5 mi (8.8 km) upstream at datum 94.85 ft (28.910 m) higher.

REMARKS.--Records good. Flow regulated by power plant, by Otis and West Branch Reservoirs, Colebrook River Lake, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p. 222), and by diversions for municipal supply from Barkhamsted, Nepaug, Whigville Reservoir, Whites Bridge Wells and Coppermine Brook. Chemical analyses available for water years 1953 (WSP 1290), 1958 (WSP 1571), 1968-70 (WSP 2091, 2143, 2151), 1971 (WRDC 1971).

AVERAGE DISCHARGE (adjusted to present site; adjusted for storage and diversion).--52 years, 1,094 ft³/s (30.98 m³/s), 25.48 in/yr (647 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,200 ft³/s (1,960 m³/s) Aug. 19, 1955, gage height, 23.5 ft (7.16 m), from floodmarks, by computation of flow over dam 0.4 mi (0.6 km) upstream; minimum daily, 5.1 ft³/s (0.14 m³/s) Mar. 5, 1944, Oct. 28, Nov. 11, 1945; Feb. 22, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,670 ft³/s (472 m³/s) Mar. 23, gage height, 10.71 ft (3.264 m); minimum daily, 88 ft³/s (2.49 m³/s) Feb. 10, Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	780	889	459	329	301	3180	3110	423	1310	536	473
2	1630	513	819	762	365	88	3130	2720	681	1250	456	787
3	1750	949	983	828	451	297	3010	2350	595	843	692	247
4	3010	1520	1140	692	472	228	2910	1780	715	1020	751	431
5	1680	1160	654	581	516	373	3130	1760	320	800	681	431
6	1560	1080	871	1060	467	356	3110	1320	518	933	423	509
7	1590	719	885	948	470	393	2790	1410	616	1010	565	423
8	1420	1010	1340	1050	455	573	2320	1480	1180	727	605	626
9	1290	655	727	937	409	856	2460	1820	1190	648	509	400
10	1180	878	979	180	88	484	5690	1670	832	605	473	595
11	1280	894	434	985	476	1770	7820	1240	832	626	527	555
12	1140	1070	1020	1490	273	1720	6350	1270	865	659	670	509
13	1230	1270	1290	2030	348	1120	4440	1160	555	670	626	415
14	1170	1040	1180	1390	397	704	3660	1430	832	527	659	482
15	836	849	917	1340	352	702	3530	969	659	345	575	500
16	848	929	885	1040	344	475	3510	876	1030	509	605	527
17	806	862	1150	1110	297	787	3110	1080	945	304	518	727
18	744	593	1230	1120	339	2150	2910	681	775	390	527	969
19	868	678	923	835	337	3410	2670	910	800	354	448	800
20	665	778	667	976	329	2560	2280	1010	811	148	518	637
21	712	819	1040	1250	295	2430	1810	1080	536	456	536	832
22	700	538	1050	688	555	9980	1850	1290	922	473	536	605
23	786	754	750	586	319	14900	2310	1030	800	527	546	692
24	884	798	643	560	322	9870	2320	945	787	605	518	500
25	1100	637	1000	535	277	6090	2290	637	692	518	431	595
26	674	1150	2350	569	553	4780	2280	555	787	448	585	751
27	761	2040	1930	698	364	3850	2030	585	692	148	372	337
28	553	2400	1590	665	315	3390	2190	527	616	431	585	193
29	888	1770	822	645	512	3040	3000	832	821	585	465	320
30	662	1170	846	595	---	2900	3740	423	1710	775	585	500
31	703	---	1120	504	---	3150	---	518	---	775	500	---
TOTAL	34150	30303	32124	27108	11026	83727	95830	38468	23537	19419	17023	16368
MEAN	1102	1010	1036	874	380	2701	3194	1241	785	626	549	546
MAX	3010	2400	2350	2030	555	14900	7820	3110	1710	1310	751	969
MIN	553	513	434	180	88	88	1810	423	320	148	372	193
(+)	+171	+302	+185	-9.6	+35.5	+758	+115	+23.3	-227	-157	-248	-248
MEAN†	1273	1312	1221	863	416	3459	3309	1264	558	469	301	298
CFSM†	2.16	2.23	2.07	1.47	0.71	5.87	5.62	2.15	0.95	0.80	0.51	0.51
IN†	2.49	2.49	2.39	1.70	0.77	6.77	6.27	2.48	1.06	0.92	0.59	0.57

CAL YR 1979 TOTAL 489562 MEAN 1341 MAX 10200 MIN 163 MEAN‡ 1516 CFSM‡ 2.57 IN‡ 34.41
WTR YR 1980 TOTAL 429083 MEAN 1172 MAX 14900 MIN 88 MEAN‡ 1231 CFSM‡ 2.09 IN‡ 28.50

† Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug, and Whigville Reservoirs, Whites Bridge Wells and Coppermine Brook, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡ Adjusted for diversion and change in contents.

01190045 PODUNK RIVER AT SOUTH WINDSOR, CT

LOCATION.--Lat. 41°50'07", long 72°33'43", Hartford County, Hydrologic Unit 01080205, at bridge on Pierce Road, 3 mi (5 km) northeast of South Windsor, and 1.5 mi (2.4 km) upstream from Vintons Millpond.

DRAINAGE AREA.--3.74 mi² (9.69 km²).

PERIOD OF RECORD.--Water year 1975 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01190057, 2.4 mi (3.9 km) downstream, and adjusting its discharge by multiplying by a factor of 0.29, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, DIS- FORM, TOTAL, (PER- IMMED. COLS. PER 100 ML)
OCT 17...	0915	2.6	290	6.9	12.0	9.0	10	2.0	7.6	65	540
JAN 14...	1600	4.2	265	6.8	4.5	3.0	5	3.0	13.0	96	960
APR 16...	1435	1.9	190	7.3	12.5	13.0	20	2.0	11.6	109	200
JUL 21...	1620	1.5	320	7.0	38.0	26.0	10	3.0	8.8	107	870

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINIT- Y (MG/L CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L SiO2)
OCT 17...	--	92	64	110	61	33	5.6	44	43	25	13
JAN 14...	45	--	180	88	47	27	5.1	41	39	22	11
APR 16...	K18	--	K9	59	27	18	3.5	32	26	19	6.5
JUL 21...	380	--	94	120	64	39	6.5	60	50	26	15

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 17...	183	.25	1.28	197	1.7	.00	.00	.50	.50	2.2	9.7
JAN 14...	151	.21	1.71	177	2.0	.03	.04	.47	.50	2.5	11
APR 16...	133	.18	.68	143	1.1	.05	.06	.25	.30	1.4	6.2
JUL 21...	231	.31	.94	234	2.1	.06	.07	.28	.34	2.4	11

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 17...	.010	.03	2	20	30	0	2.7	.00	.000	.000
JAN 14...	.040	.12	2	90	100	50	3.5	.00	.000	.000
APR 16...	.040	.12	0	200	50	0	4.6	--	5.56	.000
JUL 21...	.030	.09	0	130	50	6	2.4	.00	.000	.000

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

01190057 PODUNK RIVER NEAR BURNHAM, CT

LOCATION.--Lat 41°48'56", long 72°35'53", Hartford County, Hydrologic Unit 01080205, 100 ft (30 m) downstream from Pleasant Valley Road, 1.5 mi (2.4 km) northeast of Burnham.

DRAINAGE AREA.--12.9 mi² (33.4 km²).

PERIOD OF RECORD.--June 1975 to April 20, 1979, published as "NEAR SOUTH WINDSOR", April 19, 1979, to current year.

GAGE.--Water-stage recorder. Datum of gage is 31.37 ft (9.562 m) National Geodetic Vertical Datum of 1929. Prior to April 19, 1979, water-stage recorder at site 0.9 mi (1.4 km) upstream at datum 6.55 ft (1.996 m) higher.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 910 ft³/s (25.8 m³/s) Jan. 25, 1979, gage height 8.45 ft (2.576 m), site and datum then in use; minimum daily, 0.4 ft³/s (0.011 m³/s), regulated Nov. 19, 1978, site then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 259 ft³/s (7.33 m³/s) Mar. 22, gage height, 6.69 ft (2.039 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Feb. 25 (regulated).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.1	11	11	6.4	6.5	35	22	8.1	12	5.5	5.1
2	27	9.3	10	11	6.3	6.5	28	19	7.9	8.7	5.1	4.2
3	20	45	9.4	10	6.1	6.5	26	17	7.9	8.3	8.3	3.8
4	25	41	9.4	8.9	6.3	6.6	49	15	8.3	7.1	6.0	3.7
5	14	19	9.4	8.5	6.3	6.6	55	14	7.6	7.4	4.9	3.7
6	13	14	20	7.8	6.3	6.8	36	14	6.7	15	5.2	3.8
7	10	12	17	7.8	6.6	6.8	28	12	12	7.9	6.3	3.6
8	8.4	11	14	8.7	6.7	9.0	23	29	11	6.6	4.7	3.5
9	9.7	10	12	7.5	6.9	19	27	24	8.9	7.4	4.3	3.4
10	17	15	11	7.0	6.9	10	189	16	8.9	5.7	4.0	3.4
11	23	21	11	13	6.7	89	96	14	8.4	5.7	7.3	3.3
12	19	52	10	46	6.7	27	48	15	7.6	5.3	8.2	3.3
13	17	25	14	19	6.7	21	36	19	6.9	4.9	6.0	3.2
14	13	21	17	15	6.9	18	32	18	6.6	4.8	4.9	3.3
15	11	17	12	17	7.2	20	47	14	6.6	4.7	5.3	3.4
16	9.7	14	14	16	8.2	16	34	12	10	4.6	4.9	3.3
17	8.9	13	29	13	8.4	29	28	6.5	7.9	4.3	4.4	3.6
18	10	12	15	13	7.5	116	25	3.5	6.7	4.0	4.2	8.5
19	8.4	11	10	14	7.0	44	23	8.0	6.2	4.0	4.6	5.4
20	7.8	11	8.2	13	6.6	26	21	9.8	6.0	4.5	4.7	4.1
21	8.9	11	8.2	11	6.3	55	20	14	6.0	5.2	4.5	3.8
22	8.7	10	9.1	11	7.2	191	18	16	5.9	5.4	4.3	3.8
23	8.7	10	11	13	16	88	17	12	5.8	8.0	4.1	3.6
24	14	10	13	10	10	44	17	10	5.1	6.5	4.0	3.4
25	12	9.9	58	8.4	2.0	43	17	9.2	4.8	4.7	4.0	3.4
26	9.7	20	43	8.2	7.7	37	16	8.3	4.8	4.3	3.7	3.9
27	8.9	27	23	8.0	7.2	31	17	7.9	4.7	4.2	3.7	3.7
28	9.5	16	17	8.0	7.0	28	26	7.6	4.7	4.1	3.7	3.9
29	11	13	16	8.0	16	26	54	7.6	9.3	35	4.3	3.7
30	10	12	14	7.2	---	55	30	7.4	28	36	4.3	3.6
31	9.3	---	12	6.6	---	38	---	7.6	---	7.7	4.7	---
TOTAL	395.6	521.3	487.7	366.6	216.1	1126.3	1118	409.4	239.3	254.0	154.1	116.4
MEAN	12.8	17.4	15.7	11.8	7.45	36.3	37.3	13.2	7.98	8.19	4.97	3.88
MAX	27	52	58	46	16	191	189	29	28	36	8.3	8.5
MIN	7.8	9.1	8.2	6.6	2.0	6.5	16	3.5	4.7	4.0	3.7	3.2
CFSM	.99	1.35	1.22	.92	.58	2.81	2.89	1.02	.62	.64	.39	.30
IN.	1.14	1.50	1.41	1.06	.62	3.25	3.22	1.18	.69	.73	.44	.34

WTR YR 1980 TOTAL 5404.8 MEAN 14.8 MAX 191 MIN 2.0 CFSM 1.15 IN 15.58

01190070 CONNECTICUT RIVER AT HARTFORD, CT

LOCATION.--Lat 41°46'10", long 72°40'04", Hartford County, Hydrologic Unit 01080205, at Bulkeley Memorial Bridge on U.S. Highway 84, at Hartford, 1.5 mi (2.4 km) downstream from Podunk River and 1.2 mi (1.9 km) upstream from Hockanum River.

DRAINAGE AREA.--10,487 mi² (27,161 km²).

WATER-STAGE RECORD

PERIOD OF RECORD.--January 1905 to current year.

GAGE.--Water-stage recorder. Datum of staff gage is 0.55 ft (0.168 m) below National Geodetic Vertical Datum of 1929. Datum of gage-height record is 10.00 ft (3.048 m) below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Records prior to 1973 available at the River Forecast Center, NOAA, Bloomfield, Conn. At times of high fresh-water inflow, tide effect is eliminated. Stage data in feet at 15-minute intervals available upon request.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 313,000 ft³/s (7,450 m³/s) Mar. 20, 1936; maximum elevation, 37.05 ft (11.293 m) Mar. 21, 1936; minimum tidal elevation (1973-80), -0.91 ft (-0.277 m) Aug. 12, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87,000 ft³/s (2,070 m³/s) Apr. 12, elevation, 19.06 ft (5.809 m); minimum tidal elevation, -0.30 ft (-0.091 m) Feb. 18.

ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	8.21	8.35	6.41	5.28	3.53	17.68	19.06	9.18	4.09	4.30	3.69	3.96
	Date	5	29	1	17	21	23	12	1	9	1	5	26
	Time	0200	0045	0015	1415	0700	0200	0745	0345	2400	0430	2230	0330
Minimum	Elevation	1.34	1.52	1.02	0.27	-0.30	-0.08	4.81	0.81	0.20	-0.12	-0.13	-0.16
	Date	1	19	17	30	18	2	26	27	23	21	17	1
	Time	1730	1015	2030	2045	1200	1045	2115	0915	0700	1615	0230	1500

NOTE.--Time shown is eastern standard.

CONNECTICUT RIVER BASIN
01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	1200	1.0	93	7.1	5.5	10.0	35	7.0	10.2	90	100000	--
NOV												
19...	1110	1.0	102	6.4	9.5	6.5	15	3.0	11.6	92	23000	--
DEC												
14...	1145	1.0	105	6.4	1.0	3.0	20	4.0	12.8	95	19000	--
JAN												
15...	1315	1.0	106	7.4	8.5	5.0	5	3.0	13.5	105	20000	1200
FEB												
15...	1100	1.0	144	6.5	1.0	.5	5	2.0	13.6	94	11000	3400
MAR												
18...	1206	1.0	134	6.2	7.0	7.0	10	20	10.8	89	16000	3500
APR												
18...	1140	1.0	74	7.0	13.5	8.0	10	10	11.6	97	4400	1500
MAY												
16...	1115	1.0	120	6.9	20.0	14.5	5	5.0	9.8	95	72000	1300
JUN												
10...	1145	1.0	122	6.9	18.0	17.0	10	3.0	8.4	87	120000	2000
JUL												
09...	1200	1.0	130	7.3	28.5	23.0	8	2.0	8.6	99	14000	840
AUG												
12...	1010	1.0	154	6.8	26.0	25.5	5	4.0	6.5	80	70000	2500
SEP												
04...	1010	1.0	160	6.9	23.5	24.5	0	2.0	7.0	82	85000	4100

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
11...	11000	800	29	11	9.1	1.5	18	10	9.1	5.6	65	.09
NOV												
19...	1400	240	--	--	--	--	--	--	8.9	--	68	.09
DEC												
14...	3100	620	--	--	--	--	--	--	8.8	--	58	.08
JAN												
15...	--	1400	31	3	9.6	1.6	28	13	9.0	6.3	70	.10
FEB												
15...	--	1200	--	--	--	--	--	--	12	--	76	.10
MAR												
18...	--	5000	--	--	--	--	--	--	14	--	86	.12
APR												
18...	--	420	22	0	6.8	1.2	24	8.0	5.9	4.8	49	.07
MAY												
16...	--	1500	--	--	--	--	--	--	11	--	69	.09
JUN												
10...	--	2200	--	--	--	--	--	--	10	--	84	.11
JUL												
09...	--	23	38	7	12	1.9	31	12	12	2.5	83	.11
AUG												
12...	--	180	--	--	--	--	--	--	12	--	81	.11
SEP												
04...	--	35	--	--	--	--	--	--	13	--	81	.11

01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 11...	79	--	--	.31	.08	.10	.47	.55	.86	3.8
NOV 19...	74	.32	.01	.33	.12	.15	.25	.37	.70	3.1
DEC 14...	96	.36	.01	.37	.07	.08	.37	.44	.81	3.6
JAN 15...	74	--	--	.44	.07	.08	.31	.38	.82	3.6
FEB 15...	81	.44	.03	.47	.16	.19	.53	.69	1.2	5.1
MAR 18...	92	.66	.02	.68	.29	.35	.70	.99	1.7	7.4
APR 18...	76	--	--	.36	.07	.08	.31	.38	.74	3.3
MAY 16...	86	.33	.01	.34	.06	.07	.28	.34	.68	3.0
JUN 10...	87	.41	.01	.42	.15	.18	.33	.48	.90	4.0
JUL 09...	78	--	--	.33	.16	.19	.42	.58	.91	4.0
AUG 12...	77	.23	.01	.24	.11	.13	.02	.13	.37	1.6
SEPT 04...	94	.31	.01	.32	.10	.12	.32	.42	.74	3.3

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 11...	.060	.18	4	140	20	3	5.8	.00	.000	.000
NOV 19...	.080	.25	4	--	--	20	4.4	--	--	--
DEC 14...	.080	.25	6	--	--	10	4.7	--	--	--
JAN 15...	.050	.15	3	100	20	40	4.4	.00	.000	.000
FEB 15...	.130	.40	7	--	--	10	2.5	--	--	--
MAR 18...	.260	.80	7	--	--	10	6.0	--	--	--
APR 18...	.040	.12	2	70	20	9	3.4	--	.560	.000
MAY 16...	.040	.12	4	--	--	10	3.7	--	--	--
JUN 10...	.090	.28	5	--	--	0	2.4	--	--	--
JUL 09...	.100	.31	5	30	0	6	4.7	.00	40.4	5.50
AUG 12...	.070	.21	4	--	--	0	4.1	--	--	--
SEP 04...	.110	.34	4	--	--	0	5.5	--	--	--

CONNECTICUT RIVER BASIN

01190095 PIPER BROOK AT NEW BRITAIN, CT

LOCATION.--Lat 41°40'53", long 72°45'45", Hartford County, Hydrologic Unit 01080205, 20 ft (6 m) west of East Street on left bank, 0.5 mi (0.8 km) upstream from New Britain and Newton town line, at New Britain.

DRAINAGE AREA.--2.26 mi² (5.85 km²).

PERIOD OF RECORD.--May 7, 1980 to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 89.32 ft (27.225 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 142 ft³/s (4.02 m³/s) July 29, gage height, 2.02 ft (0.616 m).

DATE: JULY 29, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	1.5	043000	1.5	084500	1.6	130000	81	171500	11	213000	2.1
003000	1.5	044500	1.5	090000	1.6	131500	90	173000	7.7	214500	1.9
004500	1.5	050000	1.5	091500	1.6	133000	79	174500	5.2	220000	0.85
010000	1.5	051500	1.5	093000	4.1	134500	36	180000	5.7	221500	0.85
011500	1.5	053000	1.5	094500	25	140000	21	181500	4.4	223000	1.9
013000	1.5	054500	1.5	100000	78	141500	14	183000	3.9	224500	1.9
014500	1.5	060000	1.5	101500	100	143000	63	184500	3.6	230000	1.9
020000	1.5	061500	1.5	103000	122	144500	83	190000	2.2	231500	1.9
021500	1.5	063000	1.5	104500	98	150000	54	191500	2.9	233000	1.8
023000	1.5	064500	1.5	110000	92	151500	79	193000	2.9	234500	1.8
024500	1.5	070000	1.5	111500	102	153000	59	194500	2.7	240000	1.8
030000	1.5	071500	1.5	113000	115	154500	85	200000	2.5		
031500	1.5	073000	1.5	114500	142	160000	71	201500	2.5		
033000	1.5	074500	1.5	120000	102	161500	81	203000	2.3		
034500	1.5	080000	1.5	121500	113	163000	78	204500	2.3		
040000	1.5	081500	1.5	123000	96	164500	42	210000	2.2		
041500	1.5	083000	1.6	124500	100	170000	24	211500	2.1		

CONNECTICUT RIVER BASIN

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414053072454502 RAIN GAGE AT EAST STREET AT NEW BRITAIN, CT

LOCATION.--Lat 41°40'53", long 72°45'45", Hartford County, Hydrologic Unit 01080205, 20 ft (6 m) west of East Street on left bank, 0.5 mi (0.8 km) upstream from New Britain and Newington town line, in Piper Brook drainage basin, at New Britain.

PERIOD OF RECORD.--July 10, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.24 in (6.10 mm) July 23; maximum for 15 minutes, 0.47 in (11.9 mm) July 23; maximum for 30 minutes 0.90 in (22.9 mm) July 23; maximum hourly, 1.07 in (27.2 mm) July 23; maximum daily, 1.86 in (47.2 mm) July 29.

DATE: JULY 29, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
091500	0.01	104500	0.06	121500	0.13	134500	0.01	151500	0.08	164500	0.000
093000	0.09	110000	0.05	123000	0.08	140000	0.02	153000	0.08	170000	0.000
094500	0.05	111500	0.08	124500	0.06	141500	0.05	154500	0.07	171500	0.01
100000	0.06	113000	0.15	130000	0.04	143000	0.07	160000	0.05		
101500	0.11	114500	0.14	131500	0.04	144500	0.07	161500	0.04		
103000	0.05	120000	0.11	133000	0.02	150000	0.07	163000	0.01		

CONNECTICUT RIVER BASIN

01190500 SOUTH BRANCH PARK RIVER AT HARTFORD, CT

LOCATION.--Lat 41°44'02", long 72°42'51", Hartford County, Hydrologic Unit 01080205, on left bank 100 ft (30 m) downstream from bridge on Newfield Avenue in Hartford, 0.7 mi (1.1 km) downstream from confluence of Trout Brook and Piper Brook, and 3.3 mi (5.3 km) upstream from confluence with North Branch.

DRAINAGE AREA.--39.9 mi² (103.3 km²).

PERIOD OF RECORD.-- October 1936 to current year.

REVISED RECORDS.--WSP 1201: 1939-40(P), 1941(M), 1943-44(P), 1950. WSP 1431: 1955.

GAGE.--Water-stage recorder. Datum of gage is 25.51 ft (7.775 m) National Geodetic Vertical Datum of 1929. Prior to July 6, 1972, water-stage recorder 150 ft (46 m) upstream at datum 5.56 ft (1.695 m) higher. Apr. 10, 1973 to Aug. 25, 1975, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by dams upstream and by storage and diversion at Hartford water-supply reservoirs on headwater streams. Some regulation at high flow by Talcott, South, Burnt Hill, and Bugbee Detention Reservoirs on tributaries of Trout Brook.

AVERAGE DISCHARGE.--44 years, 74.6 ft³/s (2.113 m³/s), 25.39 in/yr (645 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft³/s (159 m³/s) Oc. 3, 1979, from rating; maximum gage height, 19.65 ft (5.989 m), Aug. 19, 1955, from floodmarks, site and datum then in use; minimum daily discharge, 3.5 ft³/s (0.099 m³/s) July 16, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 12, 1936, reached a stage of 12.1 ft (3.69 m), site and datum then in use, determined by Hartford City Engineers from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,630 ft³/s (159 m³/s) Oct. 3, gage height, 13.19 ft (4.020 m); minimum, 8.1 ft³/s (0.23 m³/s) Mar. 3, minimum gage height, 1.70 ft (0.518 m) Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	31	51	49	12	13	133	110	20	65	16	20
2	72	42	51	48	12	11	100	90	30	67	23	12
3	1710	275	49	43	12	13	82	76	22	55	62	13
4	523	74	51	42	12	15	311	62	20	48	21	12
5	119	48	54	53	12	19	185	62	19	110	20	11
6	84	42	110	45	12	18	102	65	18	197	32	11
7	65	45	56	43	12	17	82	63	146	60	28	10
8	55	37	48	40	13	39	78	190	42	53	26	9.6
9	71	46	51	42	13	37	240	82	33	37	21	11
10	109	76	53	37	13	23	1640	52	45	31	18	21
11	86	126	51	86	13	471	371	47	42	28	33	19
12	69	217	78	183	13	53	247	74	35	22	40	11
13	62	80	65	53	13	36	183	55	33	20	18	10
14	47	78	49	46	13	88	173	53	25	20	15	9.6
15	44	65	60	43	13	56	293	47	18	20	17	9.6
16	40	58	70	48	13	39	157	45	32	19	14	9.6
17	38	53	53	45	14	94	121	42	19	28	12	15
18	37	51	53	36	15	447	108	41	17	22	12	99
19	35	53	43	32	16	88	84	44	17	19	12	17
20	33	60	43	30	17	58	76	45	17	19	22	12
21	29	54	42	28	19	434	78	155	15	20	14	11
22	27	48	43	27	20	1350	66	72	13	23	12	10
23	29	48	45	35	36	298	61	55	14	82	12	11
24	45	46	427	30	23	155	58	45	17	21	11	16
25	32	49	113	18	19	242	58	36	27	15	10	20
26	31	214	70	16	19	155	56	30	22	13	18	27
27	27	140	61	15	16	115	65	31	27	12	21	21
28	33	68	56	15	15	96	268	36	21	12	21	17
29	35	58	53	14	13	90	426	36	104	237	20	16
30	31	54	48	14	---	330	153	30	207	42	12	12
31	29	---	46	14	---	173	---	22	---	18	30	---
TOTAL	3753	2336	2143	1270	443	5073	6055	1893	1117	1435	643	503.4
MEAN	121	77.9	69.1	41.0	15.3	164	202	61.1	37.2	46.3	20.7	16.8
MAX	1710	275	427	183	36	1350	1640	190	237	237	62	99
MIN	27	31	42	14	12	11	56	22	13	12	10	9.6
CFSM	3.03	1.95	1.73	1.03	.38	4.11	5.06	1.53	.93	1.16	.52	.42
IN.	3.50	2.18	2.00	1.18	.41	4.73	5.65	1.76	1.04	1.34	.60	.47

CAL YR 1979 TOTAL 36815.6 MEAN 101 MAX 2320 MIN 9.6 CFSM 2.53 IN 34.32
WTR YR 1980 TOTAL 26664.4 MEAN 72.9 MAX 1710 MIN 9.6 CFSM 1.83 IN 24.86

01191000 NORTH BRANCH PARK RIVER AT HARTFORD, CT

LOCATION.--Lat 41°47'03", long 72°42'31", Hartford County, Hydrologic Unit 01080205, on right bank 60 ft (18 m) downstream from stone-arch bridge on Albany Avenue in Hartford, and 3 mi (5 km) upstream from confluence with South Branch.

DRAINAGE AREA.--25.1 mi² (65.0 km²).

PERIOD OF RECORD.-- October 1936 to current year.

REVISED RECORDS.--WSP 891: 1939. WSP 1201: 1937(M), 1938, 1939(M), 1940, 1941(M), 1942(P), 1943, 1944(M), 1945, 1946(P), 1947(M), 1948-49(P), 1950. WSP 1501: 1956.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 34.20 ft (10.424 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for no gage-height record Dec. 8 to Jan. 8, which are fair. Some regulation at small dams upstream and by storage and diversion at a Hartford water supply reservoir on headwater stream. High flow regulated by Bloomfield, Cold Spring, Wintonbury, and Blue Hills Reservoirs, on tributaries of North Branch Park River. Chemical analyses available for water years 1968 (WSP 2091), 1969 (WSP 2143), 1970 (WSP 2151), and 1954 in district office at Hartford, Conn.

AVERAGE DISCHARGE.--44 years, 38.5 ft³/s (1.090 m³/s), 20.83 in/yr (529 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Aug. 19, 1955, from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement of peak flow 2.6 mi (4.2 km) upstream; maximum gage height, 18.8 ft (5.73 m) Aug. 19, 1955, from floodmarks; minimum discharge, 0.04 ft³/s (0.001 m³/s) Sept. 24, 1943, gage height, 0.75 ft (0.229 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Sept. 24, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 12, 1936, reached a stage of 11.2 ft (3.42 m), as determined from floodmarks by city engineers of Hartford, discharge about 2,800 ft³/s (about 79 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft³/s (49.8 m³/s) Oct. 3, gage height, 8.89 ft (2.710 m); minimum, 1.6 ft³/s (0.045 m³/s) Sept. 9, 10, gage height, 1.21 ft (0.369 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	11	20	16	7.0	7.4	73	66	9.5	21	5.5	16
2	53	11	18	16	6.8	7.6	51	49	13	13	5.8	4.5
3	567	134	16	14	6.9	7.6	43	39	9.5	11	21	5.5
4	454	58	18	13	7.1	8.3	167	33	9.0	6.8	8.5	3.8
5	69	28	16	18	7.1	10	111	30	7.5	11	8.0	3.3
6	47	20	17	14	7.1	12	72	25	6.1	17	5.5	3.3
7	31	17	51	13	7.1	11	53	25	25	6.1	5.5	2.8
8	22	15	30	11	7.4	50	46	87	16	4.7	4.7	2.1
9	25	13	20	10	7.5	61	92	55	13	4.7	4.3	1.7
10	39	20	18	16	7.5	24	1000	33	9.0	5.3	3.1	1.7
11	50	36	25	104	7.5	290	230	25	9.0	5.0	18	2.0
12	40	118	35	44	7.5	79	88	29	7.1	4.7	15	2.3
13	39	42	20	35	7.5	41	66	29	5.5	3.8	6.1	2.6
14	25	35	17	23	7.7	37	64	28	5.5	4.3	5.0	2.6
15	19	26	16	24	8.1	42	160	25	5.3	4.7	6.1	4.0
16	17	21	35	19	8.1	41	77	22	12	3.8	5.8	3.3
17	15	18	22	17	8.0	87	50	21	6.8	4.0	4.3	8.0
18	14	16	19	19	8.5	356	41	21	5.3	4.3	3.6	76
19	14	15	16	19	9.0	96	36	21	4.5	4.0	4.3	8.0
20	13	14	15	15	10	56	35	21	4.5	4.7	4.3	4.5
21	13	14	14	14	11	181	30	75	4.5	6.8	4.0	3.6
22	13	14	13	14	12	747	27	35	4.5	6.1	3.6	3.4
23	14	15	13	21	19	224	26	25	4.3	20	3.3	3.8
24	21	14	250	11	17	106	25	20	4.7	9.5	3.4	3.6
25	14	14	70	10	14	134	24	16	4.5	5.3	2.9	3.4
26	11	93	35	9.1	13	94	28	14	4.5	4.0	3.3	4.3
27	12	126	25	9.0	11	66	29	15	4.0	2.8	3.3	3.6
28	12	50	20	9.0	10	54	75	16	3.6	3.3	3.3	3.1
29	14	31	18	7.8	8.2	50	298	16	21	44	2.8	3.3
30	12	23	16	8.2	---	158	106	14	82	19	2.8	3.3
31	11	---	15	7.0	---	92	---	11	---	7.1	15	---
TOTAL	1736	1062	933	580.1	268.6	3229.9	3223	941	320.7	271.8	192.1	193.4
MEAN	56.0	35.4	30.1	18.7	9.26	104	107	30.4	10.7	8.77	6.20	6.45
MAX	567	134	250	104	19	747	1000	87	82	44	21	76
MIN	11	11	13	7.0	6.8	7.4	24	11	3.6	2.8	2.8	1.7
CFSM	2.23	1.41	1.20	.75	.37	4.14	4.26	1.21	.43	.35	.25	.26
IN.	2.57	1.57	1.38	.86	.40	4.79	4.78	1.39	.48	.40	.28	.29
CAL YR 1979	TOTAL	18970.1	MEAN	52.0	MAX	1120	MIN	3.1	CFSM	2.07	IN	28.11
WTR YR 1980	TOTAL	12951.6	MEAN	35.4	MAX	1000	MIN	1.7	CFSM	1.41	IN	19.19

01192370 PORTER BROOK NEAR MANCHESTER, CT

LOCATION.--Lat 41°45'55", long 72°30'12", Hartford County, Hydrologic Unit 01080205, on right bank at Oak Grove Nature Center on Oak Grove Street, 300 ft (91 m) upstream from bridge on Autumn Street, Manchester, 0.5 mi (0.8 km) upstream from confluence with Birch Mountain Brook to form Hop Brook.

DRAINAGE AREA.--2.20 mi² (5.70 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 267.34 ft (81.485 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 25, 1975, analog recorder at same site and datum.

REMARKS.--Records good. Flow affected by storage in the Howard and Porter reservoirs and by diversion from these reservoirs for the water supply of the city of Manchester.

AVERAGE DISCHARGE.--5 years, 2.82 ft³/s (0.080 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122 ft³/s (3.46 m³/s) Jan. 25, 1979, gage height, 3.55 ft (1.116 m); minimum, 0.10 ft³/s (0.003 m³/s) Aug. 29, 30, Sept. 1, 2, 1978, gage height, 1.78 ft (0.543 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft³/s (1.84 m³/s) Apr. 10, gage height, 3.13 ft (0.954 m); minimum, 0.53 ft³/s (0.015 m³/s) Sept. 10, minimum gage height, 2.09 ft (0.637 m) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.6	1.3	1.3	.97	1.1	7.0	4.4	1.8	1.4	.74	.68
2	1.8	1.4	1.3	1.3	.82	1.1	6.2	4.1	2.2	1.1	.80	.62
3	2.2	4.4	1.3	1.3	.82	1.0	5.4	3.8	2.4	1.0	1.5	.62
4	1.2	1.7	1.3	1.3	.82	1.0	8.8	3.6	2.5	.87	.87	.62
5	1.2	1.4	1.3	1.3	.82	1.0	8.3	3.3	2.5	1.3	.74	.62
6	1.2	1.3	1.4	1.3	.76	1.0	5.8	3.6	2.4	1.4	.80	.62
7	1.0	1.2	2.2	1.4	.76	1.0	5.1	3.6	5.4	.87	.74	.57
8	.89	1.2	1.4	1.3	.76	1.8	4.7	3.3	3.8	.87	.68	.57
9	1.1	1.2	1.3	1.3	.76	2.2	6.6	5.4	3.1	.87	.62	.57
10	1.1	2.2	1.6	1.3	.76	1.9	36	4.1	3.8	.80	.57	.57
11	1.3	2.1	1.4	1.7	.76	6.2	14	3.6	3.3	.80	.87	.57
12	1.6	2.7	1.3	4.1	.76	2.5	9.8	4.1	2.9	.80	1.0	.57
13	1.2	1.7	1.6	2.2	.76	2.2	8.8	3.8	2.5	.74	.68	.57
14	1.0	1.7	1.6	1.9	.89	3.1	7.8	3.3	2.5	.74	.68	.52
15	1.0	1.6	1.2	1.7	.89	2.5	12	2.7	2.4	.74	.74	.57
16	.97	1.4	1.2	1.7	.89	2.4	8.3	2.5	2.7	.74	.62	.52
17	.97	1.3	1.8	1.4	.89	2.7	6.6	2.5	1.8	.87	.57	.68
18	.89	1.4	1.3	1.4	.82	6.6	6.2	2.7	1.6	.74	.62	1.6
19	.82	1.3	1.2	1.4	.82	2.9	5.4	2.7	1.7	.68	.68	.68
20	.97	1.3	1.1	1.4	1.0	2.7	4.7	2.5	1.6	.74	.62	.62
21	.89	1.3	1.1	1.4	1.6	7.4	4.7	4.1	1.6	.68	.62	.62
22	.89	1.3	1.1	1.3	2.2	26	4.4	3.8	1.4	.80	.62	.57
23	1.9	1.3	1.1	1.3	2.2	15	4.1	3.1	1.2	2.6	.68	.52
24	1.3	1.3	1.1	1.3	1.4	12	3.8	2.7	1.1	.95	.62	.57
25	1.3	1.3	3.3	1.1	1.3	12	3.8	2.4	.90	.74	.57	.62
26	1.4	2.7	1.4	1.1	1.2	9.3	3.8	2.2	.85	.62	.57	.74
27	1.4	1.7	1.3	1.1	1.2	13	3.8	2.7	.80	.68	.62	.68
28	1.7	1.6	1.3	1.1	1.2	7.8	5.8	2.7	.80	.62	.62	.57
29	1.7	1.3	1.3	1.1	1.1	7.4	10	2.4	1.7	4.3	.68	.57
30	1.6	1.3	1.3	.97	---	9.8	5.8	1.9	3.0	1.9	.62	.62
31	1.6	---	1.3	.97	---	7.8	---	1.8	---	1.0	.68	---
TOTAL	40.69	49.2	43.7	44.74	29.93	174.4	227.5	104.4	66.25	32.96	22.04	19.04
MEAN	1.31	1.64	1.41	1.44	1.03	5.63	7.58	3.37	2.21	1.06	.71	.63
MAX	2.6	4.4	3.3	4.1	2.2	26	36	8.3	5.4	4.3	1.5	1.6
MIN	.82	1.2	1.1	.97	.76	1.0	3.8	1.8	.80	.62	.57	.52
CAL YR 1979	TOTAL	1180.12	MEAN	3.23	MAX	62	MIN	.54				
WTR YR 1980	TOTAL	854.85	MEAN	2.34	MAX	36	MIN	.52				

CONNECTICUT RIVER BASIN

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01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument. In addition to the water-quality monitor record, samples were collected approximately once a month.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 499 micromhos Jan. 21, 1979; minimum, 50 micromhos Jan. 25, 1979.

WATER TEMPERATURE: Maximum, 29.0°C July 5, 1977; minimum, 0.0°C on several days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 254 micromhos Feb. 26; minimum, 67 micromhos Nov. 10.

WATER TEMPERATURES: Maximum, 26.5°C Aug. 6; minimum, 0.5°C Feb. 17-19, 29, March 1-2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
17...	1045	1.0	167	7.5	12.0	11.0	10	2.0	10.8	97	460	--
NOV												
20...	0930	1.5	162	6.1	13.0	6.0	10	2.0	12.4	99	8200	--
DEC												
14...	1315	1.5	165	6.8	2.0	5.0	10	2.0	12.8	100	140	--
JAN												
18...	1430	1.5	165	6.4	9.0	5.0	5	1.0	13.4	105	88	K2
FEB												
13...	1000	.70	185	6.4	1.0	3.0	5	1.0	14.0	104	380	K2
MAR												
21...	1500	6.2	112	7.2	12.0	5.0	10	2.0	12.6	98	56	K16
APR												
17...	1455	5.3	130	6.9	13.0	11.5	5	2.0	10.9	99	160	<1
MAY												
20...	1530	2.8	165	7.0	20.5	18.0	6	2.0	9.8	96	200	55
JUN												
16...	1530	2.6	140	6.7	22.0	20.0	5	3.0	8.4	91	560	26
JUL												
21...	1415	.70	202	6.9	34.5	27.0	7	2.0	7.4	91	120	26
AUG												
12...	1425	.80	185	6.8	28.0	23.0	5	2.0	7.5	88	11000	140
SEP												
04...	1410	.60	195	6.9	27.0	22.0	4	2.0	7.6	86	15000	40

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
17...	K6	K16	51	30	16	2.7	21	13	26	13	108	.15
NOV												
20...	K4	19	--	--	--	--	--	--	24	--	110	.15
DEC												
14...	140	110	--	--	--	--	--	--	24	--	106	.14
JAN												
18...	--	56	46	10	14	2.6	36	14	24	12	102	.14
FEB												
13...	--	K2	--	--	--	--	--	--	27	--	107	.15
MAR												
21...	--	140	--	--	--	--	--	--	18	--	84	.11
APR												
17...	--	K5	--	--	--	--	22	12	19	--	93	.13
MAY												
20...	--	25	--	--	--	--	--	--	23	--	106	.14
JUN												
16...	--	120	--	--	--	--	--	--	21	--	95	.13
JUL												
21...	--	40	62	24	20	3.0	38	15	29	12	144	.20
AUG												
12...	--	260	--	--	--	--	--	--	25	--	128	.17
SEP												
04...	--	34	--	--	--	--	--	--	27	--	122	.17

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 17...	.29	117	--	--	.54	.01	.01	.28	.29	.83	3.7
NOV 20...	.45	115	.48	.00	.48	.01	.01	.57	.58	1.1	4.7
DEC 14...	.43	125	.50	.00	.50	.01	.01	.13	.14	.64	2.8
JAN 18...	.41	103	--	--	.59	.04	.05	.12	.16	.75	3.3
FEB 13...	.20	120	.54	.01	.55	.24	.29	.00	.16	.71	3.1
MAR 21...	1.41	78	.36	.01	.37	.05	.06	.11	.16	.53	2.3
APR 17...	1.33	96	--	--	.56	.06	.07	.26	.32	.88	3.9
MAY 20...	.80	118	1.1	.03	1.1	.08	.10	.08	.16	1.3	5.6
JUN 16...	.67	106	.67	.01	.68	.08	.10	.24	.32	1.0	4.4
JUL 21...	.27	149	--	--	.70	.03	.04	.18	.21	.91	4.0
AUG 12...	.28	130	.69	.01	.70	.02	.02	.09	.11	.81	3.6
SEP 04...	.20	141	.66	.00	.66	.06	.07	.12	.18	.84	3.7

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 17...	.010	.03	2	70	10	2	1.9	.00	.000	.000
NOV 20...	.010	.03	2	--	--	10	5.1	--	--	--
DEC 14...	.010	.03	2	--	--	0	2.9	--	--	--
JAN 18...	.000	.00	2	50	20	50	5.4	.00	.000	.000
FEB 13...	.010	.03	1	--	--	10	.3	--	--	--
MAR 21...	.030	.09	15	--	--	10	3.8	--	--	--
APR 17...	.020	.06	--	--	--	--	3.0	--	.000	.000
MAY 20...	.020	.06	8	--	--	10	3.3	--	--	--
JUN 16...	.020	.06	34	--	--	10	4.6	--	--	--
JUL 21...	.010	.03	3	90	30	2	1.9	.00	1.80	.000
AUG 12...	.050	.15	4	--	--	0	1.0	--	--	--
SEP 04...	.080	.25	4	--	--	0	2.4	--	--	--

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	202	112	180	150	143	145	150	140	144	203	189	196
2	181	108	173	154	116	135	142	135	139	193	183	186
3	175	117	156	134	71	110	143	135	140	194	164	184
4	174	167	170	141	132	137	142	133	139	201	178	188
5	180	128	166	149	133	137	141	136	139	201	187	194
6	177	165	173	132	127	130	140	89	134	195	181	187
7	165	155	159	135	119	128	149	84	128	198	146	187
8	179	158	170	138	116	129	148	138	143	195	167	180
9	178	138	166	142	110	136	145	136	140	200	175	190
10	180	168	173	141	67	123	140	105	134	201	187	195
11	167	154	163	150	69	114	140	134	137	203	104	175
12	160	108	145	138	68	114	141	133	136	156	102	129
13	162	155	169	142	124	134	150	114	136	184	152	170
14	155	140	146	143	131	139	175	136	154	191	176	182
15	151	140	146	125	96	115	184	175	177	197	177	190
16	166	147	155	141	93	118	180	161	172	196	184	189
17	169	157	164	136	130	133	182	122	164	201	180	192
18	171	157	164	141	107	132	190	175	181	200	183	193
19	163	156	160	144	107	130	184	175	180	202	175	192
20	176	152	166	141	128	137	181	153	167	199	179	190
21	178	164	171	146	134	140	184	170	176	198	186	192
22	190	168	177	151	144	146	219	186	207	199	165	182
23	194	172	180	146	139	143	221	154	213	197	161	182
24	195	158	189	144	134	139	225	210	220	198	179	189
25	189	157	176	152	141	148	218	105	161	204	192	197
26	171	163	166	162	91	138	195	180	188	206	157	198
27	170	153	164	159	154	158	211	194	201	202	183	193
28	165	152	158	160	151	156	212	202	205	209	185	199
29	156	134	147	155	149	152	207	198	202	209	173	205
30	154	143	149	152	145	148	202	182	192	---	---	---
31	152	144	149	---	---	---	201	192	198	209	196	202
MONTH	202	108	164	162	67	135	225	84	166	209	102	188
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	132	115	123	131	122	126
2	---	---	---	---	---	---	127	118	123	135	127	130
3	---	---	---	---	---	---	---	---	---	155	129	145
4	---	---	---	---	---	---	---	---	---	154	141	147
5	---	---	---	---	---	---	---	---	---	161	146	152
6	199	182	192	---	---	---	---	---	---	157	147	151
7	211	192	205	---	---	---	---	---	---	156	141	151
8	215	199	204	---	---	---	---	---	---	154	121	132
9	207	196	201	---	---	---	---	---	---	130	122	126
10	211	192	202	---	---	---	---	---	---	136	118	127
11	211	196	204	---	---	---	122	108	115	142	123	132
12	219	204	208	---	---	---	127	120	123	135	129	131
13	217	205	211	---	---	---	139	118	125	135	131	133
14	222	194	213	---	---	---	---	---	---	140	127	130
15	222	208	213	---	---	---	---	---	---	152	131	143
16	247	212	226	---	---	---	137	129	132	157	117	143
17	234	205	216	---	---	---	134	127	130	156	141	146
18	216	202	207	---	---	---	132	123	129	150	135	142
19	219	200	205	---	---	---	144	122	131	150	138	145
20	218	156	190	---	---	---	146	127	135	165	144	155
21	196	169	183	---	---	---	162	122	143	166	129	149
22	210	132	169	97	68	76	158	145	153	136	124	130
23	207	158	187	102	85	94	153	143	149	151	133	141
24	230	199	214	113	93	105	151	136	142	152	148	150
25	250	228	242	114	108	110	150	143	145	160	147	152
26	254	244	249	126	112	119	149	139	143	155	149	152
27	---	---	---	130	121	126	148	137	141	148	136	142
28	---	---	---	129	115	123	139	125	131	140	128	135
29	---	---	---	126	120	123	121	99	106	143	127	135
30	---	---	---	124	118	121	130	104	115	155	134	143
31	---	---	---	126	114	120	---	---	---	161	146	155
MONTH	254	132	207	130	68	112	162	99	132	166	117	141

CONNECTICUT RIVER BASIN

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE				JULY				AUGUST		
1	173	154	162									
2	171	156	165									
3	167	157	162									
4	---	---	---									
5	---	---	---									
6	---	---	---									
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	173	154	163									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

CONNECTICUT RIVER BASIN

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01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	21.0	16.0	18.5	21.5	16.5	19.0	22.0	21.0	21.5	24.0	21.5	22.5
2	19.5	18.0	18.5	20.0	18.0	18.5	25.5	21.5	23.5	25.0	22.0	23.5
3	20.5	17.5	18.5	20.5	18.0	19.0	25.5	22.0	23.5	24.0	21.5	22.5
4	20.0	18.0	19.5	23.5	18.0	20.5	25.0	22.5	23.5	22.5	20.5	21.5
5	19.5	16.5	18.0	22.0	19.0	20.5	25.5	22.0	23.5	21.0	20.5	21.0
6	19.5	15.5	17.0	23.0	19.5	21.0	26.5	22.5	24.0	22.0	20.0	21.0
7	17.5	16.0	16.5	22.0	17.5	19.5	25.0	22.0	23.5	21.5	19.5	20.5
8	17.0	15.0	16.0	19.5	18.0	19.0	26.0	22.0	24.0	20.5	18.0	19.0
9	15.0	13.5	14.0	22.0	17.0	19.5	26.0	22.5	24.0	19.5	17.0	18.5
10	14.5	13.5	14.0	23.0	19.5	21.0	23.5	21.0	22.5	20.5	18.0	19.0
11	15.0	13.0	14.0	23.0	19.5	21.0	23.0	21.5	22.5	19.5	17.0	18.5
12	17.5	12.5	15.0	22.5	20.0	21.0	23.0	21.0	22.0	20.5	17.5	19.0
13	18.0	14.0	16.0	22.5	18.5	20.5	22.0	20.0	21.0	20.5	19.0	20.0
14	21.0	15.0	17.5	23.0	18.5	21.0	21.0	20.0	20.5	20.5	19.5	20.0
15	20.0	16.0	18.0	24.0	20.0	21.5	21.5	20.0	20.5	20.5	18.0	19.0
16	21.0	17.5	19.0	25.0	21.0	23.0	20.5	18.0	19.5	18.5	17.0	18.0
17	20.5	17.0	18.5	25.5	22.5	24.0	21.0	17.5	19.0	19.5	16.5	18.0
18	19.0	16.5	17.5	25.0	21.5	23.0	21.0	18.0	19.5	21.5	18.0	20.0
19	19.5	16.5	17.5	23.5	21.5	22.5	20.5	19.5	20.0	19.5	16.5	18.0
20	17.0	15.0	16.5	25.5	22.0	23.5	20.0	18.5	19.5	19.5	16.5	18.0
21	18.0	15.0	16.5	26.0	22.5	24.5	18.5	18.0	18.5	22.0	18.0	20.0
22	21.0	15.5	18.0	25.5	22.5	24.0	20.5	18.0	19.0	23.5	20.5	22.0
23	21.0	16.5	19.0	25.0	22.5	23.5	22.0	18.5	20.0	22.5	20.0	21.5
24	21.5	17.5	20.0	24.5	20.5	22.5	23.0	18.5	21.0	19.5	17.0	18.5
25	22.5	19.5	21.0	23.5	20.0	21.5	23.5	20.0	21.5	17.0	16.5	17.0
26	22.5	20.0	21.0	24.0	20.0	22.0	23.5	20.0	21.5	17.5	16.0	16.5
27	25.0	20.5	22.0	23.5	21.0	22.0	24.0	21.0	22.5	16.0	14.0	15.0
28	21.0	19.5	20.5	24.0	21.0	22.5	23.0	21.5	22.0	15.5	13.5	14.5
29	20.0	18.0	19.0	22.5	20.5	21.5	21.0	20.0	20.5	15.5	13.5	14.5
30	19.0	17.0	17.5	23.5	20.0	21.5	21.0	20.0	20.0	16.0	14.0	15.0
31	---	---	---	24.0	20.0	22.0	23.0	20.0	21.5	---	---	---
MONTH	25.0	12.5	18.0	26.0	16.5	21.5	26.5	17.5	21.5	25.0	13.5	19.0

CONNECTICUT RIVER BASIN

01192480 HOP BROOK AT MANCHESTER, CONN.

LOCATION.--Lat 41°46'22", long. 72°33'26", Hartford County, Hydrologic Unit 01080205, on right bank, 100 ft (30 m) upstream from bridge on Olcott Street, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--11.6 mi² (30.04 km²).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 84.53 ft (25.765 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by storage in and diversion, for public water supply for city of Manchester, from Porter, Howard, and Globe-Hollow Reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Jan. 25, 1979, gage height, 6.97 ft (2.124 m); minimum, 1.6 ft³/s (0.045 m³/s) July 26, 1979, gage height, 1.74 ft (0.530 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 342 ft³/s (9.69 m³/s) Apr. 10, gage height 4.29 ft (1.308 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	4.5	7.9	8.3	5.3	5.5	26	18	7.8	7.5	4.1	4.3
2	12	4.5	7.9	8.3	5.2	5.0	23	16	10	8.4	5.1	4.1
3	18	41	7.9	7.9	5.0	5.0	21	15	8.1	6.5	12	4.9
4	11	12	7.9	7.1	4.8	5.0	41	15	8.1	5.8	6.2	4.5
5	10	7.9	7.9	7.1	4.6	5.5	23	14	7.5	8.1	5.5	2.5
6	10	7.5	10	7.2	4.4	6.2	15	14	7.0	8.7	4.7	2.3
7	6.2	7.1	15	7.2	4.5	6.2	13	13	18	5.5	3.9	2.1
8	4.5	6.7	9.0	7.1	4.5	14	11	33	12	5.3	3.3	2.0
9	9.8	7.1	8.0	6.2	5.3	11	27	21	9.7	5.1	2.9	2.2
10	14	20	8.5	5.7	4.9	9.3	119	18	12	4.7	2.3	2.4
11	9.8	23	8.0	13	6.7	58	39	17	9.3	4.7	5.8	2.4
12	15	34	8.0	27	4.5	12	33	19	8.1	4.7	7.3	2.5
13	14	15	10	12	4.9	12	29	16	7.3	4.5	4.3	2.5
14	8.3	15	9.0	8.8	4.5	21	28	14	7.0	4.1	4.1	2.3
15	7.5	12	7.0	8.8	4.5	13	36	13	7.0	4.1	4.3	2.2
16	6.7	9.8	8.0	8.3	4.6	14	26	12	8.7	3.9	3.4	1.8
17	5.7	9.3	10	7.5	4.5	23	23	10	6.2	6.0	3.1	2.0
18	5.3	8.8	7.5	7.1	4.4	71	21	13	6.5	4.1	3.4	8.1
19	4.9	8.3	6.5	7.9	4.3	25	21	13	7.3	4.1	3.9	3.3
20	4.9	7.9	5.7	7.5	5.3	20	21	12	6.5	5.3	3.9	3.0
21	4.5	7.9	5.3	7.1	7.9	83	21	24	6.5	4.5	3.6	2.7
22	4.5	7.5	6.2	7.0	7.9	158	18	18	5.8	5.8	3.4	2.5
23	4.9	7.5	6.7	6.5	13	64	17	13	5.3	18	3.4	2.5
24	6.7	7.9	7.5	6.5	7.5	51	16	11	5.1	5.5	3.3	2.3
25	4.5	7.9	41	6.0	6.7	53	16	11	4.9	4.3	2.6	2.5
26	4.2	26	16	5.7	6.7	45	16	10	4.7	4.3	2.7	4.1
27	4.5	18	12	5.7	6.5	43	17	9.3	4.7	4.5	2.5	3.0
28	6.7	10	9.8	5.7	6.0	29	25	8.7	4.7	4.3	2.7	2.9
29	5.3	8.8	9.3	5.7	6.0	29	39	8.4	13	29	2.9	2.6
30	4.2	8.3	8.8	5.8	---	41	21	7.8	21	8.4	3.0	2.6
31	4.2	---	8.3	5.5	---	31	---	7.5	---	5.5	6.0	---
TOTAL	253.8	371.2	300.6	247.2	164.9	968.7	802	444.7	249.8	205.2	129.6	89.1
MEAN	8.19	12.4	9.70	7.97	5.69	31.2	26.7	14.3	8.33	6.62	4.18	2.97
MAX	22	41	41	27	13	158	119	33	21	29	12	8.1
MIN	4.2	4.5	5.3	5.5	4.3	5.0	11	7.5	4.7	3.9	2.3	1.8
CAL YR 1979	TOTAL	6226.4	MEAN	17.1	MAX	311	MIN	1.6				
WTR YR 1980	TOTAL	4226.8	MEAN	11.5	MAX	158	MIN	1.8				

CONNECTICUT RIVER BASIN

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01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CONN.

LOCATION.--Lat 41°46'59", long 72°35'16", Hartford County, Hydrologic Unit 01080205, on left bank at end of Preston Street, 0.2 mile upstream from bridge on Walnut Street, 1.5 miles downstream from Hop Brook, and 2.8 miles east of East Hartford.

DRAINAGE AREA.--73.4 mi² (190.1 km²).

PERIOD OF RECORD.--September 1919 to September 1921, July 1928 to September 1971. Annual maximum, water years 1972-76. October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.5 ft (16.61 m) National Geodetic Vertical Datum of 1929 (levels by Department of Engineering, city of Hartford).

REMARKS.--Records good. Flow regulated by Shenipsit Lake, small reservoirs, and industrial plants.

AVERAGE DISCHARGE (adjusted for storage).--45 years (1919-21, 1928-71) 112 ft³/s (3.172 m³/s), 20.42 in/yr (519 mm/yr); (unadjusted).--49 years (1919-21, 1928-71, 1977-80) 114 ft³/s (3.228 m³/s), 21.08 in/yr (535 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,160 ft³/s (146 m³/s) Sept. 21, 1938, gage height, 13.78 ft (4.200 m) from floodmarks, by computation of flow over dam just above gage; practically no flow at times caused by regulation; minimum daily (1919-21, 1928-71, 77-78) 1.2 ft³/s (.034 m³/s) Sept. 2, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft³/s (49.3 m³/s) Mar. 22, gage height, 8.60 ft (2.621 m); minimum daily, 35 ft³/s (0.99 m³/s) Sept. 28, 29; minimum, 32 ft³/s (0.91 m³/s) Sept. 28, 29, gage height, 1.34 ft (0.408 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	67	93	104	57	52	218	400	80	93	60	46
2	132	68	87	114	55	51	201	350	100	75	96	46
3	143	197	86	116	54	51	192	300	90	70	69	46
4	147	185	85	110	54	50	299	270	86	61	59	44
5	138	124	85	108	54	50	307	250	71	61	56	43
6	140	99	123	104	54	50	242	230	66	130	100	41
7	116	90	114	100	54	50	214	220	120	64	78	39
8	99	86	117	100	54	75	199	400	92	57	66	40
9	96	83	103	100	54	93	196	300	78	56	64	41
10	112	121	110	101	54	71	1050	250	82	54	85	41
11	113	130	74	112	54	380	756	220	77	54	112	40
12	116	228	43	218	54	161	549	250	71	51	100	39
13	119	170	47	138	54	95	425	250	65	48	142	39
14	104	143	42	122	54	115	355	220	63	47	108	38
15	99	123	46	122	54	102	406	200	60	48	66	39
16	89	109	85	117	54	83	342	190	89	48	52	39
17	83	100	137	113	54	114	286	180	66	53	48	41
18	79	95	113	112	54	508	262	180	62	48	52	95
19	76	94	93	113	60	260	250	180	60	44	53	50
20	75	93	57	107	60	161	239	200	60	48	51	41
21	71	91	75	106	62	340	235	250	57	52	49	38
22	71	85	77	106	65	1360	208	200	54	56	47	39
23	75	84	78	113	71	690	169	160	54	117	45	39
24	91	84	82	105	69	442	156	130	53	65	44	37
25	78	83	237	97	65	404	150	120	52	50	45	37
26	70	116	181	80	65	340	150	110	50	47	46	41
27	70	108	137	68	60	288	160	120	49	45	45	37
28	69	104	131	67	57	228	200	130	47	45	45	35
29	75	102	119	65	55	191	600	130	77	248	44	35
30	71	98	110	63	---	277	450	110	211	199	46	37
31	68	---	106	60	---	232	---	90	---	90	48	---
TOTAL	2994	3360	3073	3261	1665	7364	9466	6590	2242	2224	2021	1263
MEAN	96.6	112	99.1	105	57.4	238	316	213	74.7	71.7	65.2	42.1
MAX	147	228	237	218	71	1360	1050	400	211	248	142	95
MIN	68	67	42	60	54	50	150	90	47	44	44	35

CAL YR 1979 TOTAL 55877 MEAN 153 MAX 2140 MIN 42
WTR YR 1980 TOTAL 45523 MEAN 124 MAX 1360 MIN 35

CONNECTICUT RIVER BASIN

01192516 HOCKANUM RIVER AT EAST HARTFORD, CT

LOCATION.--Lat 41°45'22", long 72°38'36", Hartford County, Hydrologic Unit 0108025, at bridge on State Highway 2, at East Hartford, 0.2 mi (0.3 km) upstream from mouth, and 4.4 mi (7.1 km) downstream from discharge station 01192500.

DRAINAGE AREA.--76.1 mi² (197.1 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	COLOR (PLATINUM COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION (%)	COLIFORM, TOTAL (COLS./100 ML)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	COLIFORM, FECAL, UM-MF (COLS./100 ML)
OCT 10...	1445	280	7.2	5	10.5	15	9.0	8.4	75	600000	--	150000
NOV 19...	1320	290	6.8	12.5	9.0	10	6.0	10.0	86	640000	--	82000
DEC 12...	1350	330	6.8	17.5	8.5	20	5.0	9.3	79	1200000	--	200000
JAN 15...	1205	265	6.6	9.0	6.0	10	3.0	11.3	90	300000	33000	--
FEB 15...	1125	385	6.7	3.5	5.0	20	3.0	13.1	102	200000	18000	--
MAR 18...	1250	230	6.3	9.0	7.0	10	20	11.0	90	50000	21000	--
APR 18...	1420	195	7.0	17.0	11.5	10	9.0	9.0	82	140000	5000	--
MAY 16...	1230	295	6.5	21.0	17.0	9	7.0	7.0	71	4800	300	--
JUN 10...	1415	310	7.0	17.0	16.5	15	6.0	6.7	68	2600	100	--
JUL 09...	1500	295	6.7	30.0	24.0	10	6.0	6.8	80	10000	140	--
AUG 12...	1320	278	6.5	28.5	25.5	8	10	5.1	62	70000	4500	--
SEP 04...	1245	390	6.6	26.5	25.0	10	9.0	6.0	71	25000	64	--

DATE	STREPTOCOCCI, KF AGAR (COLS./100 ML)	HARDNESS, (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM, DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 10...	29000	75	32	23	4.2	43	37	31	11	181	.25
NOV 19...	1900	--	--	--	--	--	--	32	--	182	.25
DEC 12...	24000	--	--	--	--	--	--	37	--	180	.24
JAN 15...	22000	59	29	18	3.5	30	27	26	9.5	146	.20
FEB 15...	8800	--	--	--	--	--	--	48	--	196	.27
MAR 18...	8000	--	--	--	--	--	--	30	--	134	.18
APR 18...	2200	--	--	--	--	30	22	21	--	127	.17
MAY 16...	80	--	--	--	--	--	--	35	--	167	.23
JUN 10...	28	--	--	--	--	--	--	32	--	172	.23
JUL 09...	84	68	18	21	3.7	50	29	33	10	180	.24
AUG 12...	140	--	--	--	--	--	--	26	--	141	.19
SEP 04...	K16	--	--	--	--	--	--	37	--	197	.27

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01192516 HOCKANUM RIVER AT EAST HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT										
10...	217	--	--	2.0	3.8	4.6	.30	4.1	6.1	27
NOV										
19...	200	1.9	.06	2.0	3.3	4.0	.30	3.6	5.6	25
DEC										
12...	219	1.9	.02	1.9	.48	.58	16	16	18	79
JAN										
15...	163	--	--	1.4	3.5	4.2	.90	4.4	5.8	26
FEB										
15...	69	2.2	.06	2.3	5.3	6.4	6.7	12	14	63
MAR										
18...	142	1.2	.02	1.2	1.7	2.1	1.0	2.7	3.9	17
APR										
18...	139	--	--	1.3	1.0	1.2	.40	1.4	2.7	12
MAY										
16...	197	2.1	.13	2.2	2.0	2.4	.60	2.6	4.8	21
JUN										
10...	213	2.2	.19	2.4	4.2	5.1	.20	4.4	6.8	30
JUL										
09...	190	--	--	2.2	.40	.48	4.6	5.0	7.2	32
AUG										
12...	190	1.7	.26	2.0	1.5	1.8	.20	1.7	3.7	16
SEP										
04...	224	1.5	.26	1.8	4.5	5.4	.30	4.8	6.6	29

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
10...	1.100	3.4	4	220	180	50	6.7	.10	.000	.000
NOV										
19...	.920	2.8	8	--	--	20	6.2	--	--	--
DEC										
12...	.390	1.2	4	--	--	40	7.2	--	--	--
JAN										
15...	.740	2.3	11	190	120	60	7.4	.10	5.69	.000
FEB										
15...	2.600	8.0	12	--	--	40	5.3	--	--	--
MAR										
18...	.730	2.2	9	--	--	20	7.4	--	--	--
APR										
18...	.460	1.4	--	--	--	--	21	--	5.70	.000
MAY										
16...	.940	2.9	7	--	--	40	6.1	--	--	--
JUN										
10...	1.100	3.4	9	--	--	30	6.4	--	--	--
JUL										
09...	.240	.74	5	90	190	30	8.9	.10	19.4	4.21
AUG										
12...	.960	2.9	10	--	--	20	6.9	--	--	--
SEP										
04...	1.100	3.4	5	--	--	20	--	--	--	--

CONNECTICUT RIVER BASIN

01192692 WILLOW BROOK AT NEW BRITAIN, CT

LOCATION.--Lat 41°39'09", long 72°47'06", Hartford County, Hydrologic Unit 01080205, 300 ft (91 m) south of Buell Street in Hungerford Park, on south edge of New Britain.

DRAINAGE AREA.--6.65 mi² (17.2 km²).

PERIOD OF RECORD.--September 1971 to July 1972, May 2, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 103.50 ft (31.547 m) National Geodetic Vertical Datum of 1929. Prior to July 1972, water-stage recorder at same site and at datum 1.5 ft (0.457 m) higher.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 255 ft³/s (7.33 m³/s) Sept. 17, 1980, gage height, 3.55 ft (1.082 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s (42.5 m³/s) by contracted-opening measurement 1,000 ft (305 m) upstream, Aug. 19, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 255 ft³/s (7.22 m³/s) Sept. 17, gage height, 3.55 ft (1.082 m).

DATE: JULY 29, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	0.93	043000	0.93	084500	0.93	130000	73	171500	29	213000	4.6
003000	0.93	044500	0.93	090000	0.93	131500	67	173000	22	214500	4.3
004500	0.93	050000	0.93	091500	0.93	133000	57	174500	17	220000	4.3
010000	0.93	051500	0.93	093000	1.5	134500	41	180000	14	221500	4.1
011500	0.93	053000	0.93	094500	5.2	140000	31	181500	11	223000	4.1
013000	0.93	054500	0.93	100000	9.5	141500	29	183000	10.0	224500	3.8
014500	0.93	060000	0.93	101500	22	143000	31	184500	9.1	230000	3.8
020000	0.93	061500	0.93	103000	28	144500	41	190000	8.2	231500	3.6
021500	0.93	063000	0.93	104500	45	150000	55	191500	7.4	233000	3.6
023000	0.93	064500	0.93	110000	62	151500	65	193000	6.7	234500	3.6
024500	0.93	070000	0.93	111500	78	153000	67	194500	6.4	240000	3.4
030000	0.93	071500	0.93	113000	135	154500	84	200000	6.1		
031500	0.93	073000	0.93	114500	135	160000	93	201500	5.8		
033000	0.93	074500	0.93	120000	106	161500	93	203000	5.5		
034500	0.93	080000	0.93	121500	118	163000	78	204500	5.2		
040000	0.93	081500	0.93	123000	106	164500	55	210000	4.9		
041500	0.93	083000	0.93	124500	87	170000	39	211500	4.9		

DATE: SEP. 17, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	0.08	043000	0.08	084500	0.08	130000	0.08	171500	0.08	213000	0.07
003000	0.08	044500	0.08	090000	0.08	131500	0.08	173000	0.08	214500	0.07
004500	0.08	050000	0.08	091500	0.08	133000	0.08	174500	0.08	220000	0.08
010000	0.08	051500	0.08	093000	0.08	134500	0.08	180000	0.08	221500	0.07
011500	0.08	053000	0.08	094500	0.08	140000	0.08	181500	0.08	223000	0.08
013000	0.08	054500	0.08	100000	0.08	141500	0.08	183000	0.08	224500	0.09
014500	0.08	060000	0.08	101500	0.08	143000	0.08	184500	0.08	230000	0.16
020000	0.08	061500	0.08	103000	0.08	144500	0.08	190000	0.08	231500	0.47
021500	0.08	063000	0.08	104500	0.08	150000	0.08	191500	0.08	233000	2.0
023000	0.08	064500	0.08	110000	0.08	151500	0.08	193000	0.08	234500	0.52
024500	0.08	070000	0.08	111500	0.08	153000	0.08	194500	0.08	240000	34
030000	0.08	071500	0.08	113000	0.08	154500	0.08	200000	0.08		
031500	0.08	073000	0.08	114500	0.08	160000	0.08	201500	0.07		
033000	0.08	074500	0.08	120000	0.08	161500	0.08	203000	0.07		
034500	0.08	080000	0.08	121500	0.08	163000	0.08	204500	0.08		
040000	0.08	081500	0.08	123000	0.08	164500	0.08	210000	0.08		
041500	0.08	083000	0.08	124500	0.08	170000	0.08	211500	0.07		

CONNECTICUT RIVER BASIN

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01192692 WILLOW BROOK AT NEW BRITAIN, CT--Continued

DATE: SEP. 18, 1980

TIME	DIS- CHARGE, IN	TIME	DIS- CHARGE, IN	TIME	DIS- CHARGE, IN	TIME	DIS- CHARGE, IN	TIME	DIS- CHARGE, IN	TIME	DIS- CHARGE, IN
HR MIN SEC	CUBIC FEET PER SECOND	HR MIN SEC	CUBIC FEET PER SECOND	HR MIN SEC	CUBIC FEET PER SECOND	HR MIN SEC	CUBIC FEET PER SECOND	HR MIN SEC	CUBIC FEET PER SECOND	HR MIN SEC	CUBIC FEET PER SECOND
001500	212	043000	30	084500	2.4	130000	0.63	171500	0.28	213000	0.17
003000	255	044500	24	090000	2.2	131500	0.63	173000	0.25	214500	0.17
004500	237	050000	19	091500	2.0	133000	0.63	174500	0.25	220000	0.17
010000	189	051500	14	093000	1.9	134500	0.57	180000	0.25	221500	0.17
011500	145	053000	12	094500	1.7	140000	0.57	181500	0.23	223000	0.16
013000	99	054500	10.0	100000	1.4	141500	0.52	183000	0.23	224500	0.16
014500	66	060000	8.5	101500	1.3	143000	0.47	184500	0.23	230000	0.16
020000	49	061500	7.4	103000	1.3	144500	0.47	190000	0.21	231500	0.16
021500	41	063000	6.4	104500	1.3	150000	0.42	191500	0.21	233000	0.16
023000	34	064500	6.0	110000	1.2	151500	0.42	193000	0.21	234500	0.16
024500	32	070000	5.2	111500	1.1	153000	0.38	194500	0.21	240000	0.16
030000	34	071500	4.8	113000	1.0	154500	0.34	200000	0.19		
031500	41	073000	4.2	114500	0.92	160000	0.34	201500	0.19		
033000	43	074500	3.8	120000	0.84	161500	0.31	203000	0.19		
034500	43	080000	3.5	121500	0.77	163000	0.31	204500	0.19		
040000	41	081500	3.2	123000	0.70	164500	0.28	210000	0.17		
041500	36	083000	2.9	124500	0.70	170000	0.28	211500	0.17		

CONNECTICUT RIVER BASIN

413901072464401 RAIN GAGE AT NEW BRITAIN HIGH SCHOOL AT NEW BRITAIN, CT

LOCATION.--Lat 41°39'01", long 72°46'44", Hartford County, Hydrologic Unit 01080205, on roof of New Britain High School at west end of building, in Willow Brook drainage basin, on Mill Street, 0.4 mi (0.6 km) southeast of gage on Willow Brook below Buell Street, at New Britain.

PERIOD OF RECORD.--July 21, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 7.75 in (197 mm) Aug. 19, 1955, at Shuttle Meadow Reservoir, 1.8 mi (2.9 km) upstream and 2.0 mi (3.2 km) southwest of New Britain High School.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.19 in (4.83 mm) July 23; maximum for 15 minutes, 0.41 in (10.4 mm) July 23; maximum for 30 minutes, 0.73 in (18.5 mm) July 23; maximum hourly, 0.98 in (24.9 mm) July 23; maximum daily, 1.96 in (49.8 mm) July 29.

DATE: JULY 29, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
091500	0.02	104500	0.05	121500	0.11	134500	0.01	151500	0.07		
093000	0.06	110000	0.06	123000	0.08	140000	0.02	153000	0.08		
094500	0.06	111500	0.10	124500	0.05	141500	0.06	154500	0.07		
100000	0.06	113000	0.16	130000	0.05	143000	0.07	160000	0.06		
101500	0.10	114500	0.08	131500	0.04	144500	0.06	161500	0.04		
103000	0.05	120000	0.10	133000	0.02	150000	0.06	163000	0.01		

CONNECTICUT RIVER BASIN

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01192890 COGINCHAUG RIVER AT ROCKFALL, CT

LOCATION.--Lat 41°32'10", long 72°41'16", Middlesex County, Hydrologic Unit 01080205, on left bank just downstream from bridge on State Highway 157, 0.5 mi (0.8 km) northeast of Rockfall, and 2.5 mi (4.0 km) southwest of Middletown.

DRAINAGE AREA.--34.7 mi² (89.9 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.16 ft (18.642 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for no gage-height record Jan. 31 to Mar. 4, which are fair. Some regulation of low flow by Beseck Lake and industrial plants upstream.

AVERAGE DISCHARGE.--19 years, 63.5 ft³/s (1.798 m³/s), 24.85 in/yr (631 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 25, 1979, gage height, 6.27 ft (1.911 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 2, 1964; minimum gage height, 0.49 ft (0.149 m) July 17, 1965; minimum daily discharge, 0.90 ft³/s (0.025 m³/s) July 8, 15, Aug. 5, 8, 1962, July 17, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11.3 m³/s) and maximum (*):

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. 19	0100	580 16.4	3.60 1.097	Mar. 22	1430	*1,310 37.1	*5.23 1.594
Apr. 10	1430	688 19.5	3.87 1.180				

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Sept. 18, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	24	46	48	14	9.0	189	143	20	17	68	3.8
2	45	23	41	40	13	9.0	163	106	20	16	41	3.8
3	99	63	37	32	12	8.5	140	81	23	16	37	3.5
4	91	85	36	28	10	8.5	166	68	23	14	31	3.5
5	88	93	35	26	10	8.5	222	58	21	13	24	2.9
6	78	82	36	25	9.5	8.0	191	51	18	25	19	2.6
7	56	63	52	25	9.0	8.0	152	50	40	15	13	2.4
8	41	48	55	24	9.0	9.0	124	78	45	12	10	2.2
9	34	40	52	27	8.5	11	127	93	40	9.0	8.2	2.0
10	40	40	44	25	8.5	12	647	82	32	7.8	7.4	2.0
11	58	47	39	32	8.5	45	505	65	27	7.0	7.4	2.0
12	87	103	37	129	8.5	117	317	66	23	6.6	8.6	1.8
13	98	113	45	120	8.0	99	224	66	19	5.4	6.6	2.0
14	90	109	60	101	8.0	38	177	62	17	4.7	5.7	1.8
15	80	91	62	77	8.0	32	185	52	14	4.1	6.6	1.8
16	68	74	56	63	8.0	35	150	42	13	3.8	5.7	2.0
17	58	59	55	52	8.0	46	118	37	11	3.5	5.4	2.0
18	51	51	43	46	8.0	426	98	34	10	3.5	5.0	1.8
19	46	46	38	40	8.0	509	84	35	9.5	3.5	5.0	3.2
20	44	42	33	38	8.0	327	75	34	8.6	3.2	9.0	2.9
21	42	40	30	36	9.0	358	71	50	8.2	3.8	7.8	3.2
22	41	39	69	34	11	1140	63	75	7.8	10	7.0	2.4
23	40	38	27	37	12	904	56	72	7.0	12	6.1	1.6
24	48	37	39	34	13	478	52	52	6.6	12	5.7	1.6
25	47	37	118	30	12	347	48	37	6.1	9.0	5.4	1.4
26	47	60	163	28	11	300	46	29	5.4	7.8	4.7	1.6
27	44	87	150	24	10	232	47	23	4.7	6.1	4.7	1.4
28	42	85	118	21	9.5	183	90	20	4.4	5.7	4.4	1.4
29	38	72	90	20	9.5	154	213	19	6.6	88	4.4	1.6
30	26	55	69	18	---	164	189	17	21	131	4.1	1.6
31	25	---	56	16	---	174	---	17	---	101	4.1	---
TOTAL	1722	1846	1831	1296	281.5	6199.5	4929	1714	511.9	576.5	382.0	67.8
MEAN	55.5	61.5	59.1	41.8	9.71	200	164	55.3	17.1	18.6	12.3	2.26
MAX	99	113	163	129	14	1140	647	143	45	131	68	3.8
MIN	25	23	27	16	8.0	8.0	46	17	4.4	3.2	4.1	1.4
CFSM	1.60	1.77	1.70	1.21	.28	5.76	4.73	1.59	.49	.54	.35	.07
IN.	1.85	1.98	1.96	1.39	.30	6.65	5.28	1.84	.55	.62	.41	.07
CAL YR 1979 TOTAL	37207.7											
WTR YR 1980 TOTAL	21357.2											
MEAN				102	MAX	1780	MIN	2.6	CFSM	2.94	IN	39.89
				58.4	MAX	1140	MIN	1.4	CFSM	1.68	IN	22.90

CONNECTICUT RIVER BASIN

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT

LOCATION.--Lat 41°34'00", long 72°38'53", Middlesex County, Hydrologic Unit 01080205, at Penn Central Co. railroad bridge, at Middletown, 0.5 mi (0.8 km) downstream from Mattabesset River and 0.6 mi (1.0 km) upstream from Sumner Brook.

DRAINAGE AREA.--10,869 mi² (28,151 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	1350	1.0	93	7.1	8.0	11.0	40	4.0	9.7	87	90000	--
NOV												
19...	1225	1.0	114	6.4	13.0	7.0	20	5.0	11.3	93	19000	--
DEC												
14...	1250	1.0	116	6.6	2.5	3.0	20	6.0	12.4	92	55000	--
JAN												
15...	1420	1.0	118	6.7	7.5	3.0	5	5.0	14.2	105	19000	4500
FEB												
15...	1300	1.0	160	6.6	4.0	.5	5	2.0	13.3	92	11000	1100
MAR												
18...	1425	1.0	160	6.3	8.0	5.0	10	5.0	12.3	96	3900	1000
APR												
18...	1315	1.0	78	7.1	16.0	7.5	10	6.0	12.2	102	6000	900
MAY												
16...	1330	1.0	118	7.0	22.0	15.5	3	5.0	9.7	96	4900	500
JUN												
10...	1315	1.0	135	7.1	18.5	17.5	5	4.0	7.8	81	4100	120
JUL												
09...	1310	1.0	134	8.3	29.5	24.0	9	2.0	11.0	129	2000	56
AUG												
12...	1225	1.0	171	7.2	29.0	27.5	8	3.0	7.5	96	18000	140
SEP												
04...	1150	1.0	178	7.3	27.0	26.5	5	2.0	8.6	105	23000	1000

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
11...	12000	1200	28	10	8.9	1.5	18	9.5	9.5	5.7	62	.08
NOV												
19...	2900	58	--	--	--	--	--	--	9.8	--	67	.09
DEC												
14...	14000	3100	--	--	--	--	--	--	9.8	--	67	.09
JAN												
15...	--	2000	35	0	11	1.9	36	13	11	6.6	74	.10
FEB												
15...	--	400	--	--	--	--	--	--	15	--	82	.11
MAR												
18...	--	400	--	--	--	--	--	--	17	--	93	.13
APR												
18...	--	200	73	47	22	4.4	26	8.6	6.1	5.1	54	.07
MAY												
16...	--	27	--	--	--	--	--	--	7.9	--	66	.09
JUN												
10...	--	24	--	--	--	--	--	--	11	--	77	.10
JUL												
09...	--	K9	39	13	12	2.1	26	13	14	2.1	88	.12
AUG												
12...	--	K12	--	--	--	--	--	--	12	--	83	.11
SEP												
04...	--	40	--	--	--	--	--	--	14	--	94	.13

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 11...	78	--	--	.32	.13	.16	.46	.59	.91	4.0
NOV 19...	76	.38	.02	.40	.17	.21	.15	.32	.72	3.2
DEC 14...	78	.43	.02	.45	.19	.23	.41	.60	1.1	4.6
JAN 15...	77	--	--	.51	.21	.25	.31	.52	1.0	4.6
FEB 15...	95	.98	.02	1.0	.73	.88	.20	.93	1.9	8.5
MAR 18...	100	.71	.03	.74	.45	.54	.42	.87	1.6	7.1
APR 18...	78	--	--	.37	.10	.12	.20	.30	.67	3.0
MAY 16...	70	.41	.01	.42	.08	.10	.20	.28	.70	3.1
JUN 10...	94	.52	.02	.54	.24	.29	.41	.65	1.2	5.3
JUL 09...	74	--	--	.40	.16	.19	.37	.53	.93	4.1
AUG 12...	90	.32	.03	.35	.26	.31	.14	.40	.75	3.3
SEP 04...	101	.53	.03	.56	.18	.22	.31	.49	1.1	4.6

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 11...	.090	.28	5	170	20	20	6.8	.00	.000	.000
NOV 19...	.100	.31	2	--	--	10	5.0	--	--	--
DEC 14...	.100	.31	2	--	--	10	4.5	--	--	--
JAN 15...	.080	.25	4	100	30	40	4.6	.00	.000	.000
FEB 15...	.380	1.2	45	--	--	40	2.4	--	--	--
MAR 18...	.190	.58	5	--	--	20	4.0	--	--	--
APR 18...	.070	.21	3	620	50	30	3.6	--	1.19	.000
MAY 16...	.060	.18	3	--	--	10	3.4	--	--	--
JUN 10...	.110	.34	4	--	--	0	5.6	--	--	--
JUL 09...	.150	.46	6	30	1	7	7.6	.00	28.5	2.08
AUG 12...	.120	.37	5	--	--	0	5.1	--	--	--
SEP 04...	.190	.58	5	--	--	0	4.3	--	--	--

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CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT

LOCATION.--Lat 41°33'40", long 72°36'45", Middlesex County, Hydrologic Unit 01080205, on right bank 0.5 mi (0.8 km) upstream from Bodkin Rock, 2 mi (3 km) downstream from Middletown, and 29.5 mi (47.5 km), revised, upstream from mouth.

DRAINAGE AREA.--10,882 mi² (28,184 km²).

PERIOD OF RECORD.--October 1965 to current year. Jan. 1, 1947, to Sept. 30, 1948, twice daily readings on outside staff gage, and Sept. 8, 1948, to Oct. 14, 1965, infrequent discharge measurements at high stages and continuous graphic record of stage.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below National Geodetic Vertical Datum. Auxiliary digital water-stage recorder at same datum on right bank 3.8 mi (6.1 km) downstream, 120 ft (37 m) downstream from pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL).

REMARKS.--Volume records good. Flow affected by ocean tides below a stage of 18.00 ft (5.486 m) and by storage in major reservoirs having a combined capacity of about 117 billion cubic feet (3.31 billion cubic metres). Some diversion from Chicopee River basin and regulation of flow by power plants. Volumes of flow in alternate directions are tabulated for each cycle of ebb and flood tide. Base data are simultaneous readings of gage heights obtained by two standard U.S. Geological Survey digital recorders located at the ends of a fairly uniform channel reach. Net volume cannot be accurately computed by taking the difference between successive values of upstream (-) and downstream (+) volumes, because channel storage is different at the beginning and end of each tidal change, and because net volume is a comparatively small difference between two large numbers, and the errors in the large numbers would be greatly magnified in the difference.

The following tables show the total volume of water moving downstream or upstream (-) in any tidal cycle in the order in which they occur. The time at which the downstream or upstream movement ends is shown to the right (0600) of the volume for that cycle. All times are given on the basis of 24 hours and are in eastern standard time. The last volume for any day in the table may represent only a portion of a tidal cycle and no time is shown because it is always the volume ending at 2400 hours. No time will be shown if all the flow is in the downstream direction.

Discharge in cfs at 15-minute intervals are available upon request.

Where no volume is shown, gage-height record is affected by ice.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177,000 ft³/s (5,010 m³/s) Aug. 20, 1955, gage height, 30.44 ft (9.278 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 267,000 ft³/s (7,560 m³/s) Mar. 21, 1936, gage height, 38.2 ft (11.64 m), from rating curve extended above 125,000 ft³/s (3,540 m³/s) on basis of stage and discharge determinations of 1927, 1936, and 1938 floods. Peak discharges for floods dating back to 1814 are available in the district office at Hartford, Conn.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88,200 ft³/s (2,500 m³/s) Apr. 12, gage height, 20.78 ft (6.333 m).

OCTOBER 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				
1	356 (0515)	-170 (0915)	468 (1645)	-253 (2145)	131
2	494 (0630)	-86 (0945)	672 (1845)	-103 (2200)	114
3	771 (0830)	-17 (1030)	1130		
4	2866				
5	3097				
6	2910				
7	2368				
8	1041 (1245)	-111 (1515)	722		
9	780 (1200)	-80 (1500)	822		
10	960 (1330)	-52 (1615)	732		
11	1877				
12	1156 (1530)	-13 (1730)	535		
13	1975				
14	1778				
15	1747				
16	1415 (1945)	-35 (2200)	104		
17	1726				
18	732 (0915)	-8 (1045)	793 (2200)	0 (2230)	26
19	695 (0915)	-37 (1145)	745 (2145)	-26 (2345)	0
20	674 (0915)	-97 (1230)	748 (2230)	-25	
21	-5 (0030)	631 (0945)	-93 (1300)	709 (2245)	-30
22	-31 (0130)	611 (1015)	-126 (1400)	710 (2315)	-9
23	-46 (0200)	594 (1030)	-174 (1445)	720 (2400)	-2
24	-65 (0300)	590 (1115)	-160 (1515)	720	
25	29 (0100)	-40 (0315)	608 (1215)	-103 (1545)	677
26	732 (1300)	-317 (1730)	543		
27	152 (0300)	-7 (0430)	601 (1400)	-588 (1945)	334
28	210 (0345)	-23 (0600)	604 (1445)	-189 (1915)	394
29	312 (0430)	-65 (0730)	630 (1630)	-84 (1945)	303
30	433 (0530)	-86 (0830)	581 (1715)	-157 (2115)	178
31	449 (0545)	-139 (0945)	600 (1815)	-134 (2200)	114

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

NOVEMBER 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
1	581 (0700)	-85 (1015)	692 (1930)	-109 (2245)
2	625 (0745)	-157 (1145)	612 (2000)	-145 (2400)
3	596 (0800)	-172 (1200)	826 (2215)	-23 (2400)
4	738 (0930)	-184 (1300)	906	
5	885 (1030)	-199 (1400)	923	
6	869 (1115)	-112 (1430)	930	
7	990 (1300)	-7 (1415)	1037	
8	2179			
9	1052 (1415)	-33 (1615)	656	
10	1678			
11	1249 (1715)	0 (1730)	422	
12	356 (0515)	-39 (0715)	1101	
13	413 (0545)	-35 (0800)	1097	
14	540 (0700)	-8 (0830)	1043	
15	1574			
16	1709			
17	627 (0830)	-27 (1045)	861	
18	574 (0830)	-110 (1215)	613 (2115)	-69
19	-3 (0030)	542 (0900)	-181 (1315)	632 (2200)
20	-15 (0100)	544 (0930)	-175 (1345)	683 (2245)
21	-28 (0130)	658 (1030)	-140 (1400)	783 (2400)
22	-30 (0200)	636 (1045)	-161 (1445)	775
23	10 (0030)	-44 (0300)	601 (1145)	-155 (1545)
24	26 (0100)	-76 (0400)	591 (1245)	-146 (1630)
25	65 (0130)	-96 (0500)	586 (1345)	-133 (1730)
26	146 (0245)	-102 (0630)	525 (1415)	-204 (1915)
27	2112			
28	2860			
29	3462			
30	3214			

DECEMBER 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
1	2368			
2	850 (0900)	-41 (1130)	1066	
3	833 (0930)	-70 (1230)	970	
4	881 (1045)	-36 (1245)	916	
5	770 (1030)	-114 (1400)	786 (2400)	0
6	-10 (0130)	1687		
7	25 (0115)	-21 (0315)	1551	
8	1756			
9	1554			
10	870 (1445)	-72 (1800)	378	
11	173 (0315)	-69 (0645)	574 (1615)	-26 (1845)
12	293 (0500)	-18 (0645)	694 (1815)	-2 (1915)
13	358 (0545)	-29 (0800)	629 (1745)	-100 (2115)
14	450 (0615)	-36 (0845)	694 (1915)	-19 (2115)
15	540 (0700)	-36 (0930)	907	
16	595 (0745)	-67 (1045)	651 (2015)	-93 (2330)
17	568 (0845)	-72 (1200)	480 (2100)	-61
18	-2 (0030)	455 (0830)	-122 (1215)	779
19	561 (0900)	-147 (1300)	782 (2300)	-13
20	-17 (0115)	575 (0945)	-155 (1345)	731 (2330)
21	-24 (0145)	642 (1045)	-152 (1430)	736
22	6 (0030)	-39 (0245)	640 (1145)	-125 (1530)
23	15 (0045)	-72 (0400)	554 (1215)	-214 (1645)
24	42 (0100)	-141 (0500)	581 (1330)	-135 (1715)
25	104 (0200)	-135 (0615)	691 (1515)	-39 (1730)
26	365 (0515)	-5 (0600)	1894	
27	2842			
28	2974			
29	2610			
30	2111			
31	742 (0830)	-80 (1130)	934	

JANUARY 1980 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
1	769 (0915)	-88 (1230)	846 (2330)	-4 (2400)
2	719 (0945)	-106 (1315)	811 (2345)	0
3	-1 (0045)	664 (1030)	-110 (1345)	759
4	2 (0030)	-9 (0145)	597 (1115)	-109 (1445)
5	3 (0015)	-62 (0300)	545 (1130)	-173 (1545)
6	0 (0015)	-154 (0400)	534 (1145)	-164 (1600)
7	41 (0115)	-82 (0415)	606 (1245)	-131 (1615)
8	126 (0230)	-28 (0430)	600 (1430)	-75 (1715)
9	149 (0300)	-67 (0600)	544 (1500)	-96 (1815)
10	224 (0430)	-14 (0615)	507 (1515)	-135 (1930)
11	1687			
12	529 (0715)	-41 (1015)	743 (2030)	-35 (2245)
13	572 (0730)	-117 (1130)	679 (2045)	-38 (2315)
14	558 (0800)	-182 (1230)	706 (2115)	-35 (2330)
15	647 (0900)	-145 (1245)	958	
16	861 (1100)	-59 (1330)	921	
17	813 (1130)	-79 (1430)	774	
18	10 (0045)	-7 (0200)	699 (1200)	-90 (1500)
19	34 (0115)	-36 (0315)	653 (1300)	-71 (1615)
20	86 (0215)	-19 (0415)	591 (1345)	-69 (1645)
21	102 (0215)	-71 (0515)	680 (1500)	-38 (1730)
22	212 (0330)	-39 (0600)	900	
23	215 (0415)	-68 (0745)	500 (1730)	-34 (2015)
24	301 (0530)	-27 (0800)	556 (1815)	-64 (2130)
25	316 (0545)	-138 (1015)	476 (1845)	-96 (2230)
26	378 (0645)	-192 (1130)	472 (1945)	-134 (2330)
27	409 (0730)	-197 (1215)	527 (2045)	-66 (2400)
28	575 (1015)	-29 (1315)	346 (2115)	-95
29	-29 (0130)	408 (0930)	-150 (1345)	522 (2215)
30				
31				

FEBRUARY 1980 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
1	-42 (0145)	519 (1015)	-165 (1430)	495 (2315)
2	-79 (0245)	441 (1045)	-148 (1515)	349 (2245)
3	-147 (0330)	445 (1130)	-196 (1615)	315 (2315)
4	-208 (0430)	313 (1130)	-235 (1645)	280 (2345)
5	-162 (0430)	427 (1230)	-161 (1700)	406
6	22 (0045)	-145 (0500)	490 (1315)	-121 (1715)
7	24 (0100)	-163 (0600)	371 (1345)	-170 (1815)
8	59 (0145)	-206 (0715)	369 (1400)	-228 (1830)
9	115 (0215)	-284 (0715)	538 (1515)	-187 (1930)
10	161 (0300)	-298 (0815)	478 (1600)	-219 (2045)
11	203 (0345)	-337 (0915)	481 (1700)	-245 (2130)
12	322 (0445)	-247 (1000)	554 (1815)	-207 (2230)
13	417 (0600)	-279 (1045)	575 (1900)	-192 (2315)
14	504 (0700)	-284 (1145)	569 (1945)	-240 (2400)
15	475 (0730)	-326 (1300)	469 (2000)	-276
16	-65 (0130)	459 (0800)	-458 (1400)	547 (2115)
17	-71 (0130)	520 (0915)	-351 (1430)	484 (2145)
18	-173 (0245)	504 (1000)	-333 (1530)	471 (2230)
19	-234 (0345)	501 (1100)	-309 (1615)	496 (2330)
20	-310 (0430)	564 (1215)	-201 (1700)	502
21	34 (0100)	-181 (0515)	629 (1400)	-118 (1745)
22	82 (0145)	-200 (0615)	552 (1430)	-234 (1945)
23	157 (0300)	-155 (0700)	615 (1600)	-123 (2015)
24	202 (0345)	-242 (0845)	519 (1715)	-111 (2115)
25	280 (0445)	-247 (1000)	476 (1800)	-175 (2230)
26	350 (0600)	-255 (1100)	494 (1915)	-140 (2330)
27	346 (0630)	-294 (1200)	494 (1945)	-193 (2400)
28	509 (0830)	-153 (1245)	390 (2000)	-208
29	-14 (0045)	451 (0845)	-179 (1300)	417 (2115)
30				
31				

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MARCH 1980 DISCHARGE AT STATION 1193000						APRIL 1980 DISCHARGE AT STATION 1193000					
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET					DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				
1	-9	(0115)	327	(0945)	-72	(1400)	315	(2200)	-33	1	3124
2	-56	(0230)	333	(1030)	-114	(1500)	288	(2215)	-33	2	2804
3	-117	(0330)	282	(1030)	-170	(1545)	303	(2245)	-22	3	2877
4	-132	(0345)	382	(1130)	-94	(1530)	378	(2345)	-1	4	2714
5	-100	(0345)	401	(1200)	-96	(1545)	401			5	2957
6	0	(0015)	-86	(0400)	873					6	3279
7	10	(0045)	-88	(0445)	385	(1345)	-60	(1715)	291	7	3074
8	24	(0115)	-124	(0545)	374	(1430)	-63	(1800)	256	8	2456
9	57	(0215)	-91	(0615)	746					9	2310
10	106	(0315)	-76	(0715)	404	(1615)	-53	(1945)	177	10	3838
11	141	(0330)	-113	(0730)	1163					11	6602
12	1888									12	7725
13	4884	(0800)	-9	(0930)	664					13	7458
14	415	(0645)	-149	(1100)	1045					14	6546
15	1314									15	5821
16	458	(0945)	-65	(1315)	337	(2115)	-74			16	5552
17	-58	(0200)	367	(0945)	-164	(1430)	348	(2200)	-63	17	5118
18	-108	(0245)	1465							18	4624
19	1961									19	3881
20	2422									20	3196
21	2256									21	2457
22	4546									22	2085
23	6941									23	1846
24	5318									24	1882
25	4095									25	1936
26	3776									26	1800
27	3402									27	1784
28	3006									28	1856
29	2430									29	2633
30	2589									30	3094
31	3070										

MAY 1980 DISCHARGE AT STATION 1193000						JUNE 1980 DISCHARGE AT STATION 1193000					
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET					DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				
1	3113					1	-127 (0315)	457 (1145)	-127 (1600)	332 (2315)	-10
2	2679					2	-182 (0415)	382 (1215)	-158 (1645)	343	
3	2224					3	1 (0015)	-164 (0445)	458 (1330)	-103 (1715)	416
4	1905					4	40 (0115)	-99 (0445)	614 (1400)	-121 (1745)	438
5	1667					5	124 (0230)	-82 (0545)	646 (1500)	-82 (1830)	415
6	1570					6	256 (0400)	-29 (0630)	655 (1615)	-66 (1915)	344
7	1321					7	349 (0500)	-33 (0715)	644 (1645)	-126 (2045)	211
8	1563					8	388 (0530)	-126 (0930)	488 (1715)	-235 (2200)	96
9	1986					9	465 (0645)	-107 (1030)	421 (1800)	-193 (2230)	68
10	2252					10	633 (0800)	-67 (1100)	537 (1915)	-141 (2315)	15
11	2098					11	707 (0900)	-66 (1200)	516 (2015)	-168	
12	1797					12	-7 (0030)	664 (0945)	-75 (1245)	534 (2115)	-103
13	1572					13	-27 (0100)	670 (1030)	-82 (1345)	524 (2200)	-81
14	1678					14	-89 (0215)	580 (1045)	-162 (1500)	415 (2215)	-69
15	1809					15	-185 (0330)	548 (1130)	-172 (1600)	406 (2315)	-26
16	1724					16	-225 (0400)	521 (1215)	-205 (1700)	391 (2400)	0
17	1489					17	-201 (0430)	554 (1300)	-145 (1700)	446	
18	47 (0200)	0 (0230)	1144			18	55 (0130)	-123 (0515)	552 (1400)	-152 (1800)	415
19	56 (0145)	-40 (0430)	552 (1500)	-23 (1715)	376	19	113 (0230)	-107 (0600)	505 (1430)	-158 (1845)	362
20	114 (0300)	-27 (0530)	532 (1545)	-10 (1730)	352	20	183 (0315)	-110 (0715)	466 (1500)	-198 (1945)	285
21	1186					21	244 (0415)	-108 (0745)	393 (1545)	-243 (2100)	176
22	1341					22	298 (0515)	-128 (0930)	360 (1630)	-229 (2145)	111
23	971 (1900)	-2 (2000)	171			23	360 (0545)	-165 (1030)	338 (1730)	-247 (2230)	63
24	1067 (1930)	-8 (2115)	116			24	441 (0645)	-150 (1100)	372 (1815)	-223 (2300)	28
25	1073 (1930)	-67 (2300)	36			25	512 (0730)	-161 (1145)	392 (1900)	-226 (2345)	1
26	502 (0830)	-1 (0845)	0 (0900)	-58 (1130)	338 (1915)	26	551 (0815)	-182 (1230)	418 (1945)	-237	
27	422 (0830)	-108 (1245)	320 (2000)	-162		27	-13 (0045)	561 (0845)	-201 (1315)	401 (2030)	-122
28	-10 (0030)	483 (0945)	-55 (1245)	366 (2045)	-113	28	-49 (0115)	579 (1045)	-237 (1500)	406 (2100)	-280
29	-21 (0100)	511 (1015)	-75 (1330)	398 (2145)	-64	29	-108 (0215)	551 (1000)	-253 (1500)	444 (2145)	-148
30	-43 (0130)	502 (1045)	-76 (1415)	399 (2215)	-44	30	-169 (0300)	579 (1045)	-248 (1530)	512 (2300)	-54
31	-82 (0215)	484 (1115)	-87 (1445)	392 (2245)	-28						

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JULY 1980 DISCHARGE AT STATION 1193000						AUGUST 1980 DISCHARGE AT STATION 1193000					
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET					DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				
1	-190 (0315)	737 (1215)	-163 (1545)	592 (2400)	0	1	19 (0045)	-217 (0500)	536 (1300)	-273 (1745)	446
2	-160 (0345)	618 (1245)	-163 (1645)	546		2	70 (0130)	-195 (0545)	487 (1345)	-281 (1845)	384
3	28 (0100)	-142 (0500)	567 (1315)	-191 (1745)	484	3	150 (0245)	-145 (0700)	482 (1445)	-254 (1930)	305
4	87 (0145)	-176 (0600)	506 (1400)	-256 (1900)	380	4	251 (0400)	-162 (0815)	419 (1545)	-261 (2045)	204
5	157 (0245)	-175 (0700)	481 (1445)	-298 (2000)	296	5	342 (0530)	-125 (0915)	421 (1700)	-229 (2130)	139
6	262 (0400)	-142 (0800)	512 (1600)	-313 (2115)	183	6	446 (0630)	-124 (1015)	420 (1745)	-225 (2230)	83
7	343 (0500)	-181 (0915)	407 (1630)	-308 (2200)	121	7	496 (0715)	-132 (1100)	433 (1845)	-207 (2315)	16
8	439 (0600)	-197 (1030)	412 (1730)	-318 (2300)	54	8	561 (0800)	-132 (1200)	460 (1945)	-184	
9	548 (0700)	-187 (1115)	432 (1830)	-314 (2345)	2	9	0 (0015)	565 (0845)	-163 (1300)	398 (2015)	-181
10	594 (0800)	-219 (1215)	454 (1930)	-286	10	-43 (0115)	444 (0900)	-215 (1400)	380 (2100)	-127	
11	-12 (0030)	612 (0845)	-236 (1315)	480 (2030)	-243	11	-82 (0200)	460 (0945)	-202 (1430)	423 (2200)	-82
12	-60 (0130)	608 (0930)	-234 (1400)	432 (2100)	-199	12	-109 (0230)	522 (1045)	-171 (1445)	483 (2300)	-28
13	-133 (0215)	560 (1015)	-267 (1500)	447 (2200)	-123	13	-124 (0300)	494 (1115)	-155 (1530)	521 (2400)	-1
14	-192 (0315)	505 (1045)	-291 (1545)	444 (2245)	-46	14	-110 (0330)	464 (1145)	-171 (1515)	446	
15	-225 (0345)	553 (1145)	-258 (1615)	466 (2345)	-5	15	1 (0015)	-130 (0415)	440 (1215)	-198 (1700)	429
16	-227 (0415)	545 (1215)	-264 (1700)	473	16	23 (0100)	-146 (0500)	396 (1300)	-196 (1745)	301	
17	24 (0045)	-223 (0500)	486 (1245)	-289 (1745)	444	17	36 (0115)	-182 (0615)	328 (1330)	-215 (1830)	315
18	59 (0130)	-196 (0600)	475 (1330)	-284 (1845)	370	18	91 (0215)	-141 (0700)	317 (1415)	-227 (1915)	283
19	121 (0230)	-161 (0645)	425 (1415)	-277 (1930)	303	19	161 (0330)	-126 (0730)	346 (1500)	-206 (2000)	227
20	179 (0330)	-167 (0745)	369 (1500)	-260 (2015)	235	20	307 (0545)	-55 (0930)	340 (1600)	-210 (2115)	143
21	232 (0415)	-183 (0845)	344 (1530)	-304 (2115)	173	21	277 (0515)	-160 (0945)	321 (1645)	-257 (2200)	95
22	329 (0515)	-174 (0945)	392 (1645)	-268 (2145)	139	22	391 (0600)	-175 (1030)	386 (1800)	-239 (2300)	26
23	454 (0630)	-157 (1015)	422 (1745)	-259 (2230)	82	23	438 (0700)	-196 (1145)	342 (1830)	-279 (2400)	2
24	505 (0700)	-195 (1115)	357 (1815)	-325 (2330)	9	24	465 (0745)	-213 (1245)	333 (1930)	-242	
25	565 (0745)	-221 (1215)	410 (1915)	-308	25	-16 (0045)	451 (0830)	-244 (1330)	354 (2015)	-208	
26	-2 (0015)	578 (0830)	-244 (1300)	424 (2000)	-281	26	-67 (0145)	443 (0915)	-244 (1415)	405 (2115)	-126
27	-41 (0115)	545 (0900)	-253 (1345)	428 (2045)	-225	27	-110 (0215)	467 (1000)	-217 (1445)	443 (2215)	-67
28	-110 (0200)	521 (0945)	-288 (1430)	445 (2130)	-150	28	-157 (0300)	475 (1100)	-225 (1545)	457 (2315)	-23
29	-174 (0245)	543 (1030)	-288 (1515)	579 (2300)	-40	29	-197 (0345)	455 (1115)	-250 (1630)	478	
30	-195 (0315)	649 (1145)	-223 (1545)	562 (2345)	-3	30	2 (0015)	-187 (0445)	421 (1215)	-268 (1730)	414
31	-221 (0400)	585 (1215)	-244 (1645)	525	31	33 (0100)	-172 (0545)	374 (1315)	-271 (1830)	328	

SEPTEMBER 1980 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				
1	101 (0230)	-141 (0645)	362 (1415)	-234 (1945)	245
2	175 (0330)	-151 (0815)	316 (1500)	-261 (2030)	211
3	283 (0500)	-101 (0845)	386 (1630)	-191 (2115)	148
4	357 (0600)	-100 (0945)	390 (1745)	-171 (2215)	89
5	471 (0715)	-102 (1100)	400 (1830)	-200 (2315)	21
6	507 (0745)	-121 (1145)	466 (1945)	-171 (2400)	0
7	472 (0815)	-203 (1300)	363 (2000)	-204	
8	-30 (0100)	417 (0845)	-221 (1345)	361 (2045)	-163
9	-67 (0145)	450 (0930)	-207 (1400)	423 (2145)	-101
10	-99 (0215)	468 (1030)	-182 (1500)	332 (2200)	-85
11	-141 (0300)	406 (1015)	-233 (1530)	409 (2300)	-23
12	-122 (0315)	417 (1100)	-241 (1600)	410 (2345)	-5
13	-150 (0400)	355 (1115)	-247 (1645)	405	
14	0 (0015)	-185 (0445)	341 (1200)	-248 (1730)	355
15	16 (0045)	-189 (0545)	349 (1300)	-240 (1815)	335
16	43 (0130)	-165 (0615)	380 (1330)	-247 (1845)	346
17	124 (0245)	-125 (0645)	419 (1430)	-206 (1915)	307
18	211 (0415)	-68 (0730)	431 (1545)	-180 (2015)	249
19	302 (0500)	-145 (0845)	452 (1645)	-164 (2100)	190
20	405 (0545)	-156 (1000)	417 (1730)	-238 (2215)	88
21	458 (0630)	-214 (1100)	434 (1815)	-286 (2330)	16
22	483 (0700)	-294 (1200)	439 (1900)	-308	
23	-4 (0015)	529 (0745)	-264 (1230)	538 (2015)	-227
24	-24 (0100)	567 (0845)	-294 (1330)	599 (2115)	-176
25	-65 (0130)	617 (0930)	-294 (1415)	650 (2200)	-129
26	-162 (0230)	607 (1015)	-317 (1500)	693 (2330)	-9
27	-150 (0300)	514 (1100)	-323 (1600)	569	
28	0 (0015)	-211 (0415)	531 (1200)	-309 (1645)	551
29	31 (0100)	-232 (0530)	403 (1215)	-387 (1600)	477
30	92 (0200)	-219 (0615)	444 (1330)	-332 (1645)	428

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, Hydrologic Unit 01080205, on pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi (1.3 km) south of Middle Haddam, 7.6 mi (12.2 km) upstream from Salmon River, and 6.1 mi (9.8 km) south of Middletown.

DRAINAGE AREA.--10,899 mi² (28,228 km²).

PERIOD OF RECORD.--Water year 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1970, October 1973 to June 1976, June 1978 to current year.

pH: October 1967 to September 1970, October 1973 to June 1976, June 1978 to current year.

WATER TEMPERATURES: October 1967 to September 1970, October 1973 to June 1976, June 1978 to current year.

DISSOLVED OXYGEN: October 1967 to September 1970, October 1973 to June 1976, June 1978 to current year.

INSTRUMENTATION.--Water-quality monitor October 1967 to current year.

REMARKS.--U.S.G.S. water-quality monitoring system installed June 1978. Missing record from August 8 through September, due to pump failure. In addition to water-quality monitor record, samples were collected approximately once a month, June 19, 1967 to September 1976. Quarterly samples started November 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 483 micromhos Aug. 18, 1975; minimum, 33 micromhos March 23, 1980.

pH: Maximum, 9.7 units July 3, 1975; minimum, 1.9 units Apr. 30, 1979.

WATER TEMPERATURES: Maximum, 33.0°C July 12, 1970; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 17, 1980; minimum 0.6 mg/L Aug. 11, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 172 micromhos July 24; minimum, 33 micromhos March 23.

pH: Maximum, 8.8 units July 13; minimum, 6.4 units March 27.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 8-9; minimum, 0.0°C at times during winter months.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 17; minimum, 5.6 mg/L July 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 10...	1020	5.0	93	7.5	3.0	13.0	30	6.0	8.7	83	1700	--
NOV 16...	1530	5.0	115	6.8	3.5	8.0	--	8.0	12.3	103	3100	--
DEC 11...	1020	5.0	105	6.5	10.5	4.0	--	3.0	13.4	102	8500	--
JAN 15...	1150	5.0	112	6.7	8.0	2.0	10	6.0	13.3	96	15000	1100
FEB 12...	1405	5.0	125	7.1	3.5	6.5	--	3.0	14.2	115	2000	280
MAR 21...	1235	5.0	105	6.9	8.0	4.5	--	12	13.1	101	6500	680
APR 15...	1040	5.0	67	6.9	16.5	8.0	10	7.0	11.9	100	5500	1200
MAY 13...	1020	5.0	99	6.9	18.0	14.0	--	8.0	8.2	80	--	400
JUN 10...	1020	5.0	137	7.1	14.0	18.5	--	3.0	7.0	75	2200	92
JUL 11...	1040	5.0	147	7.5	27.0	25.0	9	3.0	8.1	96	2000	20
AUG 12...	1040	5.0	156	7.4	26.0	28.5	--	1.0	7.9	100	3700	360
SEP 02...	1315	5.0	150	7.5	34.0	27.5	--	2.0	8.8	109	520	180

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, AS (MG/L CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINIT (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 10...	1200	92	28	11	8.9	1.5	17	9.7	9.3	5.6	61	.08
NOV 16...	2700	380	--	--	--	--	--	--	--	--	--	--
DEC 11...	1800	96	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	860	33	0	10	1.9	37	13	10	6.4	84	.11
FEB 12...	--	140	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	380	--	--	--	--	--	--	--	--	--	--
APR 15...	--	720	23	3	7.3	1.2	20	8.1	5.8	4.7	31	.04
MAY 13...	--	76	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	K4	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	K8	41	13	13	2.1	28	13	14	1.7	88	.12
AUG 12...	--	52	--	--	--	--	--	--	--	--	--	--
SEP 02...	--	K4	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 10...	83	.32	.09	.11	.27	.36	.68	3.0	.080
JAN 15...	82	.53	.20	.24	.24	.44	.97	4.3	.080
APR 15...	138	.38	.12	.15	.22	.34	.72	3.2	.100
JUL 11...	90	.38	.24	.29	.11	.35	.73	3.2	.170

DATE	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	.25	5	150	20	4	10	.00	2.93	.000
JAN 15...	.25	6	110	30	30	8.1	.00	.000	.000
APR 15...	.31	4	90	10	2	4.6	.00	1.15	.000
JUL 11...	.52	5	20	1	2	4.2	.00	36.1	7.90

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	132	125	129	127	123	125	107	100	103	99	96	98
2	133	125	130	133	125	129	109	104	106	99	93	97
3	125	106	116	128	124	126	110	105	107	104	94	97
4	107	89	97	134	128	132	107	104	105	101	91	95
5	94	83	86	134	118	127	110	103	107	101	92	97
6	89	83	87	---	---	---	108	102	106	98	92	96
7	89	84	86	---	---	---	110	102	105	100	94	97
8	93	88	91	---	---	---	111	100	103	103	95	101
9	92	89	91	---	---	---	111	103	105	107	98	103
10	96	90	93	---	---	---	103	89	92	110	101	107
11	96	92	94	---	---	---	108	98	101	116	103	109
12	100	94	97	---	---	---	109	102	106	118	106	112
13	105	94	100	---	---	---	112	106	108	114	103	108
14	102	98	100	---	---	---	---	---	---	104	94	99
15	100	96	98	---	---	---	---	---	---	103	91	97
16	103	97	99	---	---	---	---	---	---	102	91	99
17	100	95	98	---	---	---	---	---	---	103	96	99
18	143	97	103	---	---	---	---	---	---	107	99	103
19	107	103	105	---	---	---	---	---	---	107	101	104
20	109	107	107	---	---	---	---	---	---	108	100	104
21	110	107	109	---	---	---	114	109	112	110	100	104
22	116	109	113	---	---	---	114	105	109	114	103	107
23	116	115	115	---	---	---	109	103	107	110	102	105
24	118	114	116	---	---	---	114	106	111	118	105	109
25	122	116	119	---	---	---	126	115	120	119	102	111
26	120	115	118	---	---	---	125	109	120	127	113	118
27	119	114	116	---	---	---	109	98	102	121	114	118
28	117	112	114	---	---	---	99	92	96	129	116	121
29	116	112	114	106	96	101	100	92	95	133	119	123
30	119	117	118	105	97	103	101	96	98	139	117	127
31	124	120	123	---	---	---	102	96	99	144	119	133
MONTH	143	83	106	134	96	120	126	89	105	144	91	106

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	132	122	126	---	---	---	76	68	71	91	82	87
2	127	117	123	---	---	---	76	63	69	87	79	83
3	133	119	125	---	---	---	76	65	69	88	80	84
4	130	120	123	---	---	---	75	65	69	89	82	85
5	133	118	123	145	138	141	80	70	76	88	84	85
6	126	116	120	141	136	139	72	64	68	87	83	85
7	121	112	118	138	130	134	71	62	66	92	85	89
8	120	99	108	132	126	129	77	69	73	98	87	92
9	105	98	101	136	130	132	82	72	76	104	90	96
10	100	95	97	141	136	138	81	68	73	93	86	89
11	109	99	102	141	125	136	66	44	53	92	86	88
12	117	102	106	125	111	116	46	41	43	95	86	88
13	112	100	105	110	104	106	49	43	46	96	91	94
14	110	100	103	124	103	112	52	49	51	99	92	95
15	112	101	106	128	114	122	55	50	53	99	89	93
16	109	103	105	131	126	128	59	55	57	91	87	89
17	112	103	107	144	129	136	57	49	53	94	87	91
18	112	102	106	145	137	142	57	49	52	96	87	90
19	114	104	107	143	104	122	62	55	58	103	92	96
20	---	---	---	103	93	95	65	58	62	111	100	105
21	---	---	---	95	90	94	70	59	64	109	105	107
22	---	---	---	90	62	82	73	63	69	112	103	106
23	---	---	---	62	33	51	73	67	70	112	99	102
24	---	---	---	48	43	45	77	70	74	112	97	101
25	---	---	---	55	48	51	88	73	80	115	97	101
26	---	---	---	63	53	59	90	80	85	115	100	104
27	---	---	---	65	58	61	95	86	91	113	104	107
28	---	---	---	70	59	64	97	91	93	126	108	116
29	---	---	---	74	66	70	103	92	98	131	118	128
30	---	---	---	80	70	73	99	89	92	134	126	130
31	---	---	---	77	65	68	---	---	---	133	127	130
MONTH	133	95	111	145	33	102	103	41	68	134	79	98

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	132	128	130	153	146	149	151	146	148	163	158	161
2	134	128	131	147	137	141	151	147	149	159	150	154
3	140	131	135	143	125	133	147	144	145	152	150	151
4	151	138	145	132	126	129	148	146	147	154	150	152
5	143	129	135	130	126	128	153	149	151	153	147	149
6	130	117	125	129	122	125	155	153	154	149	142	145
7	121	114	117	132	127	129	155	149	151	144	138	139
8	128	124	126	130	122	125	152	146	149	139	136	138
9	132	129	130	141	127	135	155	150	152	138	136	137
10	138	131	135	145	138	142	155	150	153	139	136	137
11	137	127	132	145	143	143	153	150	152	141	138	139
12	131	127	129	146	143	144	153	150	152	142	140	141
13	131	124	128	146	142	144	156	152	155	144	141	142
14	127	122	125	145	142	144	155	150	153	146	143	144
15	125	122	124	146	85	142	153	144	148	148	145	147
16	129	123	127	152	145	147	147	143	144	148	146	148
17	138	128	132	152	149	151	145	142	144	149	147	147
18	147	137	143	153	149	151	144	141	143	153	149	151
19	143	135	141	155	154	155	145	142	143	154	147	151
20	138	132	135	155	152	154	151	143	147	145	139	141
21	132	130	131	157	154	155	154	151	152	140	137	137
22	133	131	132	159	156	157	159	153	157	138	134	136
23	138	133	136	165	155	158	160	157	159	138	135	137
24	141	138	139	172	163	169	160	158	160	142	138	139
25	150	140	145	171	159	162	160	157	158	141	134	138
26	153	149	151	162	157	160	160	157	158	137	127	132
27	154	152	153	163	159	161	164	158	161	132	128	130
28	155	150	153	163	159	161	164	161	163	131	128	130
29	155	151	153	161	145	153	165	163	164	132	128	130
30	155	151	153	155	145	152	166	164	165	133	131	132
31	---	---	---	156	146	151	166	162	165	---	---	---
MONTH	155	114	136	172	85	147	166	141	153	163	127	142

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.2	7.2	7.2	7.1	7.0	7.1	7.1	7.1	7.1	7.3	7.3	7.3
2	7.2	7.1	7.2	7.1	7.0	7.1	7.2	7.1	7.1	7.3	7.2	7.2
3	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.1	7.2	7.3	7.2	7.2
4	7.1	6.6	6.8	7.1	7.0	7.1	7.2	7.1	7.2	7.3	7.2	7.2
5	6.7	6.6	6.7	7.1	7.0	7.0	7.2	7.0	7.2	7.2	7.2	7.2
6	6.8	6.7	6.7	---	---	---	7.2	7.2	7.2	7.2	7.1	7.2
7	6.8	6.7	6.8	---	---	---	7.2	7.1	7.2	7.2	7.1	7.2
8	6.9	6.8	6.9	---	---	---	7.2	7.1	7.1	7.2	7.0	7.2
9	6.9	6.8	6.9	---	---	---	7.2	7.1	7.1	7.2	7.2	7.2
10	6.9	6.8	6.8	---	---	---	7.2	7.2	7.2	7.2	7.1	7.2
11	6.9	6.8	6.8	---	---	---	7.2	7.1	7.2	7.2	7.2	7.2
12	6.9	6.8	6.9	---	---	---	7.2	7.1	7.1	7.4	7.2	7.3
13	6.9	6.9	6.9	---	---	---	7.2	7.0	7.1	7.3	7.2	7.2
14	6.9	6.9	6.9	---	---	---	---	---	---	7.2	7.1	7.2
15	6.9	6.9	6.9	---	---	---	---	---	---	7.2	7.2	7.2
16	6.9	6.9	6.9	---	---	---	---	---	---	7.3	7.1	7.2
17	7.0	6.9	6.9	---	---	---	---	---	---	7.2	7.2	7.2
18	7.0	6.9	6.9	---	---	---	---	---	---	7.3	7.2	7.2
19	7.0	6.9	6.9	---	---	---	---	---	---	7.3	7.2	7.2
20	7.0	6.9	7.0	---	---	---	---	---	---	7.3	7.2	7.3
21	7.0	6.9	6.9	---	---	---	7.4	7.0	7.3	7.3	7.2	7.3
22	7.0	6.9	6.9	---	---	---	7.3	7.2	7.3	7.3	7.2	7.3
23	7.0	6.9	6.9	---	---	---	7.3	7.2	7.3	7.3	7.2	7.2
24	7.0	6.9	6.9	---	---	---	7.2	7.2	7.2	7.3	7.2	7.2
25	7.0	6.9	6.9	---	---	---	7.2	7.2	7.2	7.3	7.2	7.2
26	7.0	6.9	6.9	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2
27	7.0	7.0	7.0	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2
28	7.0	7.0	7.0	---	---	---	7.3	7.2	7.3	7.3	7.2	7.2
29	7.0	7.0	7.0	7.1	7.0	7.0	7.3	7.3	7.3	7.3	7.2	7.3
30	7.0	7.0	7.0	7.1	7.0	7.1	7.4	7.3	7.3	7.3	7.2	7.3
31	7.1	7.0	7.0	---	---	---	7.4	7.3	7.3	7.3	7.2	7.3
MONTH	7.2	6.6	6.9	7.1	7.0	7.1	7.4	7.0	7.2	7.4	7.0	7.2

PH (UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	7.3	7.2	7.3	7.4	7.4	7.4	7.0	6.9	7.0	7.2	7.1	7.1
2	7.3	7.2	7.3	7.4	7.3	7.4	7.1	7.0	7.0	7.1	7.1	7.1
3	7.3	7.2	7.3	7.4	7.3	7.3	7.4	7.0	7.1	7.1	7.0	7.1
4	7.3	7.2	7.2	7.4	7.2	7.3	7.1	7.0	7.0	7.1	7.0	7.0
5	7.3	7.2	7.2	7.3	7.2	7.3	7.1	7.0	7.0	7.0	6.9	7.0
6	7.3	7.2	7.2	7.4	7.3	7.3	7.0	7.0	7.0	7.0	6.9	6.9
7	7.3	7.2	7.2	7.3	7.2	7.3	7.1	7.0	7.0	6.9	6.9	6.9
8	7.3	7.2	7.2	7.3	7.2	7.2	7.1	7.0	7.0	7.0	6.9	6.9
9	7.3	7.2	7.2	7.3	7.1	7.2	7.0	6.9	7.0	6.9	6.9	6.9
10	7.3	7.2	7.2	7.2	7.1	7.2	7.0	6.8	6.9	7.1	6.9	7.0
11	7.2	7.2	7.2	7.2	7.1	7.1	6.8	6.7	6.8	7.1	7.0	7.1
12	7.3	7.2	7.2	7.2	7.0	7.1	6.7	6.7	6.7	7.3	7.0	7.0
13	7.2	7.2	7.2	7.1	7.0	7.0	6.7	6.7	6.7	7.0	7.0	7.0
14	7.2	7.2	7.2	7.1	6.9	7.0	6.8	6.7	6.7	7.1	6.9	7.0
15	7.3	7.2	7.3	7.0	7.0	7.0	6.9	6.6	6.8	7.2	6.9	7.0
16	7.3	7.2	7.3	7.0	7.0	7.0	7.0	6.9	6.9	7.1	6.9	7.0
17	7.3	7.2	7.3	7.0	7.0	7.0	7.0	6.9	6.9	7.0	6.9	7.0
18	7.3	7.2	7.2	7.1	7.0	7.0	7.0	6.9	7.0	7.0	6.9	6.9
19	7.3	7.2	7.3	7.1	6.8	6.9	7.0	6.9	7.0	7.0	6.9	6.9
20	7.3	7.2	7.3	6.9	6.8	6.9	7.0	7.0	7.0	7.0	6.9	6.9
21	7.2	7.2	7.2	7.0	6.9	6.9	7.0	6.9	7.0	7.0	6.8	6.9
22	7.2	7.2	7.2	7.0	6.7	6.9	7.0	6.9	6.9	6.9	6.9	6.9
23	7.2	7.2	7.2	6.8	6.6	6.7	7.0	6.9	7.0	7.1	6.9	7.0
24	7.3	7.2	7.2	6.6	6.6	6.6	7.0	6.9	7.0	7.1	7.0	7.0
25	7.3	7.2	7.2	6.7	6.6	6.6	7.0	6.9	6.9	7.3	7.0	7.1
26	7.3	7.2	7.2	6.8	6.7	6.7	7.0	6.9	6.9	8.1	7.1	7.4
27	7.3	7.2	7.3	6.8	6.4	6.7	7.0	6.9	7.0	8.5	7.1	7.7
28	7.3	7.2	7.3	6.8	6.7	6.8	7.0	6.9	7.0	8.5	7.4	7.9
29	7.5	7.3	7.4	6.9	6.8	6.8	7.1	7.0	7.1	8.5	7.3	7.8
30	---	---	---	6.9	6.8	6.9	7.1	7.0	7.1	8.6	7.4	8.0
31	---	---	---	6.9	6.9	6.9	---	---	---	8.2	7.5	7.7
MONTH	7.5	7.2	7.2	7.4	6.4	7.0	7.4	6.6	7.0	8.6	6.8	7.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	8.2	7.3	7.6	8.2	7.1	7.3	7.7	7.0	7.3	7.6	7.2	7.3
2	7.5	7.2	7.4	7.4	7.0	7.2	8.1	7.3	7.6	8.0	7.2	7.5
3	7.5	7.1	7.3	7.1	6.9	7.0	8.2	7.2	7.6	8.1	7.3	7.6
4	7.4	7.1	7.2	7.4	7.0	7.2	8.3	7.4	7.8	8.0	7.3	7.6
5	7.4	7.1	7.3	7.6	7.1	7.3	8.3	7.4	7.8	7.5	7.3	7.3
6	7.4	7.2	7.3	8.1	7.1	7.5	8.2	7.4	7.7	7.6	7.1	7.3
7	7.2	7.1	7.1	8.4	7.4	7.9	8.6	7.4	8.0	7.7	7.2	7.4
8	7.2	7.1	7.2	8.2	7.4	7.7	8.7	7.7	8.2	7.9	7.2	7.5
9	7.2	7.0	7.1	8.6	7.4	7.9	8.3	7.5	7.9	7.8	7.3	7.5
10	7.2	7.1	7.1	8.4	7.5	7.8	8.3	7.5	7.8	7.9	7.2	7.5
11	7.3	7.1	7.1	8.4	7.4	7.8	7.8	7.4	7.6	7.7	7.3	7.4
12	7.4	7.1	7.2	8.6	7.5	8.0	7.6	7.3	7.4	7.5	7.2	7.3
13	7.7	7.1	7.3	8.8	7.7	8.3	7.8	7.2	7.4	7.3	7.2	7.3
14	8.1	7.2	7.5	8.6	7.8	8.2	7.7	7.2	7.4	7.3	7.2	7.2
15	8.2	7.4	7.7	8.3	7.8	8.0	7.7	7.2	7.4	7.2	7.1	7.1
16	8.3	7.5	7.8	7.9	7.5	7.7	8.5	7.3	7.9	7.2	7.1	7.1
17	8.5	7.5	8.0	7.9	7.4	7.7	8.4	7.6	7.9	7.2	7.0	7.1
18	8.5	7.6	8.0	8.7	7.5	8.1	8.5	7.5	8.0	7.2	7.1	7.1
19	8.7	7.6	8.1	8.5	7.7	8.1	7.8	7.5	7.6	7.2	7.1	7.2
20	8.2	7.7	7.9	8.4	7.5	7.8	7.5	7.3	7.4	7.2	7.0	7.1
21	8.4	7.6	8.0	7.6	7.2	7.4	7.5	7.3	7.4	7.4	7.1	7.2
22	8.7	7.5	8.2	7.3	7.2	7.2	7.6	7.2	7.4	7.3	7.1	7.2
23	8.7	7.6	8.3	7.8	7.1	7.4	8.3	7.3	7.7	7.4	7.2	7.3
24	8.7	7.6	8.2	8.2	7.3	7.7	8.6	7.5	8.0	7.7	7.3	7.4
25	8.6	7.7	8.2	8.5	7.4	7.8	8.7	7.8	8.2	7.4	6.9	7.3
26	8.5	7.6	8.0	8.4	7.4	7.7	8.4	7.8	8.0	7.6	7.3	7.4
27	8.5	7.6	8.0	7.6	7.3	7.4	8.1	7.6	7.8	7.8	7.3	7.5
28	7.8	7.4	7.6	7.5	7.2	7.3	7.7	7.4	7.5	7.7	7.3	7.5
29	7.4	7.2	7.3	7.3	7.1	7.1	7.4	7.3	7.3	7.8	7.4	7.5
30	7.2	7.1	7.2	7.3	7.1	7.1	7.3	7.2	7.2	8.0	7.4	7.7
31	---	---	---	7.7	7.0	7.2	7.4	7.1	7.3	---	---	---
MONTH	8.7	7.0	7.6	8.8	6.9	7.6	8.7	7.0	7.7	8.1	6.9	7.4
YEAR	8.8	6.4	7.3									

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.5	18.5	19.0	11.0	10.0	10.0	8.0	7.5	7.5	2.0	1.5	2.0
2	19.5	18.5	19.0	11.5	10.0	10.5	7.0	6.0	6.5	2.0	1.5	2.0
3	19.0	18.5	18.5	12.0	11.0	11.5	6.0	5.0	5.5	2.0	1.5	1.5
4	18.5	18.0	18.0	12.5	11.0	11.5	6.0	4.5	5.0	2.0	1.0	1.5
5	18.0	17.5	18.0	11.5	10.5	11.0	6.0	4.5	4.5	2.0	.5	1.0
6	18.0	17.0	17.5	---	---	---	5.0	4.5	5.0	1.0	.0	.5
7	17.0	16.5	17.0	---	---	---	5.5	4.5	5.0	1.0	.5	.5
8	16.5	16.0	16.0	---	---	---	5.5	4.5	5.0	1.0	.5	.5
9	16.0	15.0	15.5	---	---	---	4.5	4.0	4.5	1.5	.5	1.0
10	15.0	13.0	14.0	---	---	---	4.0	3.5	3.5	1.5	.5	1.0
11	13.0	12.0	13.0	---	---	---	4.0	3.5	3.5	2.5	.5	1.5
12	12.5	11.5	12.0	---	---	---	5.0	3.5	4.0	2.5	1.5	2.0
13	11.5	11.0	11.5	---	---	---	5.5	4.5	5.0	3.0	.5	2.5
14	11.5	11.0	11.0	---	---	---	---	---	---	2.0	1.0	1.5
15	11.5	10.5	11.0	---	---	---	---	---	---	3.0	1.5	2.0
16	11.0	10.0	10.5	---	---	---	---	---	---	3.0	2.0	2.5
17	11.5	10.5	11.0	---	---	---	---	---	---	4.0	2.0	2.5
18	12.0	11.0	11.5	---	---	---	---	---	---	4.0	2.0	2.5
19	12.5	11.0	11.5	---	---	---	---	---	---	4.5	2.5	3.0
20	12.5	12.0	12.0	---	---	---	---	---	---	4.0	3.0	3.0
21	13.5	12.0	13.0	---	---	---	2.0	.5	.5	6.0	2.5	3.0
22	14.5	13.0	14.0	---	---	---	1.0	.5	.5	5.5	.0	2.5
23	15.5	14.0	15.0	---	---	---	1.0	.5	1.0	2.5	1.5	2.0
24	16.5	15.0	15.5	---	---	---	2.0	1.0	1.0	4.0	1.0	2.0
25	15.5	15.0	15.5	---	---	---	3.0	2.0	2.5	3.0	.5	1.5
26	15.0	13.5	14.5	---	---	---	4.0	3.0	3.5	3.0	.5	1.0
27	13.5	12.0	13.0	---	---	---	3.5	3.5	3.5	2.0	.5	1.0
28	12.0	11.0	11.5	---	---	---	3.0	3.0	3.0	5.0	.5	1.5
29	11.5	10.5	11.0	10.5	9.5	10.5	3.0	2.5	2.5	4.5	.5	1.0
30	10.5	10.0	10.5	9.0	8.0	8.5	2.5	2.0	2.5	2.0	.5	1.0
31	11.0	10.0	10.5	---	---	---	2.5	2.0	2.0	2.0	.5	1.0
MONTH	19.5	10.0	14.0	12.5	8.0	10.5	8.0	.5	3.5	6.0	.0	1.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.0	.5	.5	4.5	.0	1.0	5.0	4.5	5.0	11.0	10.5	10.5
2	2.0	.0	.5	2.5	.5	1.0	5.5	5.0	5.0	12.0	10.5	11.0
3	3.0	.5	1.0	2.0	.5	1.0	6.0	4.5	5.0	13.5	11.0	12.5
4	3.5	.0	1.0	3.0	1.0	1.5	6.5	5.5	6.0	14.5	12.5	13.5
5	4.0	.5	1.0	3.5	1.0	1.5	6.0	6.0	6.0	15.0	13.5	14.5
6	1.5	.5	.5	4.0	1.0	2.0	7.0	6.0	6.5	16.0	14.0	15.0
7	1.5	.5	.5	5.5	1.5	2.5	7.5	6.0	7.0	16.5	14.5	15.5
8	3.5	.5	1.0	5.5	2.0	3.0	8.5	7.0	7.5	15.5	15.0	15.5
9	1.5	.5	1.0	5.5	3.0	4.0	9.0	7.5	8.0	15.5	14.0	15.0
10	2.0	.5	1.0	6.0	3.5	5.0	9.0	8.0	8.5	15.0	14.0	14.5
11	3.5	.5	1.5	5.5	4.0	4.5	8.0	7.5	7.5	14.5	14.0	14.5
12	3.5	.5	1.5	5.0	3.5	4.0	7.5	7.5	7.5	15.5	13.5	14.5
13	4.5	.5	1.0	4.5	2.0	2.5	8.0	7.5	7.5	15.5	14.0	15.0
14	4.5	.5	1.5	3.0	1.5	2.0	8.0	7.5	7.5	16.5	15.0	16.0
15	3.0	.5	1.5	3.0	1.5	2.0	8.5	7.5	8.0	16.5	15.0	16.0
16	2.5	1.0	1.5	3.5	1.5	2.5	8.0	7.5	8.0	16.5	15.0	16.0
17	1.5	.5	1.0	6.0	2.0	3.5	8.0	7.0	7.5	17.5	15.0	16.5
18	3.0	.5	1.0	5.0	4.0	4.5	8.0	7.5	8.0	16.5	15.5	16.0
19	4.0	1.0	1.5	5.5	4.0	5.0	8.5	7.5	8.0	17.5	16.5	17.0
20	4.5	1.0	2.0	4.5	4.0	4.0	9.5	8.0	9.0	18.0	16.5	17.5
21	4.5	1.5	2.0	5.0	4.0	4.5	11.0	9.0	10.0	18.0	17.5	18.0
22	3.0	1.5	2.0	4.5	3.0	4.0	11.5	9.5	10.5	18.0	17.0	17.5
23	4.5	2.0	2.5	3.0	2.5	3.0	11.5	9.5	11.0	20.0	17.5	18.5
24	4.0	2.5	3.0	4.0	3.0	3.5	12.5	10.0	11.0	20.5	18.5	19.5
25	5.0	2.5	3.0	4.0	3.5	4.0	12.5	11.0	12.0	20.5	19.5	20.0
26	4.0	2.5	3.0	4.0	4.0	4.0	12.0	11.0	11.5	20.0	19.5	19.5
27	4.5	2.5	3.0	4.0	4.0	4.0	12.0	11.5	12.0	21.0	19.0	19.5
28	6.0	2.0	2.5	4.5	4.0	4.5	12.0	11.0	11.5	21.0	19.5	20.0
29	5.0	.5	2.0	5.5	4.5	5.0	11.5	10.0	10.5	21.5	19.5	20.5
30	---	---	---	5.5	5.0	5.0	11.0	10.0	10.5	22.0	20.0	20.5
31	---	---	---	5.0	4.5	5.0	---	---	---	22.0	20.5	21.0
MONTH	6.0	.0	1.5	6.0	.0	3.5	12.5	4.5	8.5	22.0	10.5	16.5

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.5	21.0	21.5	25.0	23.0	24.0	28.0	26.0	27.0	27.5	26.5	27.0
2	23.0	21.5	22.0	24.0	22.5	23.5	28.5	27.5	28.0	28.0	26.5	27.5
3	23.0	22.0	22.0	24.5	23.0	24.0	28.5	28.0	28.5	28.0	26.5	27.0
4	23.5	22.0	22.5	24.5	23.0	23.5	28.5	28.0	28.5	27.0	26.0	26.5
5	23.0	22.0	22.5	24.5	23.5	24.0	29.0	28.0	28.5	27.0	26.0	26.5
6	22.5	21.5	22.0	24.5	24.0	24.5	29.0	28.0	28.5	26.5	25.5	26.0
7	22.0	20.5	21.0	25.5	24.0	24.5	29.5	28.5	29.0	26.5	25.5	26.0
8	21.5	20.0	21.0	25.0	24.5	24.5	30.0	28.5	29.0	25.5	25.0	25.5
9	20.0	19.0	19.5	25.0	24.0	24.5	30.0	28.5	29.5	25.5	24.0	25.0
10	20.0	18.0	19.0	25.5	24.0	25.0	29.5	28.5	29.0	25.0	24.0	24.5
11	19.5	18.0	18.5	26.0	24.5	25.0	29.0	28.5	28.5	24.5	24.0	24.0
12	19.5	18.0	18.5	26.5	25.0	26.0	29.0	28.0	28.5	24.5	23.5	24.0
13	21.0	18.5	19.5	26.5	25.5	26.0	28.5	27.0	27.5	24.0	23.0	23.5
14	21.5	19.0	20.5	27.0	26.0	26.5	27.0	26.5	27.0	24.0	23.5	23.5
15	21.5	20.5	21.0	27.5	26.5	26.5	27.5	24.5	27.0	24.0	23.5	23.5
16	22.5	21.0	22.0	27.5	26.5	27.0	26.5	25.5	26.0	23.5	22.5	23.0
17	23.5	22.0	22.5	28.0	27.0	27.5	25.5	25.0	25.0	22.5	22.0	22.5
18	23.5	22.0	23.0	28.0	27.5	28.0	25.5	25.0	25.0	22.5	22.0	22.0
19	24.0	22.5	23.0	28.0	27.5	28.0	25.5	25.0	25.5	21.5	21.0	21.0
20	23.0	22.0	22.5	29.0	28.0	28.5	25.5	24.5	25.0	21.5	21.0	21.5
21	22.0	21.5	22.0	29.5	28.5	29.0	24.5	24.0	24.0	22.0	21.0	21.5
22	23.5	21.5	22.5	29.5	29.0	29.5	24.0	23.5	24.0	22.5	21.5	22.0
23	23.5	22.0	23.0	29.5	28.5	29.0	24.0	22.5	23.5	23.0	22.0	22.5
24	24.0	22.5	23.5	29.0	23.0	28.5	24.5	23.0	23.5	22.5	22.0	22.0
25	25.0	23.5	24.5	29.0	28.0	28.5	25.0	23.5	24.5	22.0	21.5	22.0
26	26.5	24.5	25.5	29.0	27.5	28.5	26.0	24.5	25.0	21.5	20.0	21.0
27	27.0	25.5	26.0	28.5	23.0	28.0	26.5	25.0	26.0	20.0	19.0	19.5
28	26.5	26.0	26.0	29.0	28.0	28.5	27.5	26.0	26.5	19.5	18.5	19.0
29	26.0	24.5	25.0	28.5	27.0	28.0	27.0	26.5	26.5	19.0	18.0	18.5
30	25.0	24.5	24.5	28.0	26.5	27.0	26.5	26.0	26.5	19.5	18.0	18.5
31	---	---	---	27.5	26.5	27.0	27.0	26.0	26.5	---	---	---
MONTH	27.0	18.0	22.0	29.5	22.5	26.5	30.0	22.5	26.5	28.0	18.0	23.0
YEAR	30.0	.0	13.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.1	7.5	---	---	---	10.3	9.2	9.8	14.4	13.7	14.0
2	7.4	7.1	7.3	---	---	---	10.0	9.6	9.8	14.1	13.5	13.8
3	7.5	7.2	7.3	10.0	9.5	9.7	12.6	8.6	9.8	14.0	13.4	13.8
4	7.4	6.8	7.2	9.6	8.8	9.2	10.7	8.2	8.5	13.7	12.3	13.5
5	7.8	7.1	7.5	9.5	8.7	9.0	9.0	8.0	8.3	13.3	12.8	13.1
6	8.1	7.8	7.9	---	---	---	8.8	8.4	8.6	13.3	12.6	13.0
7	8.2	7.8	8.0	---	---	---	---	---	---	13.2	12.8	12.9
8	8.6	8.1	8.4	---	---	---	---	---	---	13.3	12.2	13.0
9	8.5	8.2	8.4	---	---	---	---	---	---	13.2	13.0	13.1
10	8.5	8.3	8.4	---	---	---	---	---	---	14.4	5.6	12.7
11	8.9	8.5	8.6	---	---	---	---	---	---	13.5	12.8	13.1
12	9.3	8.9	9.0	---	---	---	---	---	---	13.7	12.6	13.4
13	9.5	9.3	9.4	---	---	---	---	---	---	13.4	13.1	13.3
14	9.7	9.5	9.6	---	---	---	---	---	---	13.4	12.1	13.1
15	9.9	9.7	9.8	---	---	---	---	---	---	13.7	13.5	13.6
16	10.1	9.9	10.0	---	---	---	---	---	---	13.9	12.6	13.6
17	10.1	9.9	10.0	---	---	---	---	---	---	13.9	13.4	13.6
18	10.0	9.8	9.9	---	---	---	---	---	---	13.9	13.5	13.7
19	10.0	9.6	9.8	---	---	---	---	---	---	14.2	13.7	13.9
20	9.8	9.6	9.7	---	---	---	---	---	---	14.1	13.5	13.8
21	9.7	9.2	9.5	---	---	---	14.6	13.9	14.3	14.0	13.6	13.7
22	9.3	8.8	9.1	---	---	---	14.8	14.4	14.6	13.9	12.7	13.5
23	8.9	8.6	8.8	---	---	---	15.2	14.7	15.0	13.7	13.1	13.4
24	---	---	---	---	---	---	15.4	14.9	15.0	13.6	13.1	13.3
25	---	---	---	---	---	---	15.9	15.5	15.7	13.6	13.1	13.3
26	---	---	---	---	---	---	15.9	15.3	15.7	13.7	13.0	13.3
27	---	---	---	---	---	---	15.6	14.9	15.4	13.6	13.0	13.4
28	---	---	---	---	---	---	15.0	14.7	14.8	14.1	13.1	13.3
29	---	---	---	10.0	9.7	9.9	14.9	14.6	14.7	14.0	13.1	13.4
30	---	---	---	9.9	9.3	9.6	14.8	14.5	14.7	13.4	13.0	13.2
31	---	---	---	---	---	---	14.6	14.2	14.3	13.3	13.1	13.2
MONTH	10.1	6.8	8.7	10.0	8.7	9.5	15.9	8.0	12.9	14.4	5.6	13.4

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.6	13.2	13.4	13.7	12.4	12.8	---	---	---	11.0	10.4	10.7
2	13.6	13.3	13.5	13.2	12.3	12.7	---	---	---	10.9	10.2	10.7
3	13.8	13.2	13.5	13.1	12.5	12.7	14.2	13.7	14.0	10.6	10.3	10.4
4	13.8	12.9	13.3	13.4	11.8	12.8	14.2	13.1	13.7	10.5	9.9	10.1
5	13.5	12.8	13.2	13.5	12.8	13.0	13.5	12.9	13.2	10.2	9.4	9.7
6	13.3	13.0	13.1	17.2	12.9	13.6	13.7	13.1	13.4	9.6	8.7	9.1
7	13.3	12.9	13.1	13.7	13.1	13.3	13.8	13.2	13.5	8.9	8.4	8.6
8	13.7	12.6	13.2	---	---	---	13.6	12.9	13.2	8.8	8.0	8.4
9	13.5	12.9	13.2	---	---	---	13.2	12.5	12.7	8.6	8.0	8.3
10	13.6	12.9	13.2	---	---	---	12.8	11.5	12.1	9.1	8.4	8.8
11	15.4	13.0	14.0	---	---	---	12.5	11.7	12.1	9.3	8.8	9.1
12	13.9	13.1	13.4	---	---	---	13.1	12.3	12.8	10.5	8.9	9.8
13	16.3	13.1	14.2	---	---	---	13.1	12.4	12.7	10.2	9.8	10.0
14	17.4	13.1	13.9	---	---	---	12.6	12.0	12.2	9.9	9.3	9.5
15	---	---	---	---	---	---	12.3	11.9	12.1	9.5	8.9	9.2
16	18.7	12.6	13.3	---	---	---	12.4	11.7	12.0	9.3	8.6	9.1
17	19.2	12.3	13.3	---	---	---	12.3	11.8	12.0	9.4	8.8	9.1
18	16.2	12.2	12.6	---	---	---	12.6	12.0	12.4	9.0	8.6	8.8
19	13.0	12.5	12.6	---	---	---	12.6	11.8	12.3	8.9	8.1	8.5
20	13.2	12.4	12.6	---	---	---	12.5	11.8	12.2	8.7	8.0	8.3
21	13.4	12.6	13.0	---	---	---	12.3	11.1	11.8	8.5	7.5	8.1
22	13.2	12.7	12.9	---	---	---	11.5	10.9	11.2	8.5	7.8	8.2
23	16.8	12.7	13.1	---	---	---	11.2	10.7	10.9	9.1	8.0	8.6
24	13.7	12.7	13.2	---	---	---	10.9	10.0	10.5	9.0	8.3	8.7
25	13.3	12.7	13.0	---	---	---	10.7	10.0	10.3	8.9	8.1	8.6
26	13.3	12.6	13.0	---	---	---	10.7	10.1	10.4	9.9	8.2	8.9
27	19.0	12.8	14.0	---	---	---	10.4	9.9	10.2	10.4	8.1	9.4
28	13.7	12.8	13.1	---	---	---	10.4	10.1	10.2	10.5	8.7	9.7
29	13.5	12.5	12.8	---	---	---	10.5	10.2	10.3	10.9	8.5	9.6
30	---	---	---	---	---	---	10.5	10.1	10.3	10.4	8.5	9.5
31	---	---	---	---	---	---	---	---	---	9.5	8.3	8.9
MONTH	19.2	12.2	13.2	17.2	11.8	13.0	14.2	9.9	12.0	11.0	7.5	9.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.3	7.8	8.5	9.5	6.3	7.3	9.8	6.9	8.3	9.3	7.4	8.3
2	8.3	7.0	7.7	8.2	6.2	7.2	10.3	8.1	9.1	9.8	7.7	8.6
3	9.0	6.4	7.6	7.3	6.1	6.7	10.5	7.9	9.2	10.4	8.0	9.1
4	8.1	7.3	7.6	8.2	6.2	7.2	10.6	8.6	9.6	10.4	8.8	9.6
5	8.0	7.2	7.6	8.9	7.2	8.1	10.4	8.4	9.4	9.2	7.8	8.4
6	8.0	7.2	7.6	9.4	7.7	8.5	10.4	8.6	9.3	9.0	7.5	8.1
7	7.7	7.0	7.3	9.6	7.6	8.7	11.1	8.4	9.6	9.3	7.6	8.3
8	7.3	6.8	7.1	9.1	7.7	8.4	11.1	8.9	9.9	9.5	7.6	8.5
9	7.2	6.1	6.7	10.0	7.5	8.6	10.3	8.3	9.2	9.6	8.2	8.8
10	7.3	6.4	6.8	9.5	7.8	8.6	10.2	8.3	9.1	9.8	8.2	8.9
11	7.9	6.8	7.3	9.3	7.5	8.3	9.2	8.1	8.5	9.4	8.1	8.7
12	8.2	6.9	7.6	9.5	7.9	8.6	8.9	7.7	8.1	8.8	7.9	8.3
13	9.0	7.1	8.0	9.7	7.6	8.9	9.3	7.2	8.0	8.4	7.8	8.1
14	10.0	7.6	8.8	10.3	7.9	9.3	9.3	7.2	8.2	8.4	7.6	7.9
15	10.1	8.4	9.2	9.6	8.7	9.1	10.7	7.8	9.0	8.0	7.2	7.6
16	10.7	8.4	9.7	9.0	7.8	8.4	12.0	9.3	10.8	7.8	6.9	7.4
17	11.1	9.4	10.2	9.0	7.6	8.4	12.1	10.3	11.1	7.9	6.3	7.3
18	10.2	8.8	9.6	10.5	7.7	8.9	12.5	10.3	11.3	8.4	7.0	7.7
19	10.4	8.5	9.3	9.5	7.7	8.4	11.1	10.0	10.6	8.9	7.6	8.2
20	9.2	8.3	8.8	9.5	7.4	8.1	10.4	9.4	9.9	8.6	7.1	7.8
21	9.3	8.0	8.6	7.9	6.3	7.1	10.3	9.3	9.8	9.4	8.0	8.6
22	10.4	8.2	9.4	7.3	6.2	6.6	10.5	9.2	9.8	9.3	8.0	8.6
23	10.4	8.6	9.6	8.5	6.2	7.4	12.4	9.6	10.7	9.5	8.3	8.9
24	10.7	8.8	9.8	8.5	7.0	7.6	13.5	10.7	12.0	10.1	8.6	9.1
25	10.6	9.1	9.8	9.1	7.1	8.0	13.8	11.6	12.4	9.0	8.0	8.6
26	9.8	8.4	9.1	9.4	7.3	8.0	12.6	11.2	11.8	9.8	8.4	9.0
27	9.5	7.9	8.7	7.7	6.6	7.1	11.6	10.6	11.1	10.7	8.9	9.7
28	8.3	7.2	7.9	7.7	6.6	7.1	10.7	9.9	10.3	10.7	9.1	9.9
29	7.3	6.5	6.9	7.0	5.9	6.2	9.8	8.7	9.2	10.9	9.6	10.2
30	6.8	6.3	6.6	7.0	5.8	6.3	8.8	7.9	8.3	11.5	9.9	10.7
31	---	---	---	9.3	5.6	7.0	8.9	7.3	8.0	---	---	---
MONTH	11.1	6.1	8.3	10.5	5.6	7.9	13.8	6.9	9.7	11.5	6.3	8.6

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT

LOCATION.--Lat 41°32'53", long 72°26'59", Middlesex County, Hydrologic Unit 01080205, on left bank at Route 16 Bridge, 450 ft (140 m) downstream from New London-Middlesex County line, 300 ft (91 m) downstream from Comstock Bridge, 0.7 mi (1.1 km) downstream from Dickinson Creek, and 3.5 mi (5.6 km) southeast of East Hampton.

DRAINAGE AREA.--102 mi² (264 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- July 1928 to current year.

REVISED RECORDS.--WSP 1201: 1929. WDR CT-78-1: 1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 63.71 ft (19.419 m) National Geodetic Vertical Datum of 1929. Prior to June 23, 1974, at datum 2.99 ft (0.911 m) higher; prior to May 20, 1980, at datum 2.80 ft (0.853 m) higher and at site 400 ft (120 m) upstream.

REMARKS.--Records good except those for periods of no gage-height record Mar. 23 to Apr. 22, which are fair. Slight regulation at low flow by ponds upstream.

AVERAGE DISCHARGE.--52 years, 183 ft³/s (5.182 m³/s), 24.36 in/yr (619 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) Jan. 25, 1979, gage height, 12.67 ft (3.862 m); minimum, 1.0 ft³/s (0.028 m³/s) Oct. 31, 1935, gage height, -0.17 ft (-0.052 m); minimum daily, about 1 ft³/s (0.028 m³/s) Oct. 13, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

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. 11	1145	1,440	40.8	5.92	1.804	Mar. 22	0145	* 4,960	140	* 8.68	2.646
18	0830	2,320	65.7	6.81	2.076	Apr. 10	unknown	about 3,000	about 85.0	unknown	unknown

Minimum discharge, 4.4 ft³/s (0.12 m³/s) Sept. 17, gage height, 2.86 ft (0.872 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	56	161	141	68	63	500	390	86	109	72	11
2	150	54	147	128	66	59	450	325	88	74	51	11
3	120	550	128	118	65	55	400	291	96	74	98	10
4	164	430	128	113	64	55	750	260	88	57	77	11
5	136	330	130	110	64	59	700	227	72	43	53	9.8
6	164	260	123	110	63	73	500	215	62	100	43	11
7	153	210	234	110	62	74	400	200	277	65	37	8.3
8	106	160	211	110	63	118	370	469	286	45	28	7.4
9	86	140	159	110	66	187	390	439	182	40	23	7.0
10	144	230	144	106	63	120	2000	305	141	34	20	7.0
11	215	350	141	187	60	905	1000	240	115	32	20	5.4
12	234	550	128	500	63	405	750	252	96	29	23	5.7
13	272	400	164	320	63	219	600	273	81	25	21	5.7
14	211	300	230	250	62	222	520	256	75	24	19	7.0
15	150	250	161	215	64	234	700	211	64	21	19	5.4
16	123	210	150	183	66	180	550	182	53	20	18	5.4
17	109	180	180	161	68	230	450	167	51	19	16	6.3
18	100	150	174	150	70	1630	400	162	48	18	17	29
19	96	135	141	135	75	767	330	176	44	18	18	27
20	86	123	130	120	80	527	300	164	42	18	20	17
21	88	125	130	110	85	1030	270	269	42	17	20	12
22	92	123	125	100	100	3200	258	354	39	23	19	11
23	92	123	125	95	110	900	248	248	33	26	17	10
24	92	121	128	89	110	600	248	179	34	34	16	9.0
25	94	116	483	87	116	580	256	141	31	23	14	9.0
26	83	200	489	85	100	460	219	113	28	19	11	9.0
27	73	406	304	80	92	400	231	102	26	17	11	8.1
28	62	263	238	75	83	320	380	92	25	16	10	7.7
29	63	200	208	75	65	260	861	81	28	252	10	7.4
30	64	170	183	70	---	300	553	81	124	422	11	7.4
31	60	---	164	70	---	550	---	79	---	143	11	---
TOTAL	3744	6915	5741	4313	2176	14782	15584	6943	2457	1857	843	298.0
MEAN	121	231	185	139	75.0	477	519	224	81.9	59.9	27.2	9.93
MAX	272	550	489	500	116	3200	2000	469	286	422	98	29
MIN	60	54	123	70	60	55	219	79	25	16	10	5.4
CFSM	1.19	2.27	1.81	1.36	.74	4.68	5.09	2.20	.80	.59	.27	.10
IN.	1.37	2.52	2.09	1.57	.79	5.39	5.68	2.53	.90	.68	.31	.11

CAL YR 1979	TOTAL	105418.0	MEAN 289	MAX 6070	MIN 10	CFSM 2.83	IN 38.45
WTR YR 1980	TOTAL	65653.0	MEAN 179	MAX 3200	MIN 5.4	CFSM 1.76	IN 23.94

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1953, April 1954, October 1960 to September 1961, June 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1975 to current year.

WATER TEMPERATURES: March 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since March 27, 1975.

REMARKS.--Unpublished records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn. Interruptions in the record from March 1979 to June 27, 1980 are due to malfunctions of the instrument and vandalism. New instruments installed June 27, 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 152 micromhos Aug. 31, 1977; minimum, 23 micromhos February 23, 1978; minimum daily, 45 micromhos Apr. 1, 1976.

WATER TEMPERATURES: Maximum, 32.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 148 micromhos Sept. 16; minimum recorded, 51 micromhos August 16.

WATER TEMPERATURES: Maximum recorded, 31.0°C July 21; minimum recorded, 9.5°C September 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
17...	1250	102	92	7.7	16.5	11.0	25	2.0	11.8	106	130	--
NOV												
20...	1115	123	86	5.9	13.0	5.5	20	1.0	13.0	103	880	--
DEC												
14...	1100	212	78	6.6	2.0	2.0	20	2.0	13.2	95	640	--
JAN												
15...	0910	212	81	6.6	9.0	3.5	10	2.0	12.8	95	440	26
FEB												
12...	1100	70	97	7.9	3.0	.5	5	1.0	14.6	104	96	33
MAR												
21...	1515	811	68	6.9	10.0	6.0	20	5.0	12.5	100	270	96
APR												
15...	0910	688	65	7.0	15.0	10.5	10	1.0	11.2	100	760	60
MAY												
20...	1245	168	79	7.2	26.0	18.5	13	2.0	9.6	100	180	46
JUN												
16...	1345	51	79	7.5	22.0	21.0	20	1.0	9.6	106	100	K18
JUL												
21...	1330	17	96	7.5	35.0	29.0	9	1.0	8.6	113	--	60
AUG												
15...	1240	21	94	7.3	25.0	22.0	15	1.0	11.4	130	2100	64
SEP												
02...	1045	10	102	7.2	34.0	23.5	0	1.0	6.8	80	130	28

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
17...	23	K6	21	5	5.8	1.6	16	12	13	9.4	89	.12
NOV												
20...	40	K10	--	--	--	--	--	--	11	--	104	.14
DEC												
14...	400	740	--	--	--	--	--	--	11	--	54	.07
JAN												
15...	--	220	18	0	4.9	1.5	21	12	10	8.6	61	.08
FEB												
12...	--	K2	--	--	--	--	--	--	12	--	62	.08
MAR												
21...	--	2100	--	--	--	--	--	--	8.5	--	56	.08
APR												
15...	--	96	15	8	4.0	1.1	7	9.8	8.0	6.5	48	.07
MAY												
20...	--	K8	--	--	--	--	--	--	9.2	--	56	.08
JUN												
16...	--	K14	--	--	--	--	--	--	11	--	66	.09
JUL												
21...	--	K16	1	0	.1	.1	8	10	14	8.2	76	.10
AUG												
15...	--	K14	--	--	--	--	--	--	15	--	65	.09
SEP												
02...	--	80	--	--	--	--	--	--	17	--	73	.10

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS- DIS- SOLVED (TONS PER DAY)	SOLIDS- RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
17...	24.5	72	--	--	.18	.00	.00	.52	.52	.70	3.1
NOV											
20...	34.5	62	.27	.00	.27	.01	.01	.38	.39	.66	2.9
DEC											
14...	30.9	62	.33	.01	.34	.03	.04	.20	.23	.57	2.5
JAN											
15...	34.9	64	--	--	.44	.05	.06	.24	.29	.73	3.2
FEB											
12...	11.7	63	.35	.01	.36	.00	.00	.09	.09	.45	2.0
MAR											
21...	123	60	.46	.00	.46	.10	.12	.56	.66	1.1	5.0
APR											
15...	89.2	62	--	--	.28	.01	.01	.26	.27	.55	2.4
MAY											
20...	25.4	60	.33	.03	.36	.08	.10	.36	.44	.80	3.5
JUN											
16...	9.09	72	.23	.00	.23	.02	.02	.27	.29	.52	2.3
JUL											
21...	3.49	70	--	--	.21	.02	.02	.25	.27	.48	2.1
AUG											
15...	3.69	57	.19	.00	.19	.04	.05	.06	.10	.29	1.3
SEP											
02...	1.97	73	.27	.00	.27	.00	.00	.10	.10	.37	1.6

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
17...	.010	.03	2	140	4	0	5.2	.00	.000	.000
NOV										
20...	.010	.03	3	--	--	10	3.4	--	--	--
DEC										
14...	.010	.03	0	--	--	0	4.1	--	--	--
JAN										
15...	.010	.03	2	70	20	3	5.2	.00	.000	.000
FEB										
12...	.010	.03	1	--	--	10	.8	--	--	--
MAR										
21...	.010	.03	1	--	--	10	5.9	--	--	--
APR										
15...	.010	.03	1	70	20	7	4.0	.00	.000	.000
MAY										
20...	.010	.03	4	--	--	10	4.5	--	--	--
JUN										
16...	.010	.03	2	--	--	0	5.8	--	--	--
JUL										
21...	.000	.00	1	0	0	9	2.2	.00	.170	.000
AUG										
15...	.030	.09	3	--	--	0	4.7	--	--	--
SEP										
02...	.020	.06	3	--	--	0	1.9	--	--	--

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	94	88	90	90	68	73	114	80	98
2	---	---	---	92	89	91	95	72	83	119	83	101
3	---	---	---	98	88	91	97	61	72	113	83	99
4	---	---	---	94	90	91	95	74	87	110	83	96
5	---	---	---	94	90	91	98	68	89	110	92	103
6	---	---	---	91	84	87	95	66	83	112	89	102
7	---	---	---	92	88	91	88	74	82	123	91	107
8	---	---	---	93	89	91	83	66	76	111	94	105
9	---	---	---	93	88	90	85	74	81	115	97	108
10	---	---	---	94	88	91	85	77	81	121	108	114
11	---	---	---	95	88	92	88	82	86	129	99	115
12	---	---	---	97	89	93	79	71	76	125	99	112
13	---	---	---	97	90	93	77	61	71	131	103	116
14	---	---	---	100	92	95	87	64	77	140	110	126
15	---	---	---	100	93	96	94	61	82	142	134	138
16	---	---	---	100	92	96	69	51	59	148	113	132
17	---	---	---	101	93	97	64	53	59	134	117	126
18	---	---	---	101	94	97	77	64	70	116	98	106
19	---	---	---	101	94	97	83	75	80	106	87	97
20	---	---	---	100	95	98	84	66	76	112	90	100
21	---	---	---	105	96	99	73	60	66	118	112	115
22	---	---	---	102	90	93	68	59	63	124	117	120
23	---	---	---	102	90	96	72	66	69	128	119	124
24	---	---	---	94	87	90	88	68	79	130	119	124
25	---	---	---	94	86	90	84	70	76	126	117	121
26	---	---	---	93	85	89	88	70	81	136	123	126
27	108	96	100	95	85	89	101	72	88	126	120	123
28	100	95	97	93	83	87	104	85	92	125	118	121
29	102	89	96	91	57	81	111	90	106	125	117	121
30	101	84	91	80	60	67	104	86	92	126	117	121
31	---	---	---	77	66	71	117	80	98	---	---	---
MONTH	109	84	96	105	57	91	117	51	79	148	80	114

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	21.0	16.5	18.5	24.5	21.0	23.0	29.0	22.5	25.5
2	---	---	---	20.0	18.0	19.0	26.5	22.0	24.0	30.0	23.0	26.0
3	---	---	---	20.5	18.5	19.5	25.5	22.0	23.5	27.5	22.0	24.5
4	---	---	---	25.0	19.0	21.5	26.0	22.5	24.0	26.0	19.0	22.5
5	---	---	---	23.5	18.5	21.0	27.5	22.5	25.0	23.0	20.5	22.0
6	---	---	---	23.0	19.0	20.5	27.5	24.0	25.5	26.5	20.5	23.0
7	---	---	---	22.5	16.5	19.5	28.0	23.0	25.0	24.5	18.5	21.5
8	---	---	---	20.0	17.0	18.5	28.5	22.5	25.0	23.0	16.0	19.5
9	---	---	---	22.0	16.5	19.5	29.5	24.0	26.0	21.5	14.0	18.0
10	---	---	---	24.5	19.0	21.5	27.0	21.0	23.5	23.0	18.0	20.0
11	---	---	---	26.0	20.5	22.5	24.5	22.0	23.0	21.5	13.5	18.0
12	---	---	---	26.0	20.5	22.5	26.5	22.0	24.0	22.5	15.5	19.0
13	---	---	---	24.5	17.5	20.5	26.0	20.0	23.0	23.5	18.0	20.5
14	---	---	---	26.5	17.5	21.5	23.0	20.0	21.5	24.0	19.5	21.5
15	---	---	---	26.0	18.5	22.0	24.5	20.5	22.0	21.5	18.0	20.0
16	---	---	---	29.0	21.0	24.5	22.0	18.0	20.0	19.5	14.5	17.0
17	---	---	---	27.5	22.5	24.5	24.5	16.0	20.0	20.0	14.5	17.5
18	---	---	---	29.0	21.0	24.5	24.5	17.0	20.5	21.0	17.5	19.0
19	---	---	---	27.0	20.5	23.5	22.5	19.5	21.0	19.5	14.5	17.0
20	---	---	---	29.0	22.0	25.0	22.0	19.5	20.5	20.5	15.0	17.5
21	---	---	---	31.0	23.0	26.5	20.5	18.5	19.5	24.0	17.5	20.5
22	---	---	---	30.0	23.5	26.0	23.5	18.5	20.5	26.0	20.0	22.5
23	---	---	---	25.5	23.0	24.0	25.0	17.0	21.0	24.0	18.0	21.5
24	---	---	---	26.5	21.0	23.0	26.0	18.0	22.0	19.0	15.0	17.0
25	---	---	---	27.0	19.0	22.5	26.0	19.5	22.5	16.0	13.0	15.0
26	---	---	---	27.5	19.0	23.0	27.5	19.5	23.5	19.0	14.5	16.5
27	26.0	20.0	23.0	26.5	20.5	23.0	28.0	21.5	24.5	15.5	11.0	13.0
28	24.0	19.0	21.0	27.0	20.5	23.5	26.0	21.0	23.5	16.0	9.5	12.5
29	19.5	18.0	19.0	22.5	20.5	21.0	22.5	20.5	21.5	16.0	11.0	13.5
30	19.0	17.0	18.0	23.0	20.5	21.5	23.5	19.5	21.5	17.0	11.0	14.0
31	---	---	---	24.5	21.0	22.5	27.5	21.5	24.0	---	---	---
MONTH	26.0	17.0	20.5	31.0	16.5	22.0	29.5	16.0	22.5	30.0	9.5	19.0

CONNECTICUT RIVER BASIN

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT

LOCATION.--Lat 41°27'05", long 72°27'55", Middlesex County, Hydrologic Unit 01080205, at bridge on State Highway 82, at East Haddam, 1.1 mi (1.8 km) downstream from Salmon River and 3.7 mi (6.0 km) upstream from Chester Creek.

DRAINAGE AREA.--11,092 mi² (28,728 km²).

PERIOD OF RECORD.--Water years 1968, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
10...	0900	5.0	93	6.8	4.0	13.5	35	8.0	8.4	78	4200	--
NOV												
16...	1645	5.0	105	6.9	.0	8.0	25	9.0	9.2	77	10000	--
DEC												
11...	0830	5.0	104	6.6	10.5	5.5	10	2.0	12.4	98	14000	--
JAN												
15...	0830	5.0	110	6.6	9.5	3.0	10	4.0	12.1	90	3200	320
FEB												
12...	0915	5.0	136	7.4	2.5	1.5	5	3.0	14.0	100	880	28
MAR												
21...	1400	5.0	98	6.9	10.0	4.5	10	6.0	12.5	96	3200	840
APR												
15...	0815	5.0	68	6.9	15.5	8.5	10	9.0	12.4	105	6100	1000
MAY												
13...	0815	5.0	100	6.8	16.0	14.0	5	4.0	8.4	82	5300	130
JUN												
10...	0845	5.0	128	6.8	11.0	17.5	10	6.0	8.0	83	1300	44
JUL												
11...	0900	5.0	120	6.9	22.5	24.0	8	3.0	7.8	92	4300	20
AUG												
12...	0900	5.0	132	7.1	24.0	28.0	5	2.0	7.2	91	740	130
SEP												
02...	1100	5.0	150	6.9	32.0	26.0	1	3.0	6.4	78	190	K8

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
10...	520	37	27	10	8.5	1.5	17	9.6	9.1	5.5	62	.08
NOV												
16...	2100	180	--	--	--	--	--	--	11	--	68	.09
DEC												
11...	980	52	--	--	--	--	--	--	8.9	--	65	.09
JAN												
15...	--	380	32	0	9.8	1.8	41	13	9.9	6.3	87	.12
FEB												
12...	--	23	--	--	--	--	--	--	13	--	77	.10
MAR												
21...	--	360	--	--	--	--	--	--	14	--	67	.09
APR												
15...	--	440	22	1	7.1	1.1	21	8.1	6.4	4.6	51	.07
MAY												
13...	--	K8	--	--	--	--	--	--	7.9	--	66	.09
JUN												
10...	--	<1	--	--	--	--	--	--	10	--	72	.10
JUL												
11...	--	K12	38	12	12	2.0	26	13	14	1.1	101	.14
AUG												
12...	--	20	--	--	--	--	--	--	12	--	80	.11
SEP												
02...	--	K8	--	--	--	--	--	--	15	--	95	.13

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

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01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT										
10...	92	--	--	.32	.10	.12	.72	.82	1.1	5.0
NOV										
16...	89	.36	.02	.38	.11	.13	.38	.49	.87	3.9
DEC										
11...	81	.40	.01	.41	.14	.17	.29	.43	.84	3.7
JAN										
15...	75	--	--	.55	.19	.23	.21	.40	.95	4.2
FEB										
12...	79	.44	.03	.47	.36	.44	.38	.74	1.2	5.4
MAR										
21...	68	.51	.01	.52	.19	.23	.31	.50	1.0	4.5
APR										
15...	120	--	--	.35	.09	.11	.43	.52	.87	3.9
MAY										
13...	80	.40	.12	.52	.19	.23	.46	.65	1.2	5.2
JUN										
10...	92	.37	.02	.39	.28	.34	.45	.73	1.1	5.0
JUL										
11...	83	--	--	.40	.20	.24	.12	.32	.72	3.2
AUG										
12...	89	.40	.01	.41	.28	.34	.10	.38	.79	3.5
SEP										
02...	101	.43	.02	.45	.18	.22	.41	.59	1.0	4.6

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
10...	.100	.31	5	140	10	7	6.2	.00	4.40	.000
NOV										
16...	.130	.40	6	--	--	10	5.4	--	--	--
DEC										
11...	.060	.18	4	--	--	0	3.8	--	--	--
JAN										
15...	.080	.25	4	90	30	20	--	.00	.000	.000
FEB										
12...	.150	.46	9	--	--	10	3.8	--	--	--
MAR										
21...	.080	.25	4	--	--	10	3.0	--	--	--
APR										
15...	.070	.21	4	100	10	0	5.3	.10	1.71	.000
MAY										
13...	.510	1.6	4	--	--	10	4.2	--	--	--
JUN										
10...	.090	.28	3	--	--	10	3.8	--	--	--
JUL										
11...	.150	.46	5	20	1	5	4.0	.00	17.2	.420
AUG										
12...	.160	.49	5	--	--	0	11	--	--	--
SEP										
02...	.130	.40	5	--	--	10	6.1	--	--	--

01194500 EAST BRANCH EIGHTMILE RIVER NEAR NORTH LYME, CT

LOCATION.--Lat 41°25'40", long 72°20'05", New London County, Hydrologic Unit 01080205, on left bank at bridge on State Highway 156, 0.4 mi (0.6 km) upstream from mouth, 1.1 mi (1.8 km) north of North Lyme, 1.2 mi (1.9 km) south of North Plain, and 5.5 mi (8.8 km) upstream from mouth of Eightmile River.

DRAINAGE AREA.--22.3 mi² (57.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 54.21 ft (16.523 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--43 years, 45.7 ft³/s (1.294 m³/s), 27.83 in/yr (707 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft³/s (83.5 m³/s) Sept. 21, 1938, gage height, 7.00 ft (2.134 m), computed on basis of study of flow at contracted control section; no flow Sept. 3, 1938, result of regulation; minimum daily, about 0.03 ft³/s (about 0.001 m³/s) Oct. 2, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

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. 18	1530	572	16.2	4.35	1.326	Apr. 4	2300	370	10.5	3.73	1.137
22	1100	*1,090	30.9	*5.84	1.780	10	1530	719	20.4	4.77	1.454

Minimum discharge, 0.38 ft³/s (0.011 m³/s) Sept. 12-17, gage height, 0.59 ft (0.180 m); minimum daily, 0.38 ft³/s (0.011 m³/s) Sept. 12, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	32	30	13	12	182	104	17	11	18	1.1
2	23	18	30	28	12	11	135	81	26	8.4	11	1.1
3	22	151	27	27	12	9.8	111	67	24	8.9	13	1.2
4	27	213	28	25	12	10	192	59	20	8.7	12	.80
5	23	108	27	25	12	11	284	57	15	6.6	8.9	.65
6	30	64	29	24	11	14	165	49	13	10	7.3	.55
7	27	52	74	24	12	14	124	47	36	8.7	6.0	.50
8	20	47	64	24	12	22	105	75	36	6.4	4.8	.48
9	20	42	42	23	12	33	100	104	27	5.8	4.3	.45
10	39	41	36	24	13	26	492	66	28	5.0	3.6	.40
11	55	48	34	28	12	50	339	53	22	4.5	3.5	.40
12	46	108	32	102	12	40	198	60	17	4.2	10	.38
13	49	97	43	73	12	27	160	66	14	3.5	9.1	.44
14	39	79	73	50	12	33	136	60	12	3.0	6.4	.49
15	30	65	50	46	12	38	141	48	11	2.7	5.6	.44
16	26	54	42	40	13	32	124	40	9.6	2.3	4.8	.38
17	23	46	35	34	13	35	97	36	8.4	2.3	3.8	.38
18	22	43	30	33	14	36.7	83	36	7.8	2.2	3.3	2.4
19	20	40	26	34	14	238	74	42	7.1	2.1	3.3	1.9
20	20	38	25	32	15	121	67	37	7.1	2.0	3.5	1.6
21	18	36	24	28	17	154	65	61	7.3	2.3	3.3	1.6
22	19	35	23	27	18	928	57	64	6.6	3.5	3.1	1.0
23	19	34	25	26	26	549	53	43	5.8	6.0	3.0	.75
24	24	33	35	25	30	284	50	34	5.4	5.0	2.7	.60
25	26	32	74	24	25	238	47	29	5.0	4.5	2.3	1.0
26	22	40	102	23	22	223	47	24	4.5	4.0	2.1	1.6
27	19	69	61	23	18	171	47	22	4.3	3.8	1.9	1.4
28	19	55	46	22	17	139	86	19	4.0	3.5	1.6	1.0
29	24	42	39	21	15	122	230	17	4.0	20	1.5	.84
30	23	35	36	19	---	135	163	16	10	70	1.5	.76
31	20	---	33	15	---	141	---	16	---	42	1.5	---
TOTAL	809	1783	1277	979	438	4227.8	4154	1532	414.9	272.9	166.7	26.59
MEAN	26.1	59.4	41.2	31.6	15.1	136	138	49.4	13.8	8.80	5.38	.89
MAX	55	213	102	102	30	928	492	104	36	70	18	2.4
MIN	15	18	23	15	11	9.8	47	16	4.0	2.0	1.5	.38
CFSM	1.17	2.66	1.85	1.42	.68	6.10	6.19	2.22	.62	.40	.24	.04
IN.	1.35	2.97	2.13	1.63	.73	7.05	6.93	2.56	.69	.46	.28	.04

CAL YR 1979 TOTAL 23981.80 MEAN 65.7 MAX 1400 MIN 2.2 CFSM 2.95 IN 40.00
WTR YR 1980 TOTAL 16080.89 MEAN 43.9 MAX 928 MIN .38 CFSM 1.97 IN 26.82

CONNECTICUT RIVER BASIN

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01194825 CONNECTICUT RIVER AT OLD SAYBROOK, CT

LOCATION.--Lat. 41°15'47", long. 72°20'36", Middlesex County, Hydrologic Unit 01080205, on right bank of Saybrook Jetties at Breakwater Lighthouse, 3.0 mi (4.8 km) southeast of Old Saybrook, and at mouth of Connecticut River.

DRAINAGE AREA.--11,269 mi² (29,186 km²).

PERIOD OF RECORD.--June 1976 to February 1978, at station 01194820, 0.6 mi (1.0 km) north, October 26, 1979, to September 30, 1980.

GAGE.--Water stage recorder. Datum of staff gage is set at National Geodetic Vertical Datum of 1929. Datum of gage-height record is 4.56 ft (1.390 m) below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication. Prior to Feb. 1978, at site 0.6 mi (1.0 km) north at Lynde Point, at datum 5.12 ft (1.561 m) lower.

REMARKS.--Stage data in feet at 15-minute intervals available upon request. No record Dec. 18-31, Sept. 10-23.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 6.65 ft (2.027 m) Feb. 6, 1978; minimum, -3.65 ft (-1.112 m) Mar. 16, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation, 4.81 ft (1.466 m) Mar. 22; minimum, -3.65 ft (-1.112 m) Mar. 16.

REVISIONS.--Revised maximum and minimum monthly tidal elevations, in feet, for water year 1978, are given below. These figures supercede those published in the report for 1978 for station 01194820.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	4.53	5.21	4.14	5.25	6.65	-	-	-	-	-	-	-
	Date	14	8	19	10	6	-	-	-	-	-	-	-
	Time	1115	0515	0600	0700	2100	-	-	-	-	-	-	-
Minimum low tide	Elevation	-2.56	-2.45	-2.55	-2.53	-1.73	-	-	-	-	-	-	-
	Date	17	11	7	10	4	-	-	-	-	-	-	-
	Time	2015	1545	1300	0430	1300	-	-	-	-	-	-	-

NOTE.--Time shown is eastern standard

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	2.89	3.38	2.92	3.62	3.05	4.81	3.65	3.45	3.28	3.28	3.21	3.51
	Date	28	3	2	17	16	22	14	2	29	29	23	25
	Time	1615	0900	0900	1000	1030	0230	2215	2345	2400	2400	2015	1100
Minimum low tide	Elevation	-1.63	-2.53	-3.34	-3.08	-2.80	-3.65	-2.76	-2.38	-2.41	-2.55	-2.00	-2.69
	Date	31	17	8	26	18	16	17	17	12,13	3	28	27
	Time	0015	1500	1930	1200	1800	0215	0545	0630	0345, 0430	0730	0545	0545

NOTE.--Time shown is eastern standard.

RESERVOIRS IN CONNECTICUT RIVER BASIN

- 01185000 OTIS RESERVOIR.--Lat 42°09'35", long 73°03'33", Berkshire County, Mass., Hydrologic Unit 01080207, on Fall River in West Branch Farmington River basin, 1 mi (2 km) northeast of Cold Spring. Drainage area, 15.9 mi² (41.2 km²). Usable capacity, 780,000,000 ft³ (22.1 hm³). Records available, April 1913 to current year. Completed in 1865 for storage of water for power. Records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks.
- 01185850 COLEBROOK RIVER LAKE.--Lat 42°00'22", long 73°02'12", Hartford County, Conn., Hydrologic Unit 01080207, on West Branch Farmington River, 1.6 mi (2.6 km) upstream from West Branch Reservoir, and 3.1 mi (5.0 km) north of Riverton. Drainage area, 119 mi² (308 km²). Usable capacity, 4,213,000,000 ft³ (11.9 hm³). Records available, June 1969 to current year. Completed in June 1969 for multi-purpose use. Records furnished by Corps of Engineers.
- 01185900 WEST BRANCH RESERVOIR.--Lat 41°59'22", long 73°01'15", Hartford County, Conn., Hydrologic Unit 01080207, on West Branch Farmington River, 2 mi (3 km) west of Hartland, and 2 mi (3 km) north of Riverton. Drainage area, 127 mi² (329 km²). Usable capacity, 374,000,000 ft³ (10.6 hm³). Records available, March 1960 to current year. Completed in April 1960 for future storage of water for municipal supply of Hartford. Presently used to compensate for water diverted from the river. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01186090 MAD RIVER DETENTION RESERVOIR.--Lat 41°55'53", long 73°05'33", Litchfield County, Conn., Hydrologic Unit 01080207, on Mad River in West Branch Farmington River basin, 1.4 mi (2.3 km) northwest of Winsted. Drainage area, 18.3 mi² (47.4 km²). Usable capacity, 423,000,000 ft³ (12.0 hm³), including 8,000,000 ft³ (227,000 m³) storage in recreation pool. Records available, September 1964 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186150 SUCKER BROOK RESERVOIR.--Lat 41°54'09", long 73°06'00", Litchfield County, Conn., Hydrologic Unit 01080207, at mouth of Sucker Brook, a tributary of Highland Lake in West Branch Farmington River basin, 2 mi (3 km) southwest of Winsted. Drainage area, 3.50 mi² (9.06 km²). Usable capacity, 64,500,000 ft³ (1.83 hm³). Records available, February 1971 to current year. Completed in 1970 by Corps of Engineers for storage of water for flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186160 HIGHLAND LAKE.--Lat 41°55'22", long 73°04'58", Litchfield County, Conn., Hydrologic Unit 01080207, at head of the Lake Stream, a tributary of Mad River in West Branch Farmington River basin, at Winsted, and 0.4 mi (0.6 km) upstream from Mad River. Drainage area, 7.05 mi² (18.26 km²). Usable capacity, 144,400,000 ft³ (4.089 hm³), based on Lake survey by Conn. Board of Fisheries and Game. Records available, September 1936 to current year. Dam raised to its present crest elevation in 1875. Lake used for storage of water for power, recreation, and flood control. Capacity and contents figures computed by U.S. Geological Survey.
- 01187500 BARKHAMSTED RESERVOIR.--Lat 41°54'38", long 72°57'15", Litchfield County, Conn., Hydrologic Unit 01080207, on East Branch Farmington River, 1.2 mi (1.9 km) south of Barkhamsted. Drainage area, 52.5 mi² (136.0 km²). Usable capacity, 4,050,000,000 ft³ (115 hm³). Records available, October 1950 to current year. For period March 1940 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1939 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01187600 EAST BRANCH RESERVOIR.--Lat 41°52'49", long 72°57'30", Litchfield County, Conn., Hydrologic Unit 01080207, on East Branch Farmington River in Farmington River basin, 1 mi (2 km) east of New Hartford. Drainage area, including Barkhamsted Reservoir, 61.2 mi² (158.5 km²). Usable capacity, 393,000,000 ft³ (11.1 hm³). Records available, October 1950 to current year. For period August 1928 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1919 for storage of water to compensate for water diverted from the river for municipal supply of Hartford. Since the construction of West Branch Reservoir in April 1960, it has been used only for recreation. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01187900 NEPAUG RESERVOIR.--Lat 41°49'37", long 72°56'34", Litchfield County, Conn., Hydrologic Unit 01080207, on Nepaug River in Farmington River basin, 1.5 mi (2.4 km) northwest of Collinsville. Drainage area, 31.6 mi² (81.8 km²). Usable capacity, 1,270,000,000 ft³ (36.0 hm³). Records available, August 1928 to current year. Completed in 1918 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01188500 WHIGVILLE RESERVOIR.--Lat 41°44'08", long 72°57'02", Hartford County, Conn., Hydrologic Unit 01080207, on Whigville Brook in Pequabuck River basin, at Whigville. Drainage area, 4.10 mi² (10.62 km²). Usable capacity, 5,050,000 ft³ (143,000 m³). Records available, July 1928 to current year. Completed in 1908 for storage of water for municipal supply of New Britain. Records furnished by Board of Water Commissioners, New Britain, Conn.

RESERVOIRS IN CONNECTICUT RIVER BASIN--Continued

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	01185000 OTIS RESERVOIR	01185850 COLEBROOK RIVER LAKE	01185900 WEST BRANCH RESERVOIR	01186090 MAD RIVER DETENTION RESERVOIR	01186150 SUCKER BROOK RESERVOIR
Sept. 30, 1979.....	699.5	524	409	8.8	0.26
Oct. 31.....	506.5	907	409	8.9	.04
Nov. 30.....	361.2	1293	409	9.0	.09
Dec. 31.....	352.0	1409	408	9.1	.09
Jan. 31, 1980.....	352.0	1051	401	8.6	.04
Feb. 29.....	349.0	1000	386	8.6	.04
Mar. 31.....	492.5	2435	409	9.0	.17
Apr. 30.....	661.2	2339	409	9.0	.22
May 31.....	695.7	2223	409	8.6	.04
June 30.....	695.7	1511	409	8.9	.04
July 31.....	699.5	996	409	8.6	.04
Aug. 31.....	691.8	397	344	8.4	.04
Sept. 30.....	691.8	138	180	8.3	.04

Date	01186160 HIGHLAND LAKE	01187500 BARKHAMSTED RESERVOIR	01187600 EAST BRANCH RESERVOIR	01187900 NEPAUG RESERVOIR	01188500 WHIGVILLE RESERVOIR
Sept. 30, 1979.....	111.1	3751	213	980	3.7
Oct. 31.....	74.5	3896	111	1019	3.0
Nov. 30.....	75.6	4053	166	1132	4.8
Dec. 31.....	69.0	4053	219	1251	4.4
Jan. 31, 1980.....	63.5	4041	337	1265	3.0
Feb. 29.....	81.2	3993	362	1210	2.7
Mar. 31.....	144.4	4053	393	1269	5.1
Apr. 30.....	131.3	4053	393	1269	5.1
May 31.....	139.0	4033	370	1247	2.4
June 30.....	144.4	3941	372	1170	3.3
July 31.....	128.7	3848	389	1049	2.5
Aug. 31.....	126.0	3705	368	952	2.6
Sept. 30.....	88.1	3479	183	849	2.2

EAST RIVER BASIN

01195200 NECK RIVER NEAR MADISON, CT

LOCATION.--Lat 41°16'57", long 72°37'11", New Haven County, Hydrologic Unit 01100004, on left bank just upstream from culvert on Fort Path Road, 1.2 mi (1.9 km) west of Madison, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--6.55 mi² (16.96 km²).

PERIOD OF RECORD.--September 1961 to current year.

REVISED RECORDS.--WSP 2101: 1963(P).

GAGE.--Water-stage recorder. Datum of gage is 8.93 ft (2.722 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--19 years, 12.0 ft³/s (0.340 m³/s), 24.88 in/yr (632 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 560 ft³/s (15.9 m³/s) Jan. 26, 1978, gage height, 6.37 ft (1.942 m); no flow Sept. 24, 26, 27, 1964, Aug. 1, 1965, Aug. 9, 1979, Sept. 11-13, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft³/s (2.26 m³/s) and maximum (*):

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. 22	1330	*282 7.99	*4.67 0.814	Apr. 10	1500	248 7.02	4.38 1.335
Apr. 5	0430	128 3.62	3.28 1.000				

Minimum discharge, no flow Sept. 11-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.2	5.8	10	2.8	4.5	53	28	6.0	6.9	2.9	.07
2	9.6	4.0	5.5	10	2.7	4.0	38	23	6.2	3.3	2.0	.06
3	7.5	16	5.1	9.5	2.5	3.5	29	21	7.0	3.1	9.7	.07
4	12	33	5.0	8.2	2.3	3.5	52	19	9.0	2.6	7.8	.05
5	11	18	4.9	8.2	2.3	3.5	99	17	7.2	1.8	3.1	.04
6	7.6	11	5.1	7.6	2.3	3.5	48	16	5.2	8.9	1.7	.04
7	5.4	8.6	12	7.4	2.3	4.0	33	15	7.2	7.1	1.1	.03
8	4.0	7.5	14	6.2	2.3	5.5	28	25	11	2.6	.75	.02
9	3.7	7.1	9.8	6.0	2.3	9.7	27	32	8.8	1.7	.51	.01
10	8.2	7.1	7.6	6.6	2.3	9.2	178	22	11	1.2	.30	.01
11	12	8.4	6.9	6.6	2.3	20	102	18	8.3	1.0	.66	.00
12	11	19	6.6	15	2.3	25	51	18	5.3	.85	3.7	.00
13	10	21	8.8	15	2.3	21	37	20	4.1	.58	2.1	.00
14	8.6	15	14	13	2.3	17	33	21	3.1	.45	1.1	.01
15	6.6	12	12	13	2.4	20	36	18	2.7	.35	.93	.02
16	5.5	10	13	11	2.4	18	31	14	2.4	.30	.66	.01
17	4.9	9.0	12	9.7	2.4	17	26	12	2.0	.30	.45	.01
18	4.4	8.4	9.5	9.2	2.4	38	23	12	1.7	.26	.30	.75
19	4.1	7.8	7.6	11	2.5	52	22	15	1.6	.19	.51	.51
20	4.0	7.5	6.6	11	2.5	29	20	13	1.6	.19	.58	.19
21	4.0	7.1	6.6	9.0	2.6	34	19	17	1.4	.16	.45	.12
22	4.0	6.9	6.5	8.2	6.0	233	18	28	1.3	.14	.35	.08
23	4.1	6.8	6.5	7.0	8.0	126	17	19	1.0	.30	.26	.06
24	4.4	6.6	10	6.0	12	57	16	13	.93	.35	.19	.03
25	4.4	6.4	20	5.0	10	54	16	10	.75	.19	.14	.03
26	4.0	7.5	35	4.5	8.0	53	15	8.6	.66	.12	.10	.19
27	3.8	9.2	23	4.3	7.0	36	16	7.2	.58	.10	.10	.12
28	3.9	8.4	17	4.0	6.0	29	31	6.4	.51	.08	.07	.07
29	5.1	7.3	14	3.5	5.5	27	71	5.7	.66	6.0	.07	.06
30	5.3	6.4	13	3.5	---	35	44	5.3	5.8	26	.07	.05
31	4.9	---	12	3.0	---	38	---	5.3	---	11	.08	---
TOTAL	192.4	307.2	335.4	252.2	113.0	1029.9	1229	504.5	124.99	88.11	42.73	2.71
MEAN	6.21	10.2	10.8	8.14	3.90	33.2	41.0	16.3	4.17	2.84	1.38	.090
MAX	12	33	35	15	12	233	178	32	11	26	9.7	.75
MIN	3.7	4.0	4.9	3.0	2.3	3.5	15	5.3	.51	.08	.07	.00
CFSM	.95	1.56	1.65	1.24	.60	5.07	6.26	2.49	.64	.43	.21	.01
IN.	1.09	1.74	1.90	1.43	.64	5.85	6.98	2.86	.71	.50	.24	.02
CAL YR 1979 TOTAL	5859.05			MEAN 16.1	MAX 262	MIN .00	CFSM 2.46	IN 33.27				
WTR YR 1980 TOTAL	4222.14			MEAN 11.5	MAX 233	MIN .00	CFSM 1.76	IN 23.98				

QUINNIPIAC RIVER BASIN

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01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, Hydrologic Unit 01100004, at bridge on Cheshire Street, 3 mi (5 km) west of Meriden, and 1.7 mi (2.7 km) upstream from Hanover Pond.

DRAINAGE AREA.--69.6 mi² (180.3 km²).

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01196220, 1.2 mi (1.9 km) upstream, and adjusting its discharge by multiplying by a factor of 1.02, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
10...	1520	138	205	7.0	1.0	10.0	20	7.0	6.8	66	44000	--
NOV												
16...	1335	121	215	6.8	3.0	7.5	10	6.0	10.1	84	16000	--
DEC												
11...	1445	114	227	6.6	16.0	5.0	10	3.0	11.2	88	36000	--
JAN												
22...	0915	98	260	6.9	2.0	2.0	5	4.0	13.9	100	66000	25000
FEB												
15...	1430	66	315	7.4	3.5	3.5	10	3.0	--	--	40000	4200
MAR												
24...	1300	579	125	7.0	14.0	6.0	5	7.0	11.7	94	14000	1200
APR												
15...	1510	541	142	7.0	19.0	12.5	10	2.0	10.1	94	9500	160
MAY												
13...	1425	177	206	6.8	24.0	15.5	6	3.0	7.8	78	2200	130
JUN												
10...	1400	99	230	6.9	15.0	14.0	5	6.0	7.2	69	3000	220
JUL												
11...	1515	58	270	6.9	30.5	21.0	4	4.0	4.5	50	10000	240
AUG												
12...	1440	82	250	7.0	29.0	22.0	5	2.0	5.4	61	28000	4300
SEP												
05...	1400	23	325	6.9	22.0	18.0	5	4.0	3.8	40	16000	220

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
10...	7300	520	69	24	22	3.3	45	18	18	11	126	.17
NOV												
16...	14000	1300	--	--	--	--	--	--	19	--	135	.18
DEC												
11...	20000	100	--	--	--	--	--	--	18	--	133	.18
JAN												
22...	--	7100	79	--	25	4.0	55	22	19	12	148	.20
FEB												
15...	--	680	--	--	--	--	--	--	26	--	168	.23
MAR												
24...	--	160	--	--	--	--	--	--	11	--	70	.10
APR												
15...	--	76	45	8	14	2.4	37	14	12	7.7	85	.12
MAY												
13...	--	32	--	--	--	--	--	--	15	--	132	.18
JUN												
10...	--	48	--	--	--	--	--	--	20	--	143	.19
JUL												
11...	--	150	85	17	27	4.2	68	19	22	12	176	.24
AUG												
12...	--	2700	--	--	--	--	--	--	21	--	170	.23
SEP												
05...	--	170	--	--	--	--	--	--	27	--	197	.27

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
10...	46.9	148	--	--	1.2	.31	.38	.89	1.2	2.4	11
NOV											
16...	44.1	149	1.3	.03	1.3	.54	.65	.29	.83	2.1	9.4
DEC											
11...	40.9	152	1.4	.01	1.4	.59	.71	.27	.86	2.3	10
JAN											
22...	39.2	152	1.6	.02	1.6	1.1	1.3	.30	1.4	3.0	13
FEB											
15...	29.9	172	1.7	.04	1.7	.03	.04	2.4	2.4	4.1	18
MAR											
24...	109	84	.97	.03	1.0	.93	1.1	.00	.46	1.5	6.5
APR											
15...	124	116	--	--	.75	.29	.35	.11	.40	1.2	5.1
MAY											
13...	63.1	139	1.2	.05	1.2	.38	.46	.38	.76	2.0	8.7
JUN											
10...	38.2	166	1.9	.09	2.0	.26	.31	1.0	1.3	3.3	15
JUL											
11...	27.6	174	--	--	2.6	.39	.47	.34	.73	3.3	15
AUG											
12...	37.6	169	1.7	.04	1.7	.45	.54	.06	.51	2.2	9.8
SEP											
05...	12.2	211	1.7	.17	1.9	.07	.08	1.8	1.9	3.8	17

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
10...	.280	.86	7	160	70	30	6.1	.10	.000	.000
NOV										
16...	.310	.95	4	--	--	30	4.2	--	--	--
DEC										
11...	.340	1.0	5	--	--	30	3.8	--	--	--
JAN										
22...	.380	1.2	11	100	110	30	5.3	.10	.000	.000
FEB										
15...	.610	1.9	7	--	--	30	3.9	--	--	--
MAR										
24...	.110	.34	7	--	--	30	3.5	--	--	--
APR										
15...	.180	.55	6	100	40	40	2.7	.10	2.51	.000
MAY										
13...	.210	.64	5	--	--	10	3.2	--	--	--
JUN										
10...	.420	1.3	5	--	--	10	6.6	--	--	--
JUL										
11...	.680	2.1	6	90	190	7	5.4	.10	8.04	1.85
AUG										
12...	.560	1.7	7	--	--	0	8.4	--	--	--
SEP										
05...	.940	2.9	5	--	--	30	8.7	--	--	--

QUINNIPIAC RIVER BASIN

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01196250 HARBOR BROOK AT WESTFIELD ROAD AT MERIDEN, CT

LOCATION.--Lat 41°32'54", long 72°46'40", New Haven County, Hydrologic Unit 01100004, at second bridge downstream from Baldwin Pond, 10 ft (3 m) downstream from Westfield Road at downstream right wingwall, at Meriden.

DRAINAGE AREA.--8.32 mi² (21.5 km²).

PERIOD OF RECORD.--May 1, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 167.36 ft (51.011 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) by measurement of flow over dam 0.2 mi (0.3 km) upstream and contracted-opening measurement 0.4 mi (0.6 km) downstream, Jan. 25, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 295 ft³/s (8.35 m³/s) Sept. 18, gage height, 4.60 ft (1.402 m).

DATE: SEP. 17, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND
001500	0.08	043000	0.08	084500	0.08	130000	0.08	171500	0.08	213000	0.07
003000	0.08	044500	0.08	090000	0.08	131500	0.08	173000	0.08	214500	0.07
004500	0.08	050000	0.08	091500	0.08	133000	0.08	174500	0.08	220000	0.08
010000	0.08	051500	0.08	093000	0.08	134500	0.08	180000	0.08	221500	0.07
011500	0.08	053000	0.08	094500	0.08	140000	0.08	181500	0.08	223000	0.08
013000	0.08	054500	0.08	100000	0.08	141500	0.08	183000	0.08	224500	0.09
014500	0.08	060000	0.08	101500	0.08	143000	0.08	184500	0.08	230000	0.16
020000	0.08	061500	0.08	103000	0.08	144500	0.08	190000	0.08	231500	0.47
021500	0.08	063000	0.08	104500	0.08	150000	0.08	191500	0.08	233000	2.0
023000	0.08	064500	0.08	110000	0.08	151500	0.08	193000	0.08	234500	0.52
024500	0.08	070000	0.08	111500	0.08	153000	0.08	194500	0.08	240000	34
030000	0.08	071500	0.08	113000	0.08	154500	0.08	200000	0.08		
031500	0.08	073000	0.08	114500	0.08	160000	0.08	201500	0.07		
033000	0.08	074500	0.08	120000	0.08	161500	0.08	203000	0.07		
034500	0.08	080000	0.08	121500	0.08	163000	0.08	204500	0.08		
040000	0.08	081500	0.08	123000	0.08	164500	0.08	210000	0.08		
041500	0.08	083000	0.08	124500	0.08	170000	0.08	211500	0.07		

DATE: SEP. 18, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND
001500	212	043000	30	084500	2.4	130000	0.63	171500	0.28	213000	0.17
003000	255	044500	24	090000	2.2	131500	0.63	173000	0.25	214500	0.17
004500	237	050000	19	091500	2.0	133000	0.63	174500	0.25	220000	0.17
010000	189	051500	14	093000	1.9	134500	0.57	180000	0.25	221500	0.17
011500	145	053000	12	094500	1.7	140000	0.57	181500	0.23	223000	0.16
013000	99	054500	10.0	100000	1.4	141500	0.52	183000	0.23	224500	0.16
014500	66	060000	8.5	101500	1.3	143000	0.47	184500	0.23	230000	0.16
020000	49	061500	7.4	103000	1.3	144500	0.47	190000	0.21	231500	0.16
021500	41	063000	6.4	104500	1.3	150000	0.42	191500	0.21	233000	0.16
023000	34	064500	6.0	110000	1.2	151500	0.42	193000	0.21	234500	0.16
024500	32	070000	5.2	111500	1.1	153000	0.38	194500	0.21	240000	0.16
030000	34	071500	4.8	113000	1.0	154500	0.34	200000	0.19		
031500	41	073000	4.2	114500	0.92	160000	0.34	201500	0.19		
033000	43	074500	3.8	120000	0.84	161500	0.31	203000	0.19		
034500	43	080000	3.5	121500	0.77	163000	0.31	204500	0.19		
040000	41	081500	3.2	123000	0.70	164500	0.28	210000	0.17		
041500	36	083000	2.9	124500	0.70	170000	0.28	211500	0.17		

QUINNIPIAC RIVER BASIN

413211072475201 RAIN GAGE AT MERIDEN TOWN HALL AT MERIDEN, CT

LOCATION.--Lat 41°32'11, long 72°47'52", New Haven County, Hydrologic Unit 01100004, on roof of Meriden Town Hall in Harbor Brook drainage basin, on East Main Street, 1.3 mi (2.1 km) northeast of gage on Bradley Avenue on Harbor Brook, at Meriden.

PERIOD OF RECORD.--July 21, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals. Records of daily rainfall, since 1950, are available in the files of the City of Meriden Engineering Department.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 6.58 in (167 mm) Oct. 16, 1955, recorded by City of Meriden at same site.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.23 in (5.84 mm) Sept. 17; maximum for 15 minutes, 0.58 in (14.7 mm) Sept. 17; maximum for 30 minutes, 0.69 in (17.5 mm) Sept. 17; maximum hourly, 1.10 in (27.9 mm) July 29; maximum daily, 2.79 in (70.9 mm) July 29.

DATE: JULY 29, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
091500	0.01	104500	0.09	121500	0.19	134500	0.03	151500	0.04		
093000	0.04	110000	0.24	123000	0.13	140000	0.04	153000	0.04		
094500	0.05	111500	0.27	124500	0.08	141500	0.07	154500	0.06		
100000	0.08	113000	0.18	130000	0.09	143000	0.04	160000	0.05		
101500	0.10	114500	0.36	131500	0.03	144500	0.06	161500	0.02		
103000	0.05	120000	0.29	133000	0.01	150000	0.04	163000	0.01		

DATE: SEP. 17, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
224500	0.20	231500	0.58	234500	0.05						
230000	0.07	233000	0.11	240000	0.01						

DATE: SEP. 18, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.01	013000	0.02	024500	0.07	040000	0.000	051500	0.000	063000	0.000
003000	0.01	014500	0.02	030000	0.01	041500	0.000	053000	0.01	064500	0.000
004500	0.01	020000	0.06	031500	0.01	043000	0.000	054500	0.02	070000	0.01
010000	0.000	021500	0.06	033000	0.000	044500	0.01	060000	0.000		
011500	0.01	023000	0.03	034500	0.000	050000	0.01	061500	0.000		

QUINNIPIAC RIVER BASIN

229

01196259 HARBOR BROOK AT MERIDEN, CT

LOCATION.--Lat 41°34'54", long 72°49'18", New Haven County, Hydrologic Unit 01100004, at Bradley Avenue on left wingwall, 0.6 mi (1.0 km) upstream from confluence of Quinnipiac River, at Meriden.

DRAINAGE AREA.--11.9 mi² (30.8 km²).

PERIOD OF RECORD.--May 1, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 97.01 ft (29.569 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Jan. 25, 1979, gage height, 8.29 ft (2.527 m), by contracted-opening measurement at Coe Avenue bridge 100 ft (30 m) downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 933 ft³/s (26.4 m³/s) July 29, gage height, 5.11 ft (1.558 m).

DATE: JULY 29, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	0.52	043000	0.52	084500	0.52	130000	927	171500	484	213000	275
003000	0.52	044500	0.52	090000	0.52	131500	921	173000	462	214500	269
004500	0.52	050000	0.52	091500	0.52	133000	910	174500	440	220000	260
010000	0.52	051500	0.52	093000	0.52	134500	870	180000	428	221500	252
011500	0.52	053000	0.52	094500	0.56	140000	817	181500	412	223000	246
013000	0.52	054500	0.52	100000	0.66	141500	782	183000	400	224500	238
014500	0.52	060000	0.52	101500	2.7	143000	763	184500	388	230000	230
020000	0.52	061500	0.52	103000	67	144500	735	190000	373	231500	222
021500	0.52	063000	0.52	104500	199	150000	708	191500	362	233000	214
023000	0.52	064500	0.52	110000	257	151500	675	193000	344	234500	207
024500	0.52	070000	0.52	111500	400	153000	649	194500	337	240000	202
030000	0.52	071500	0.52	113000	606	154500	626	200000	326		
031500	0.52	073000	0.52	114500	738	160000	606	201500	320		
033000	0.52	074500	0.52	120000	840	161500	603	203000	310		
034500	0.52	080000	0.52	121500	890	163000	583	204500	303		
040000	0.52	081500	0.52	123000	910	164500	562	210000	290		
041500	0.52	083000	0.52	124500	933	170000	526	211500	284		

DATE: JULY 30, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	195	043000	90	084500	41	130000	35	171500	10.0	213000	6.5
003000	186	044500	84	090000	39	131500	33	173000	10.0	214500	6.5
004500	179	050000	78	091500	37	133000	33	174500	9.4	220000	6.1
010000	168	051500	75	093000	35	134500	31	180000	9.4	221500	6.1
011500	161	053000	70	094500	35	140000	30	181500	9.4	223000	6.1
013000	151	054500	67	100000	33	141500	28	183000	9.4	224500	5.8
014500	145	060000	65	101500	31	143000	26	184500	8.7	230000	5.8
020000	139	061500	60	103000	30	144500	24	190000	8.7	231500	5.8
021500	133	063000	58	104500	31	150000	23	191500	8.7	233000	5.4
023000	128	064500	56	110000	46	151500	21	193000	8.1	234500	5.4
024500	122	070000	54	111500	46	153000	18	194500	8.1	240000	5.4
030000	117	071500	52	113000	43	154500	17	200000	7.5		
031500	112	073000	50	114500	41	160000	16	201500	7.5		
033000	107	074500	50	120000	39	161500	15	203000	7.5		
034500	105	080000	48	121500	39	163000	13	204500	7.0		
040000	100	081500	46	123000	37	164500	12	210000	7.0		
041500	93	083000	43	124500	35	170000	11	211500	6.5		

DATE: SEP. 17, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	0.46	043000	0.46	084500	0.46	130000	0.46	171500	0.46	213000	0.46
003000	0.46	044500	0.46	090000	0.46	131500	0.46	173000	0.46	214500	0.46
004500	0.46	050000	0.46	091500	0.46	133000	0.46	174500	0.46	220000	0.46
010000	0.46	051500	0.46	093000	0.46	134500	0.46	180000	0.46	221500	0.46
011500	0.46	053000	0.46	094500	0.46	140000	0.46	181500	0.46	223000	0.46
013000	0.46	054500	0.46	100000	0.46	141500	0.46	183000	0.46	224500	0.52
014500	0.46	060000	0.46	101500	0.46	143000	0.46	184500	0.46	230000	1.5
020000	0.46	061500	0.46	103000	0.46	144500	0.46	190000	0.46	231500	172
021500	0.46	063000	0.46	104500	0.46	150000	0.46	191500	0.46	233000	592
023000	0.46	064500	0.46	110000	0.46	151500	0.46	193000	0.46	234500	666
024500	0.46	070000	0.46	111500	0.46	153000	0.46	194500	0.46	240000	606
030000	0.46	071500	0.46	113000	0.46	154500	0.46	200000	0.46		
031500	0.46	073000	0.46	114500	0.46	160000	0.46	201500	0.46		
033000	0.46	074500	0.46	120000	0.46	161500	0.46	203000	0.46		
034500	0.46	080000	0.46	121500	0.46	163000	0.46	204500	0.46		
040000	0.46	081500	0.46	123000	0.46	164500	0.46	210000	0.46		
041500	0.46	083000	0.46	124500	0.46	170000	0.46	211500	0.46		

DATE: SEP. 18, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	475	043000	97	084500	9.4	130000	2.1	171500	0.87	213000	0.66
003000	340	044500	81	090000	8.7	131500	2.1	173000	0.87	214500	0.66
004500	249	050000	70	091500	7.5	133000	1.9	174500	0.79	220000	0.66
010000	195	051500	62	093000	6.5	134500	1.8	180000	0.79	221500	0.66
011500	151	053000	58	094500	6.1	140000	1.6	181500	0.79	223000	0.66
013000	186	054500	54	100000	5.4	141500	1.6	183000	0.79	224500	0.66
014500	199	060000	50	101500	5.1	143000	1.5	184500	0.72	230000	0.66
020000	197	061500	48	103000	4.8	144500	1.4	190000	0.72	231500	0.66
021500	199	063000	46	104500	4.5	150000	1.4	191500	0.72	233000	0.66
023000	209	064500	41	110000	4.0	151500	1.4	193000	0.72	234500	0.66
024500	222	070000	37	111500	3.7	153000	1.3	194500	0.72	240000	0.66
030000	227	071500	30	113000	3.5	154500	1.1	200000	0.72		
031500	225	073000	24	114500	3.2	160000	1.0	201500	0.72		
033000	207	074500	20	120000	3.0	161500	1.0	203000	0.66		
034500	179	080000	16	121500	2.7	163000	0.95	204500	0.66		
040000	139	081500	13	123000	2.5	164500	0.95	210000	0.66		
041500	114	083000	11	124500	2.3	170000	0.87	211500	0.66		

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT

LOCATION.--Lat 41°26'58", long 72°50'29", New Haven County, Hydrologic Unit 01100004, on right bank on Wilbur Cross Highway, 0.8 mi (1.3 km) downstream from bridge on Quinnipiac Street in Wallingford, and 2 mi (3 km) upstream from Wharton Brook.

DRAINAGE AREA.--110 mi² (285 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder and timber control. Datum of gage is 19.24 ft (5.864 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 27, 1965, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, Bradley Hubbard Reservoir (see p.237), and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merrimere and Elmore Reservoirs for municipal supply of Meriden. See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn.

AVERAGE DISCHARGE (adjusted for storage and diversion since October 1960).--50 years, 211 ft³/s (5.976 m³/s), 26.05 in/yr (662 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,230 ft³/s (148 m³/s) Sept. 21, 1938, gage height, 10.55 ft (3.216 m), present datum, by computation of peak discharge over dam 1 mi (2 km) upstream; minimum, 8 ft³/s (0.227 m³/s) Nov. 2, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft³/s (25.5 m³/s) and maximum (*).

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)
Oct. 3	1730	2,110	59.8	Apr. 11	0030	2,850	80.7
Mar. 11	0600	918	26.0	29	0330	1,010	28.6
18	0600	1,570	44.5	July 29	1630	1,420	40.2
22	1830	*2,890	81.8				
			*9.82				2.993

Minimum discharge, 13 ft³/s (0.368 m³/s) reg. July 19, 20, gage height, 0.41 ft (0.125 m); minimum daily, 26 ft³/s (0.74 m³/s) reg. July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	119	195	176	109	90	626	429	162	226	114	75
2	218	119	180	169	105	89	489	367	176	150	102	72
3	764	256	171	165	102	85	429	332	166	140	210	67
4	758	249	166	156	103	88	556	302	155	123	156	65
5	541	254	165	151	103	92	659	274	141	120	111	59
6	291	226	164	141	101	97	499	256	132	304	153	60
7	238	186	240	136	103	98	402	242	282	175	120	59
8	179	155	221	139	103	109	355	367	267	126	93	56
9	173	144	176	137	103	134	436	382	179	116	85	54
10	204	151	160	131	102	123	2770	289	164	109	78	53
11	229	192	157	166	100	618	2070	254	150	108	78	53
12	251	334	153	531	101	374	938	282	140	104	121	53
13	251	338	191	328	100	179	670	276	132	101	105	52
14	210	249	229	212	99	210	582	261	126	101	85	53
15	175	226	186	194	100	226	761	230	119	99	82	58
16	168	202	166	188	102	178	670	212	122	148	79	70
17	156	176	183	171	104	218	511	198	117	76	70	110
18	150	173	165	164	99	1150	447	197	109	46	69	165
19	141	166	146	171	104	689	420	207	107	27	71	113
20	192	161	134	165	106	361	391	199	106	26	93	71
21	140	156	135	153	109	729	374	302	105	68	80	58
22	131	151	135	147	117	2670	322	374	100	137	76	55
23	130	148	140	160	129	2160	302	249	100	180	71	56
24	141	144	150	148	140	1030	291	202	102	202	67	51
25	135	140	538	135	127	835	272	178	97	115	67	48
26	128	194	616	130	118	727	267	160	96	90	63	53
27	123	600	340	125	109	564	269	152	96	79	64	53
28	125	438	243	125	105	475	461	146	94	74	61	48
29	137	263	213	124	100	433	894	141	102	553	62	47
30	133	212	199	119	---	613	662	140	338	363	62	46
31	122	---	186	107	---	708	---	137	---	168	62	---
TOTAL	6859	6522	6443	5264	3103	16152	18795	7737	4282	4454	2810	1933
MEAN	221	217	208	170	107	521	627	250	143	144	90.6	64.4
MAX	764	600	616	531	140	2670	2770	429	338	553	210	165
MIN	122	119	134	107	99	85	267	137	94	26	61	46
(†)	+4.8	+1.2	+15.1	+2.9	-6.2	+11.3	+7.4	+2.3	-3.2	-7.7	-3.7	-8.6
MEAN‡	226	218	223	173	101	532	634	252	140	136	86.9	55.8
CFSM‡	2.05	1.98	2.03	1.57	0.92	4.84	5.76	2.29	1.27	1.24	0.79	0.51
IN‡	2.36	2.21	2.34	1.81	0.99	5.58	6.43	2.64	1.42	1.43	0.91	0.57

CAL YR 1979 TOTAL 121623 MEAN 333 MAX 4100 MIN 67 MEAN‡ 334 CFSM‡ 3.04 IN‡ 41.20
WTR YR 1980 TOTAL 84354 MEAN 230 MAX 2770 MIN 26 MEAN‡ 232 CFSM‡ 2.11 IN‡ 28.69

† Change in contents in Wolcott, Broad Brook, and Bradley Hubbard Reservoirs, diversion from Wolcott Reservoir, and diversion into the basin from Merrimere and Elmore Reservoirs, equivalent in cubic feet per second; records furnished by cities of New Britain and Meriden.

‡ Adjusted for diversion and change in contents.

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-54, 1957, 1968 to current year.

PERIOD OF DAILY RECORD. - -

SPECIFIC CONDUCTANCE: November 1969 to December 1970.

WATER TEMPERATURES: November 1969 to December 1970.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1956-57 are available in district office at Hartford, Conn.

EXTREMES FOR PERIOD OF RECORD. --

SPECIFIC CONDUCTANCE: Maximum recorded, 530 micromhos July 16, 1970; minimum recorded, 47 micromhos July 4, 1970.
WATER TEMPERATURES: Maximum, 31.0°C July 28, 1970; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS. PER 100 ML)
OCT 10...	1415	210	255	7.4	2.5	11.0	15	10	8.4	76	75000	--
NOV 16...	1230	210	260	6.8	4.5	8.0	20	6.0	9.4	79	42000	--
DEC 11...	1325	161	248	6.6	14.5	5.0	20	5.0	12.0	94	28000	--
JAN 15...	1530	196	235	6.9	9.5	5.0	5	8.0	11.8	92	46000	5100
FEB 15...	1320	103	345	7.3	3.0	4.5	10	4.0	--	--	28000	2700
MAR 24...	1145	1010	143	7.0	12.5	7.0	5	50	11.4	93	24000	4600
APR 15...	1400	1020	190	6.8	21.0	13.5	5	7.0	10.0	95	50000	8400
MAY 13...	1325	282	235	6.8	21.0	16.0	4	4.0	9.6	97	--	150
JUN 10...	1310	164	260	6.9	16.0	16.0	10	7.0	7.6	77	14000	840
JUL 11...	1400	110	265	6.9	30.0	24.0	6	4.0	6.8	80	18000	460
AUG 12...	1325	127	280	7.1	29.0	25.0	6	2.0	8.1	96	110000	19000
SEP 05...	1245	69	360	7.0	24.0	20.0	5	4.0	6.3	68	15000	500

[illegible]

QUINNIPIAC RIVER BASIN

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01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT 10...	156	.21	88.5	187	--	--	1.5	.68	.82	.72	1.4	2.9
NOV 16...	152	.21	86.2	175	1.4	.07	1.5	.72	.87	.38	1.1	2.6
DEC 11...	151	.21	65.6	174	1.5	.02	1.5	1.1	1.3	.40	1.5	3.0
JAN 15...	156	.21	82.6	147	--	--	1.4	.93	1.1	.27	1.2	2.6
FEB 15...	184	.25	51.2	197	2.1	.05	2.1	2.5	3.0	.20	2.7	4.8
MAR 24...	98	.13	267	103	1.1	.02	1.1	.22	.27	.98	1.2	2.3
APR 15...	110	.15	303	125	--	--	1.1	.29	.35	.68	.97	2.1
MAY 13...	151	.21	115	175	1.6	.13	1.7	.47	.57	.00	.45	2.2
JUN 10...	160	.22	70.8	186	1.7	.09	1.8	.84	1.0	.66	1.5	3.3
JUL 11...	190	.26	56.4	182	--	--	2.0	.41	.50	.59	1.0	3.0
AUG 12...	199	.27	68.2	194	1.8	.13	1.9	.64	.77	.66	1.3	3.2
SEP 05...	229	.31	42.7	234	1.5	.26	1.8	2.5	3.0	.00	2.1	3.9

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 10...	13	.370	1.1	--	--	--	--	17	190	--	--	200
NOV 16...	12	.300	.92	--	--	--	--	10	--	--	--	--
DEC 11...	13	.380	1.2	--	--	--	--	8	--	--	--	--
JAN 15...	12	.300	.92	--	--	--	--	9	170	--	--	180
FEB 15...	21	.730	2.2	--	--	--	--	13	--	--	--	--
MAR 24...	10	.230	.71	--	--	--	--	13	--	--	--	--
APR 15...	9.2	.170	.52	--	--	--	--	13	120	--	--	100
MAY 13...	9.5	.270	.83	--	--	--	--	11	--	--	--	--
JUN 10...	15	.410	1.3	--	--	--	--	7	--	--	--	--
JUL 11...	13	.420	1.3	100	0	1	1	7	80	10	0	230
AUG 12...	14	.630	1.9	--	--	--	--	9	--	--	--	--
SEP 05...	17	.840	2.6	--	--	--	--	13	--	--	--	--

QUINNIPIAC RIVER BASIN

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	--	--	--	30	4.5	.10	.000	.000
NOV 16...	--	--	--	20	5.9	--	--	--
DEC 11...	--	--	--	20	5.4	--	--	--
JAN 15...	--	--	--	30	5.6	.10	1.33	.000
FEB 15...	--	--	--	30	6.5	--	--	--
MAR 24...	--	--	--	40	3.9	--	--	--
APR 15...	--	--	--	50	8.8	.10	1.38	.000
MAY 13...	--	--	--	10	4.5	--	--	--
JUN 10...	--	--	--	20	5.5	--	--	--
JUL 11...	0	97	2.0	6	5.9	.10	40.5	8.74
AUG 12...	--	--	--	10	5.3	--	--	--
SEP 05...	--	--	--	10	9.4	--	--	--

QUINNIPIAC RIVER BASIN

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01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT

LOCATION.--Lat 41°23'24", long 72°52'19", New Haven County, Hydrologic Unit 01100004, at bridge on U.S. Highway 5, at North Haven, 2.3 mi (3.7 km) downstream from Wharton Brook and 0.9 mi (1.4 km) upstream from Watermans Brook.

DRAINAGE AREA.--128 mi² (332 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 10...	1300	300	7.4	3.0	12.0	15	15	3.8	35	95000	--	50000
NOV 16...	1050	300	6.9	4.0	8.0	15	7.0	8.5	71	25000	--	50000
DEC 11...	1215	320	6.6	12.5	6.0	10	5.0	13.2	106	26000	--	24000
JAN 15...	1410	300	6.8	9.5	5.0	5	7.0	11.0	86	42000	16000	--
FEB 15...	1210	380	7.3	2.0	5.0	10	5.0	--	--	42000	20000	--
MAR 24...	1045	155	7.1	11.5	6.0	10	15	11.2	90	36000	5700	--
APR 15...	1300	140	6.9	22.0	12.5	5	8.0	9.1	73	32000	5200	--
MAY 13...	1225	255	6.9	21.0	15.0	4	14	9.9	97	--	2300	--
JUN 10...	1210	295	6.9	18.5	15.0	10	5.0	5.2	51	60000	10000	--
JUL 11...	1300	300	6.9	27.0	23.0	6	4.0	4.0	46	16000	4300	--
AUG 12...	1235	320	7.0	29.0	24.0	5	1.0	4.2	49	64000	7500	--
SEP 05...	1130	420	6.9	23.0	21.0	5	4.0	3.0	33	12000	220	--

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 10...	4200	99	27	31	5.3	72	26	28	12	185	.25
NOV 16...	9500	--	--	--	--	--	--	25	--	178	.24
DEC 11...	580	--	--	--	--	--	--	25	--	180	.24
JAN 15...	5400	78	18	24	4.4	60	27	23	11	179	.24
FEB 15...	1700	--	--	--	--	--	--	32	--	217	.30
MAR 24...	500	--	--	--	--	--	--	14	--	92	.13
APR 15...	1100	62	21	19	3.6	41	18	15	8.6	118	.16
MAY 13...	96	--	--	--	--	--	--	21	--	170	.23
JUN 10...	560	--	--	--	--	--	--	23	--	177	.24
JUL 11...	320	91	19	28	5.2	72	24	28	11	196	.27
AUG 12...	640	--	--	--	--	--	--	27	--	208	.28
SEP 05...	150	--	--	--	--	--	--	36	--	254	.35

QUINNIPIAC RIVER BASIN

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 10...	226	--	--	1.8	1.1	1.3	2.8	3.9	5.7	25
NOV 16...	198	1.6	.07	1.7	1.2	1.5	2.2	3.4	5.1	23
DEC 11...	200	1.9	.03	1.9	2.0	2.4	2.5	4.5	6.4	28
JAN 15...	172	--	--	1.5	1.5	1.8	2.5	4.0	5.5	24
FEB 15...	220	2.2	.05	2.2	4.3	5.2	18	22	24	110
MAR 24...	94	.98	.02	1.0	.29	.35	.68	.97	2.0	8.7
APR 15...	173	--	--	1.3	.43	.52	.67	1.1	2.4	11
MAY 13...	191	1.7	.12	1.8	.83	1.0	1.1	1.9	3.7	16
JUN 10...	202	2.4	.14	2.5	1.7	2.1	1.8	3.5	6.0	27
JUL 11...	213	--	--	2.7	.97	1.2	2.6	3.6	6.3	28
AUG 12...	211	2.7	.11	2.8	1.2	1.5	1.6	2.8	5.6	25
SEP 05...	272	2.4	.24	2.6	2.5	3.0	2.8	5.3	7.9	35

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10...	.470	1.4	15	130	200	20	10	.20	.000	.000
NOV 16...	.460	1.4	11	--	--	20	8.1	--	--	--
DEC 11...	.600	1.8	8	--	--	20	8.1	--	--	--
JAN 15...	.410	1.3	9	150	160	30	8.8	.10	3.15	.000
FEB 15...	.800	2.5	14	--	--	20	14	--	--	--
MAR 24...	.260	.80	15	--	--	30	5.7	--	--	--
APR 15...	.170	.52	9	80	90	0	9.2	.10	2.14	.000
MAY 13...	.630	1.9	10	--	--	20	7.1	--	--	--
JUN 10...	.550	1.7	8	--	--	30	7.5	--	--	--
JUL 11...	.700	2.1	5	70	230	10	8.0	.10	28.0	6.40
AUG 12...	.700	2.1	8	--	--	10	10	--	--	--
SEP 05...	.920	2.8	9	--	--	10	11	--	--	--

QUINNIPIAC RIVER BASIN

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RESERVOIRS IN QUINNIPIAC RIVER BASIN

01195800 WOLCOTT RESERVOIR.--Lat 41°36'35", long 72°56'08", New Haven County, Conn., Hydrologic Unit 01100004, on Roaring Brook in Eightmile River basin, 2.1 mi (3.4 km) northeast of Wolcott. Drainage area, 2.45 mi² (6.35 km²). Completed in 1904 for storage of water for municipal supply of city of New Britain. Usable capacity, 22,700,000 ft³ (643,000 m³). Records available, September 1960 to current year. Records furnished by Board of Water Commissioners, New Britain, Conn.

01196225 BROAD BROOK RESERVOIR.--Lat 41°31'20", long 72°51'34", New Haven County, Conn., Hydrologic Unit 01100004, on Broad Brook in Quinnipiac River basin, 3 mi (5 km) southwest of Meriden. Drainage area, 4.85 mi² (12.56 km²). Completed in 1907 for storage of water for municipal supply of city of Meriden. Usable capacity, 134,000,000 ft³ (3.79 hm³). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

01196240 BRADLEY HUBBARD RESERVOIR.--Lat 41°33'24", long 72°45'47", New Haven County, Conn., Hydrologic Unit 01100004, on Harbor Brook in Quinnipiac River basin, 2 mi (3 km) northeast of Meriden. Drainage area, 0.59 mi² (1.53 km²). Completed in 1894 and now used for storage of water for municipal supply of city of Meriden. Usable capacity, 22,500,000 ft³ (637,000 m³). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	01195800 WOLCOTT RESERVOIR	01196225 BROAD BROOK RESERVOIR	01196240 BRADLEY HUBBARD RESERVOIR
Sept. 30, 1979.....	12.1	110	22.5
Oct. 31.....	9.4	110	22.5
Nov. 30.....	10.8	97.6	22.5
Dec. 31.....	5.7	128	22.5
Jan. 31, 1980.....	5.4	134	22.5
Feb. 29.....	3.1	122	22.5
Mar. 31.....	22.7	134	22.5
Apr. 30.....	23.3	134	22.5
May 31.....	19.2	134	22.5
June 30.....	11.7	128	22.5
July 31.....	2.2	122	22.5
Aug. 31.....	3.1	122	22.5
Sept. 30.....	3.6	110	22.5

MILL RIVER BASIN

01196620 MILL RIVER NEAR HAMDEN, CT

LOCATION.--Lat 41°25'15", long 72°54'12", New Haven County, Hydrologic Unit 01100004, 150 ft (46 m) downstream bridge on Mount Carmel Avenue, 0.4 mi (0.6 km) downstream from Eatons Brook, and 2.5 mi (4.0 km) north of Hamden.

DRAINAGE AREA.--24.5 mi² (63.5 km²).

PERIOD OF RECORD.--October 1968 to September 1970, October 1978 to September 1980.

GAGE.--Water-stage recorder. Datum of gage is 82.57 ft (25.17 m) National Geodetic Vertical Datum of 1929. October 1, 1968 to September 30, 1970, 150 ft (46 m) upstream at datum 0.73 ft (0.22 m) higher.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s (90.1 m³/s) Jan. 25, 1979, gage height, 5.65 ft (1.722 m); minimum, 3.7 ft³/s (0.105 m³/s) Aug. 8-10, 1979, gage height, 1.16 ft (0.354 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft³/s (36.8 m³/s) Mar. 22, gage height, 3.82 ft (1.164 m); minimum, 5.5 ft³/s (0.156 m³/s) Sept. 11-14, gage height, 1.18 ft (0.360 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	30	35	20	12	125	87	29	44	14	6.0
2	24	12	29	33	20	9.3	97	75	29	22	11	6.0
3	68	56	27	32	19	8.1	85	66	35	18	22	6.0
4	92	58	26	29	19	8.1	135	60	27	14	21	6.0
5	37	29	26	29	18	6.6	129	56	20	14	14	6.0
6	30	22	26	26	18	7.1	92	53	17	51	17	5.8
7	23	20	49	24	18	7.6	80	51	56	22	21	5.8
8	18	18	33	26	17	11	73	80	46	14	14	5.8
9	17	17	26	24	17	17	122	73	30	12	13	5.8
10	27	21	24	22	17	18	1380	53	27	11	10	5.8
11	33	29	24	33	14	159	354	49	22	11	9.0	5.5
12	37	87	23	145	14	53	198	53	18	9.3	11	5.5
13	53	51	35	66	14	27	152	53	17	8.1	9.6	5.5
14	32	37	44	44	14	42	138	46	16	7.6	9.6	5.8
15	24	30	30	42	14	42	180	39	15	7.6	11	7.4
16	21	26	27	37	15	32	125	35	14	7.1	8.4	6.8
17	18	24	30	33	16	49	105	32	14	7.1	7.6	6.2
18	17	23	23	33	14	380	94	33	13	6.6	7.2	24
19	16	22	21	39	14	138	89	39	12	6.6	8.0	14
20	15	22	20	33	14	89	85	33	12	6.2	8.0	8.7
21	14	21	20	30	16	285	82	66	11	6.6	8.0	7.6
22	14	21	21	29	17	1130	73	78	11	13	7.6	6.6
23	13	21	24	35	20	600	68	51	9.9	18	6.8	6.2
24	13	20	26	29	21	260	64	41	9.3	12	6.0	6.6
25	13	20	170	23	21	240	60	33	9.3	8.1	7.6	5.7
26	12	66	97	23	17	152	58	29	8.7	6.6	6.4	6.6
27	11	129	68	22	14	116	60	26	8.1	6.2	6.8	6.2
28	12	62	53	22	14	100	111	24	7.6	5.7	6.5	5.7
29	14	41	46	22	12	97	212	23	9.9	138	6.5	5.7
30	14	33	42	21	---	138	116	22	71	100	6.6	5.7
31	12	---	39	21	---	135	---	22	---	29	6.2	---
TOTAL	755	1050	1179	1062	478	4368.8	4742	1481	624.8	642.4	321.4	211.0
MEAN	24.4	35.0	38.0	34.3	16.5	141	158	47.8	20.8	20.7	10.4	7.03
MAX	92	129	170	145	21	1130	1380	87	71	138	22	24
MIN	11	12	20	21	12	6.6	58	22	7.6	5.7	6.0	5.5
CFSM	1.00	1.43	1.55	1.40	.67	5.76	6.45	1.95	.85	.85	.42	.29
IN.	1.15	1.59	1.79	1.61	.73	6.63	7.20	2.25	.95	.98	.49	.32

CAL YR 1979 TOTAL 25030.3 MEAN 68.6 MAX 1860 MIN 3.8 CFSM 2.80 IN 38.00
WTR YR 1980 TOTAL 16915.4 MEAN 46.2 MAX 1380 MIN 5.5 CFSM 1.89 IN 25.68

LONG ISLAND SOUND

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01196656 NEW HAVEN HARBOR NEAR NEW HAVEN, CT

LOCATION.--Lat 41°16'11", long 72°54'44", New Haven County, Hydrologic Unit 01100007, in main channel between Sandy Point and Black Rock, 0.4 mi (0.6 km) west of coast guard station, at buoy, can "15," 1.6 mi (2.6 km) downstream from West River, 2.1 mi (3.4 km) downstream from Quinnipiac River and 2.2 (3.5 km) downstream from Mill River.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	SALIN- ITY (PPT)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
NOV 16...	0915	3.0	31000	7.8	19.0	5.0	11.0	5	6.0	9.4	85	44
FEB 15...	1000	3.0	23000	7.8	24.0	2.5	1.5	5	3.0	9.5	68	120
APR 18...	1410	3.0	26500	8.0	28.0	15.5	8.0	5	5.0	13.2	111	19
AUG 15...	0915	3.0	40000	7.6	26.0	24.0	23.0	5	2.0	5.4	62	3700

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINIT (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 16...	--	K4	K9	--	--	--	--	--	--	--	--	15000
FEB 15...	K4	--	19	5400	5300	170	1200	--	--	98	2000	15000
APR 18...	K7	--	<1	1800	1800	260	290	--	--	90	1700	13000
AUG 15...	720	--	K12	4200	--	240	870	10000	67	100	--	14000

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
NOV 16...	--	29500	40.1	30800	.04	.09	.13	.22	.27	.05	.27	.40
FEB 15...	1.1	28600	38.9	33900	--	--	.17	.20	.24	.04	.24	.41
APR 18...	.2	27700	37.7	30200	--	--	.03	.01	.01	.34	.35	.38
AUG 15...	--	30700	41.8	32300	.03	.01	.04	.32	.39	.02	.34	.38

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-H PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 16...	1.8	.110	.34	5	--	--	30	4.1	--	--	--
FEB 15...	1.8	.120	.37	3	160	40	20	2.1	.90	.880	.000
APR 18...	1.7	.090	.28	4	120	40	20	3.1	1.2	11.6	.000
AUG 15...	1.7	.220	.67	4	0	100	30	4.2	.70	33.8	.000

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, Hydrologic Unit 01100005, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1913 to current year.

REVISED RECORDS.--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M).

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft (208.191 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

REMARKS.--Records good. Regulation at low flow by powerplants upstream. High flow slightly affected by retarding reservoir since 1973. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--67 years, 529 ft³/s (14.98 m³/s), 25.66 in/yr (652 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 1, 1949, gage height, 12.08 ft (3.682 m), from rating curve extended above 6,400 ft³/s (180 m³/s) on basis of computations of flow over dams at gage heights 11.72 ft (3.572 m) and 12.08 ft (3.682 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 18, 1914.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68 m³/s) and maximum (*):

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. 23	0200	*4520 128	8.32 2.536	Apr. 11	1345	3390 96.0	7.24 2.207

Minimum daily discharge, 81 ft³/s (2.29 m³/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	674	363	705	445	150	120	1360	744	189	593	136	111
2	1490	316	612	420	155	130	1120	587	183	383	134	115
3	1550	510	522	404	145	125	1020	522	213	273	200	108
4	1760	858	477	350	140	130	1070	456	253	227	176	108
5	1590	712	467	329	140	129	1360	373	250	193	158	102
6	1260	581	461	290	140	136	1310	373	227	189	147	119
7	1110	445	545	273	139	144	1040	420	217	180	155	113
8	1010	399	575	286	140	213	930	461	227	173	139	98
9	908	388	505	270	140	409	952	456	220	196	122	92
10	997	415	440	250	140	325	2260	440	246	193	81	91
11	952	522	415	253	135	451	3250	440	253	176	111	92
12	879	545	404	430	131	425	2620	393	231	193	139	92
13	894	522	393	456	126	294	1990	461	203	220	136	92
14	872	510	388	383	134	246	1650	656	186	186	129	92
15	744	516	363	353	135	217	1490	624	176	167	129	96
16	624	488	343	334	149	190	1420	505	186	155	126	164
17	581	456	477	316	140	206	1220	430	220	147	113	124
18	488	425	500	307	140	1270	1020	383	186	139	104	131
19	499	404	400	307	140	1770	908	425	170	131	106	139
20	510	393	360	298	140	1160	830	430	161	126	106	144
21	477	383	340	273	141	1050	783	409	161	155	108	136
22	451	373	334	261	147	3490	731	451	158	176	108	131
23	445	358	325	257	149	4060	680	404	149	186	108	117
24	445	348	353	225	149	2500	637	368	141	183	104	102
25	477	348	662	210	152	1840	605	298	141	167	100	106
26	461	440	1190	210	149	1520	593	250	139	147	96	119
27	451	1260	1030	203	144	1210	545	139	139	134	98	149
28	440	1500	718	189	145	1040	551	210	136	124	100	155
29	430	1160	618	189	145	1060	693	210	155	122	100	170
30	420	851	569	165	---	1350	817	200	581	129	102	147
31	399	---	510	160	---	1540	---	196	---	136	102	---
TOTAL	24288	16789	16001	9096	4120	28750	35455	12714	6097	5899	3773	3555
MEAN	783	560	516	293	142	927	1182	410	203	190	122	119
MAX	1760	1500	1190	456	155	4060	3250	744	581	593	200	170
MIN	399	316	325	160	126	120	545	139	136	122	81	91
CFSM	2.80	2.00	1.84	1.05	.51	3.31	4.22	1.46	.73	.68	.44	.43
IN.	3.23	2.23	2.13	1.21	.55	3.82	4.71	1.69	.81	.78	.50	.47

CAL YR 1979	TOTAL	273973	MEAN	751	MAX	6500	MIN	123	CFSM	2.68	IN	36.40
WTR YR 1980	TOTAL	166537	MEAN	455	MAX	4060	MIN	81	CFSM	1.63	IN	22.13

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

WATER-QUALITY RECORDS

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, Hydrologic Unit 01100005, on left bank at upstream side of highway 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.

Water-quality records: Water years 1957-59, 1963-64, 1971, April 1979 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE.--April 1979 to September 1980 (discontinued).

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE.--April 1978 to June 1980 (discontinued).

REVISED RECORDS.--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M).

1917-27(M), 1929-31(M).

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft (208.191 m) National Geodetic Vertical Datum of 1929.

Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

REMARKS.--Daily discharge records are maintained by the New England District. Records fair to good during periods of low and normal flows, fair during high flows. Data estimated during periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 148 mg/L April 10, 1980; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 955 tons (866 Mg) March 22, 1980; minimum daily, 0.38 ton (0.34 Mg) February 4-5, 1980.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 148 mg/L April 10; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 955 tons (866 Mg) March 22; minimum daily, 0.38 ton (0.34 Mg) February 4-5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

DATE	TIME	AROCOLOR DISSOLVED 1016 PCB SERIES (UG/L)	AROCOLOR TOTAL 1016 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1221 PCB SERIES (UG/L)	AROCOLOR TOTAL 1221 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1232 PCB SERIES (UG/L)	AROCOLOR TOTAL 1232 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1242 PCB SERIES (UG/L)
OCT 04...	1630	--	0.0	--	0.0	--	0.0	--
NOV 27...	1100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAR 18...	0900	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1215	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1330	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1515	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22...	0700	0.0	0.0	0.0	0.0	0.0	0.0	0.0
APR 04...	1330	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	0830	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1455	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JUN 30...	1200	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	AROCOLOR TOTAL 1242 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1248 PCB SERIES (UG/L)	AROCOLOR TOTAL 1248 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1254 PCB SERIES (UG/L)	AROCOLOR TOTAL 1254 PCB SERIES (UG/L)	AROCOLOR DISSOLVED 1260 PCB SERIES (UG/L)	AROCOLOR TOTAL 1260 PCB SERIES (UG/L)
OCT 04...	0.0	--	0.3	--	0.0	--	0.2
NOV 27...	0.0	0.0	0.1	0.0	0.1	0.0	0.0
MAR 18...	0.0	0.0	0.1	0.0	0.0	0.0	0.1
18...	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18...	0.0	0.0	0.1	0.0	0.0	0.0	0.1
18...	0.0	0.0	0.1	0.0	0.0	0.0	0.1
18...	0.0	0.1	0.1	0.0	0.0	0.0	0.2
18...	0.0	0.0	0.1	0.0	0.0	0.1	0.3
22...	0.0	0.1	0.2	0.0	0.0	0.1	0.4
APR 04...	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10...	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10...	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10...	0.0	0.0	0.0	0.0	0.0	0.1	0.1
JUN 30...	0.0	0.0	0.2	0.0	0.0	0.1	0.2

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 27...	1100	1280	22	76	95	APR 04...	1330	1060	20	57	63
MAR 18...	0900	1000	63	170	78	10...	1145	2410	124	807	86
18...	1515	1820	76	373	74	JUN 30...	1200	631	18	31	97
22...	0655	2980	226	1820	72						

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT. IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
JUN 26...	1430	0-6	24	20	44	960	100	0
26...	1435	0-6	4.0	23	27	330	0	100

HOUSATONIC RIVER BASIN

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01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	1290	10	35	1230	12	40	1040	11	31
2	1330	7	25	975	11	29	858	9	21
3	1370	5	18	837	9	20	750	8	16
4	1300	5	18	865	12	28	674	7	13
5	1250	5	17	887	12	29	618	7	12
6	1230	4	13	790	11	23	618	7	12
7	1110	3	9.0	705	10	19	563	6	9.1
8	960	4	10	650	10	18	510	5	6.9
9	908	4	9.8	612	9	15	472	5	6.4
10	960	4	10	587	8	13	440	7	8.3
11	952	4	10	551	7	10	425	7	8.0
12	960	5	13	522	7	9.9	551	10	15
13	960	4	10	569	10	15	527	6	8.5
14	1030	5	14	712	12	23	445	4	4.8
15	1180	5	16	718	10	19	383	4	4.1
16	1210	5	16	618	8	13	353	6	5.7
17	1320	6	21	505	7	9.5	325	8	7.0
18	1290	5	17	467	6	7.6	302	7	5.7
19	1100	5	15	461	6	7.5	273	7	5.2
20	960	5	13	435	6	7.0	253	8	5.5
21	872	6	14	404	5	5.5	235	9	5.7
22	796	6	13	368	5	5.0	224	8	4.8
23	724	6	12	348	5	4.7	217	9	5.3
24	674	6	11	605	18	37	210	9	5.1
25	631	6	10	2020	61	336	200	10	5.4
26	624	6	10	3040	61	494	193	11	5.7
27	744	11	22	2830	35	267	186	12	6.0
28	990	14	37	2090	19	107	180	12	5.8
29	1350	15	55	1670	14	63	173	12	5.6
30	1450	14	55	1430	11	42	170	11	5.0
31	---	---	---	1230	11	37	---	---	---
TOTAL	31525	---	548.8	29731	---	1753.7	12368	---	259.6
JULY				AUGUST			SEPTEMBER		
1	173	10	4.7	164	8	3.5	242	7	4.6
2	261	13	9.2	167	10	4.5	214	7	4.0
3	302	13	11	173	12	5.6	200	8	4.3
4	235	11	7.0	160	12	5.2	223	11	7.5
5	203	11	6.0	165	15	6.7	345	14	13
6	186	11	5.5	143	12	4.6	533	21	44
7	170	11	5.0	123	13	4.3	1600	33	143
8	164	9	4.0	128	13	4.5	1580	11	48
9	161	10	4.3	126	12	4.1	888	5	12
10	155	10	4.2	127	11	3.8	549	4	5.9
11	152	10	4.1	140	8	3.0	392	4	4.2
12	147	10	4.0	161	6	2.6	352	4	3.8
13	144	10	3.9	329	20	21	280	4	3.0
14	141	10	3.8	392	13	14	293	3	2.4
15	139	12	4.5	249	12	8.1	301	2	1.6
16	139	13	4.9	216	11	6.4	392	1	1.1
17	316	14	12	197	10	5.3	351	1	.95
18	353	14	13	175	6	2.8	272	1	.73
19	318	11	9.4	220	12	7.1	285	2	1.5
20	244	11	7.2	225	14	8.5	348	3	2.8
21	205	11	6.1	170	12	5.5	315	2	1.7
22	287	12	9.3	176	12	5.7	771	2	4.2
23	326	12	11	176	12	5.7	1110	2	6.0
24	235	12	7.6	163	11	4.8	840	2	4.5
25	196	12	6.4	169	11	5.0	628	1	1.7
26	179	12	5.8	184	11	5.5	525	1	1.4
27	268	14	10	258	11	7.7	479	1	1.3
28	309	14	12	261	12	8.5	419	1	1.1
29	227	12	7.4	154	7	2.9	534	3	4.3
30	192	11	5.7	224	9	5.4	664	2	3.6
31	176	9	4.3	271	8	5.9	---	---	---
TOTAL	6703	---	213.3	5986	---	188.2	15925	---	338.18

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	674	2	4.4	363	1	.98	705	4	7.6
2	1490	8	33	316	2	1.7	612	4	6.6
3	1550	13	54	510	2	2.8	522	5	7.0
4	1760	19	90	858	2	4.6	477	6	7.7
5	1590	15	64	712	2	3.8	467	6	7.6
6	1260	7	24	581	3	4.7	461	5	6.2
7	1110	6	18	445	3	3.6	545	4	5.9
8	1010	5	14	399	3	3.2	575	4	6.2
9	908	5	12	388	3	3.1	505	3	4.1
10	997	5	13	415	8	9.0	440	4	4.8
11	952	5	13	522	8	11	415	2	2.2
12	879	4	9.5	545	9	13	404	2	2.2
13	894	3	7.2	522	8	11	393	2	2.1
14	872	3	7.1	510	5	6.9	388	4	4.2
15	744	2	4.0	516	4	5.6	363	4	3.9
16	624	1	1.7	488	4	5.3	343	4	3.7
17	581	1	1.6	456	4	4.9	477	6	7.7
18	488	4	5.3	425	4	4.6	500	4	5.4
19	499	7	9.4	404	4	4.4	400	3	3.2
20	510	7	9.6	393	4	4.2	360	3	2.9
21	477	5	6.4	383	4	4.1	340	3	2.8
22	451	5	6.1	373	4	4.0	334	3	2.7
23	445	5	6.0	358	4	3.9	325	3	2.6
24	445	4	4.8	348	3	2.8	353	6	5.7
25	477	4	5.2	348	4	3.8	662	8	18
26	461	4	5.0	440	12	17	1190	40	129
27	451	4	4.9	1260	21	70	1030	59	164
28	440	4	4.8	1500	6	24	718	6	12
29	430	4	4.6	1160	5	16	618	3	5.0
30	420	3	3.4	851	5	11	569	1	1.5
31	399	1	1.1	---	---	---	510	1	1.4
TOTAL	24288	---	447.1	16789	---	264.98	16001	---	445.9
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY				FEBRUARY			MARCH		
1	445	1	1.2	150	1	.41	120	8	2.6
2	420	1	1.1	155	1	.42	130	8	2.8
3	404	1	1.1	145	1	.39	125	8	2.7
4	350	1	.95	140	1	.38	130	8	2.8
5	329	1	.89	140	1	.38	129	8	2.8
6	290	2	1.6	140	5	1.9	136	8	2.9
7	273	8	5.9	139	5	1.9	144	9	3.5
8	286	8	6.2	140	6	2.3	213	9	5.2
9	270	8	5.8	140	6	2.3	409	9	9.9
10	250	6	4.1	140	5	1.9	325	8	7.0
11	253	6	4.1	135	5	1.8	451	9	11
12	430	6	7.0	131	7	2.5	425	9	10
13	456	6	7.4	126	7	2.4	294	7	5.6
14	383	5	5.2	134	7	2.5	246	5	3.3
15	353	4	3.8	135	5	1.8	217	4	2.3
16	334	4	3.6	149	5	2.0	190	4	2.1
17	316	4	3.4	140	5	1.9	206	6	3.3
18	307	5	4.1	140	5	1.9	1270	109	421
19	307	5	4.1	140	4	1.5	1770	94	462
20	298	6	4.8	140	4	1.5	1160	47	147
21	273	6	4.4	141	4	1.5	1050	43	137
22	261	6	4.2	147	4	1.6	3490	113	955
23	257	6	4.2	149	5	2.0	4060	35	384
24	225	5	3.0	149	5	2.0	2500	30	202
25	210	4	2.3	152	5	2.1	1840	28	139
26	210	4	2.3	149	5	2.0	1520	23	94
27	203	4	2.2	144	3	1.2	1210	18	59
28	189	2	1.0	145	2	.78	1040	17	48
29	189	2	1.0	145	8	3.1	1060	17	49
30	165	1	.45	---	---	---	1350	32	121
31	160	1	.43	---	---	---	1540	24	100
TOTAL	9096	---	101.82	4120	---	48.36	28750	---	3397.8

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1360	13	48	744	8	16	189	6	3.1
2	1120	11	33	587	8	13	183	6	3.0
3	1020	10	28	522	8	11	213	9	5.2
4	1070	16	49	456	8	9.8	253	9	6.1
5	1360	14	51	373	8	8.1	250	7	4.7
6	1310	10	35	373	8	8.1	227	7	4.3
7	1040	8	22	420	10	11	217	6	3.5
8	930	7	18	461	13	16	227	6	3.7
9	952	42	115	456	12	15	220	6	3.6
10	2260	148	846	440	12	14	246	12	8.0
11	3250	12	105	440	10	12	253	12	8.2
12	2620	12	85	393	8	8.5	231	10	6.2
13	1990	12	64	461	8	10	203	8	4.4
14	1650	12	53	656	11	19	186	6	3.0
15	1490	12	48	624	10	17	176	6	2.9
16	1420	12	46	505	8	11	186	14	7.0
17	1220	12	40	430	8	9.3	220	14	8.3
18	1020	12	33	383	10	10	186	12	6.0
19	908	12	29	425	10	11	170	9	4.1
20	830	12	27	430	10	12	161	8	3.5
21	783	10	21	409	8	8.8	161	8	3.5
22	731	10	20	451	6	7.3	158	8	3.4
23	680	10	18	404	5	5.5	149	8	3.2
24	637	9	15	368	5	5.0	141	8	3.0
25	605	8	13	298	7	5.6	141	8	3.0
26	593	8	13	250	5	3.4	139	8	3.0
27	545	8	12	139	7	2.6	139	7	2.6
28	551	11	16	210	7	4.0	136	7	2.6
29	693	15	28	210	6	3.4	155	9	3.8
30	817	12	26	200	6	3.2	581	18	29
31	---	---	---	196	6	3.2	---	---	---
TOTAL	35455	---	1957	12714	---	293.8	6097	---	155.9
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	593	19	30	136	8	2.9	111	7	2.1
2	383	16	17	134	7	2.5	115	7	2.2
3	273	13	9.6	200	10	5.4	108	7	2.0
4	227	10	6.1	176	6	2.9	108	7	2.0
5	193	9	4.7	158	6	2.6	102	7	1.9
6	189	8	4.1	147	6	2.4	119	7	2.2
7	180	8	3.9	155	7	2.9	113	7	2.1
8	173	7	3.3	139	8	3.0	98	7	1.9
9	196	9	4.8	122	8	2.6	92	7	1.7
10	193	8	4.2	81	8	1.7	91	7	1.7
11	176	8	3.8	111	8	2.4	92	7	1.7
12	193	8	4.2	139	8	3.0	92	6	1.5
13	220	11	6.5	136	8	2.9	92	6	1.5
14	186	9	4.5	129	8	2.8	92	5	1.2
15	167	7	3.2	129	8	2.8	96	5	1.3
16	155	7	2.9	126	8	2.7	164	12	5.3
17	147	6	2.4	113	8	2.4	124	9	3.0
18	139	6	2.3	104	8	2.2	131	8	2.8
19	131	5	1.8	106	8	2.3	139	8	3.0
20	126	5	1.7	106	8	2.3	144	9	3.5
21	155	7	2.9	108	8	2.3	136	8	2.9
22	176	8	3.8	108	7	2.0	131	8	2.8
23	186	8	4.0	108	7	2.0	117	8	2.5
24	183	8	4.0	104	7	2.0	102	7	1.9
25	167	8	3.6	100	7	1.9	106	8	2.3
26	147	8	3.2	96	7	1.8	119	8	2.6
27	134	8	2.9	98	7	1.9	149	7	2.8
28	124	8	2.7	100	7	1.9	155	6	2.5
29	122	8	2.6	100	7	1.9	170	5	2.3
30	129	10	3.5	102	7	1.9	147	6	2.4
31	136	9	3.3	102	7	1.9	---	---	---
TOTAL	5899	---	157.5	3773	---	76.2	3555	---	69.6
YEAR	166537		7415.96						

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT

LOCATION.--Lat 42°00'17", long 73°21'27", Litchfield County, Hydrologic Unit 01100005, at bridge on U.S. Highway 44, 2 mi (3 km) southwest of Canaan, 2.5 mi (4.0 km) downstream from Blackberry River, 2.8 mi (4.5 km) upstream from Hollenbeck River, and 3.7 mi (6.0 km) upstream from Falls Village Dam.

DRAINAGE AREA.--586 mi² (1,518 km²).

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

REMARKS.--Discharges shown for this station are computed by determining the discharge for station 01199000, 4.2 mi (6.7 km) downstream, and adjusting its discharge by multiplying by a factor of 0.92, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1040	1630	216	7.4	6.0	9.0	15	5.0	11.4	98	18000	--
NOV												
14...	1110	1440	250	6.9	5.0	7.0	10	5.0	12.2	100	380	--
DEC												
12...	1040	1500	270	6.9	15.0	4.5	10	4.0	12.9	99	3200	--
JAN												
16...	1135	1500	265	7.3	3.5	1.5	5	4.0	13.1	94	440	44
FEB												
13...	1105	212	350	7.7	-2.0	.5	5	2.0	10.4	73	68	35
MAR												
19...	1120	3550	225	7.2	6.0	2.0	30	40	13.1	99	1500	900
APR												
16...	1135	2790	195	7.2	6.0	9.0	0	9.0	11.1	96	6000	130
MAY												
14...	1040	1460	250	7.8	18.5	14.5	6	2.0	10.4	101	2200	130
JUN												
11...	1040	1470	290	7.4	14.0	14.0	5	4.0	9.4	90	920	180
JUL												
09...	1020	994	265	8.4	22.0	20.0	7	4.0	12.8	139	480	76
AUG												
13...	1000	112	325	7.3	22.5	22.0	5	1.0	5.2	59	14000	210
SEP												
03...	1010	164	390	7.6	23.0	22.0	5	2.0	8.4	95	880	300

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	--	290	99	18	26	8.2	81	9.9	10	4.6	128	.17
NOV												
14...	96	K12	--	--	--	--	--	--	11	--	131	.18
DEC												
12...	45	K12	--	--	--	--	--	--	10	--	140	.19
JAN												
16...	--	25	110	--	28	9.7	95	16	12	4.1	153	.21
FEB												
13...	--	K4	--	--	--	--	--	--	19	--	195	.27
MAR												
19...	--	16000	--	--	--	--	--	--	22	--	113	.15
APR												
16...	--	76	85	12	22	7.2	73	11	9.5	3.5	105	.14
MAY												
14...	--	K16	--	--	--	--	--	--	11	--	152	.21
JUN												
11...	--	24	--	--	--	--	--	--	17	--	173	.24
JUL												
09...	--	54	120	10	30	11	110	12	15	1.0	164	.22
AUG												
13...	--	76	--	--	--	--	--	--	17	--	188	.26
SEP												
03...	--	120	--	--	--	--	--	--	24	--	217	.30

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

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01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 12...	563	143	--	--	.34	.01	.01	.63	.64	.98	4.3
NOV 14...	509	147	.34	.00	.34	.00	.00	.40	.40	.74	3.3
DEC 12...	567	160	.47	.01	.48	.03	.04	.19	.22	.70	3.1
JAN 16...	620	156	.54	.01	.55	.04	.05	.28	.32	.87	3.9
FEB 13...	112	197	1.1	.02	1.1	.07	.08	.49	.56	1.7	7.3
MAR 19...	1080	113	.60	.02	.62	.25	.30	.85	1.1	1.7	7.6
APR 16...	791	171	--	--	.38	.00	.00	.22	.22	.60	2.7
MAY 14...	599	156	.35	.01	.36	.07	.08	.10	.17	.53	2.3
JUN 11...	687	181	.81	.05	.86	.10	.12	.52	.62	1.5	6.6
JUL 09...	440	164	--	--	.25	.28	.34	.59	.87	1.1	5.0
AUG 13...	56.9	196	.55	.04	.59	.12	.15	.31	.43	1.0	4.5
SEP 03...	96.1	222	.54	.01	.55	.06	.07	.58	.64	1.2	5.3

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	.040	.12	3	70	20	2	5.9	.00	.000	.000
NOV 14...	.050	.15	4	--	--	10	5.4	--	--	--
DEC 12...	.050	.15	3	--	--	0	2.2	--	--	--
JAN 16...	.050	.15	3	70	40	10	4.2	.00	.000	.000
FEB 13...	.140	.43	5	--	--	10	2.8	--	--	--
MAR 19...	.140	.43	4	--	--	20	6.1	--	--	--
APR 16...	.070	.21	2	40	20	7	3.5	.10	2.95	.000
MAY 14...	.080	.25	2	--	--	0	2.8	--	--	--
JUN 11...	.080	.25	2	--	--	0	4.3	--	--	--
JUL 09...	.080	.25	3	40	7	0	4.0	.00	121	6.23
AUG 13...	.090	.28	4	--	--	0	4.2	--	--	--
SEP 03...	.100	.31	3	--	--	0	5.6	--	--	--

HOUSATONIC RIVER BASIN

01198990 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CT

LOCATION.--Lat 41°57'45", long 73°22'18", Litchfield County, Hydrologic Unit 01100005, on Housatonic River at Great Falls, 0.4 mi (0.6 km) upstream from hydroelectric plant of Hartford Electric Light Company and gaging station at Falls Village, 0.9 mi (1.4 km) downstream from Hollenbeck River and 2.0 mi (3.2 km) upstream from Salmon Creek.

DRAINAGE AREA.--633 mi² (1,640 km²).

PERIOD OF RECORD.--Water years 1921, 1956 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to current year.

REMARKS.--Several days have no records because of missing readings.

COOPERATION.--Records were furnished by the Hartford Electric Light Company.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 27.0°C June 20, 1957, July 21-22, 1980; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 27.0°C July 21-22; minimum daily, 0.0°C on many days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	7.0	2.0	1.5	.0	.0	5.0	10.0	19.0	19.0	23.0	23.0
2	15.0	7.0	2.0	1.0	.0	.0	5.0	11.0	19.0	20.0	23.0	23.0
3	15.0	7.0	2.0	1.0	.0	.0	4.0	12.0	20.0	20.0	23.0	23.0
4	15.0	7.0	1.0	1.0	.0	.0	4.0	14.0	20.0	20.0	23.0	22.0
5	15.0	7.0	2.0	.0	.0	.0	5.0	15.0	20.0	20.0	24.0	22.0
6	14.0	6.5	2.0	.0	.0	.0	5.0	15.5	19.0	21.0	25.0	22.0
7	13.0	7.0	3.5	.0	.0	.0	6.0	15.0	19.0	21.0	25.0	21.0
8	12.0	7.0	3.0	.0	.0	.0	7.0	15.0	18.0	21.5	25.0	20.0
9	11.0	7.0	2.5	.0	.0	.0	7.0	14.0	17.0	21.5	26.0	20.0
10	10.0	7.5	2.0	.0	.0	.0	7.5	14.0	15.0	22.0	26.0	20.0
11	8.5	7.5	2.5	.0	.0	.0	8.0	14.0	15.0	22.0	26.0	20.0
12	8.0	8.0	3.5	.0	.0	.5	9.5	13.5	14.0	22.0	25.0	19.5
13	8.0	8.0	5.0	.0	.0	.5	9.0	14.0	15.0	22.0	24.0	19.5
14	8.0	7.0	3.0	.0	.0	.0	9.0	15.0	17.0	22.0	23.0	19.0
15	8.0	6.0	3.0	1.5	.0	.0	9.0	15.0	19.0	22.0	25.0	19.0
16	8.0	4.0	2.5	1.5	.0	.5	9.0	14.0	19.5	24.0	25.0	18.0
17	9.0	5.0	2.0	1.0	.0	1.0	7.0	15.0	19.0	25.0	22.0	18.0
18	10.0	5.0	.0	2.0	.0	3.0	7.0	15.0	19.5	25.0	21.0	18.0
19	10.0	5.0	.0	2.0	.0	1.0	8.0	15.0	20.0	26.0	21.0	17.0
20	12.0	5.5	.0	2.0	.0	2.0	9.0	15.0	20.0	26.0	20.0	17.0
21	14.0	6.0	.0	1.5	.0	4.0	10.0	15.5	20.0	27.0	20.0	18.0
22	15.0	8.0	.0	.5	.0	3.0	10.0	15.5	19.0	27.0	20.0	18.5
23	15.0	10.0	1.0	.5	.0	2.0	10.0	16.0	19.0	26.0	21.0	18.5
24	13.0	11.0	1.0	.0	.0	2.0	10.0	16.0	20.0	26.0	21.0	19.0
25	12.0	11.0	2.0	.0	.0	2.0	10.0	17.0	22.0	25.0	22.0	19.0
26	11.0	11.0	3.5	.0	.0	2.0	11.5	17.0	23.0	25.0	22.0	19.0
27	9.0	11.5	3.0	.0	.0	3.0	11.5	18.0	24.0	25.0	23.0	18.0
28	8.0	10.0	2.0	.0	.0	3.0	11.0	18.0	24.0	25.0	23.0	17.0
29	7.0	8.0	2.0	.0	.0	3.0	10.0	17.0	22.0	25.0	23.0	16.0
30	7.0	5.5	2.0	.0	---	4.0	10.0	18.0	20.0	24.0	24.0	15.0
31	7.0	---	2.0	.0	---	5.0	---	18.0	---	24.0	24.0	---
MEAN	11.0	7.5	2.0	.5	.0	1.5	8.0	15.0	19.0	23.5	23.0	19.5
WTR YR 1980	MEAN	11.0		MAX	27.0	MIN	.0					

HOUSATONIC RIVER BASIN

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01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT

LOCATION.--Lat 41°57'26", long 73°22'11", Litchfield County, Hydrologic Unit 01100005, on left bank at hydroelectric plant of Hartford Electric Light Company at Falls Village, 1.4 mi (2.3 km) downstream from Hollenbeck River, and at mile 75.9 (122.1 km).

DRAINAGE AREA.--634 mi² (1,642 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1912 to current year.

REVISED RECORDS.--WSP 781: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 529.06 ft (161.257 m), National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi (1.0 km) downstream at datum 6.72 ft (2.048 m) lower.

AVERAGE DISCHARGE.--68 years, 1,090 ft³/s (30.87 m³/s), 23.33 in/yr (593 mm/yr).

REMARKS.--Records good. Low flow completely regulated by power plant of Hartford Electric Light Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s (677 m³/s) Jan. 1, 1949, gage height, 19.4 ft (5.913 m), present datum, from floodmark; practically no flow at times when power plant was shut down; minimum daily, 24 ft³/s (0.68 m³/s) Oct. 15, 1914, Sept. 18, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,600 ft³/s (103 m³/s) and maximum (*):

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. 19	0145	4,280 121	6.13 1.868	Apr. 1	0815	3,800 108	5.76 1.756
22	1230	*7,940 225	*8.90 2.713	11	0930	5,860 166	7.35 2.240

Minimum daily discharge, 37 ft³/s (1.05 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	794	1820	1040	393	290	2750	1730	433	1290	277	161
2	2060	749	1500	1050	361	233	2340	1430	424	903	200	168
3	2620	1160	1390	966	347	290	2080	1140	404	655	329	178
4	3240	1790	1190	842	352	292	2180	1160	626	442	254	172
5	3060	1730	1130	809	339	218	2650	1010	391	519	95	168
6	2870	1390	1090	651	352	218	2530	909	462	478	388	170
7	2430	1200	1290	651	217	430	2240	950	497	332	317	184
8	2050	1020	1380	716	391	621	1960	1060	424	380	277	170
9	1800	956	1180	603	390	886	1920	1020	493	328	246	152
10	1910	1050	1060	580	206	836	4740	957	425	338	178	144
11	1880	1280	1010	748	352	1180	5770	935	487	347	166	55
12	1780	1370	970	1390	359	1130	5600	908	473	363	271	39
13	1800	1360	947	1300	313	1090	4820	887	427	328	271	37
14	1740	1250	958	1120	335	666	3840	1040	389	374	243	39
15	1590	1210	902	993	296	567	3420	1160	301	308	285	91
16	1390	1140	866	908	308	395	3110	891	440	306	210	154
17	1210	1070	1000	800	334	568	2720	1040	401	265	125	180
18	1170	1010	950	756	324	2620	2320	778	589	247	534	385
19	985	943	850	817	292	3900	2060	781	109	251	218	200
20	994	939	900	706	336	2950	1870	837	279	136	214	194
21	997	905	870	695	315	2490	1760	863	210	236	217	232
22	928	838	850	639	409	6920	1540	844	271	305	206	229
23	908	865	870	651	283	6420	1500	805	312	311	199	209
24	888	859	900	551	345	6130	1400	695	292	386	192	190
25	894	842	1360	472	326	4860	1340	580	242	276	184	190
26	862	1020	2080	538	397	3690	1320	553	270	319	176	146
27	855	2350	2100	493	347	2830	1190	480	301	175	172	105
28	811	2900	1860	481	347	2340	1410	402	258	211	171	149
29	759	2540	1410	474	346	2200	1650	438	372	315	168	188
30	865	2010	1280	450	---	2600	1760	440	1110	180	166	229
31	817	---	1190	450	---	2920	---	423	---	176	165	---
TOTAL	47253	38540	37153	23340	9712	62780	75780	27146	12112	11480	7114	4908
MEAN	1524	1285	1198	753	335	2025	2526	876	404	370	229	164
MAX	3240	2900	2100	1390	409	6920	5770	1730	1110	1290	534	385
MIN	759	749	850	450	206	218	1190	402	109	136	95	37
CFSM	2.40	2.03	1.89	1.19	.53	3.19	3.98	1.38	.64	.58	.36	.26
IN.	2.77	2.26	2.18	1.37	.57	3.68	4.45	1.59	.71	.67	.42	.29

CAL YP 1979 TOTAL 555374 MEAN 1522 MAX 13000 MIN 74 CFSM 2.40 IN 32.59
WTR YR 1980 TOTAL 357318 MEAN 976 MAX 6920 MIN 37 CFSM 1.54 IN 20.97

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1955, October 1970 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1980 (discontinued).

WATER TEMPERATURE: November 1974 to September 1980 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: April 1978 to September 1980 (discontinued).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE: April 1978 to April 1980 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1974.

REMARKS.--Due to high degree of regulation, records fair to poor. Data estimated during periods of missing record.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 529 micromhos March 4, 1980; minimum, 94 micromhos December 20, 1976.

WATER TEMPERATURE: Maximum, 30.0°C July 21, 1977; minimum, 0.0°C many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 226 mg/L Oct. 2, 1980; minimum daily mean, 1 mg/L Sept. 27, 1980.

SEDIMENT LOADS: Maximum daily, 3190 tons (2890 Mg) March 22, 1980; minimum daily, .20 ton (.18 Mg) Sept. 13, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 529 micromhos March 4; minimum, 151 micromhos March 22.

WATER TEMPERATURE: Maximum, 26.0°C June 27, Sept. 2; minimum, 0.5°C on many days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 226 mg/L Oct. 2; minimum daily mean, 1 mg/L Sept. 27.

SEDIMENT LOADS: Maximum daily, 3190 tons (2890 Mg) March 22; minimum daily, .20 ton (.18 Mg) Sept. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

DATE	TIME	AROCLOR DISSOLVED 1016 PCB SERIES (UG/L)	AROCLOR TOTAL 1016 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1221 PCB SERIES (UG/L)	AROCLOR TOTAL 1221 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1232 PCB SERIES (UG/L)	AROCLOR TOTAL 1232 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1242 PCB SERIES (UG/L)
OCT 04...	1230	--	0.0	--	0.0	--	0.0	--
NOV 27...	0940	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAR 18...	1115	0.0	0.0	0.1	0.0	0.0	0.0	0.0
18...	1215	0.0	--	0.1	--	0.0	--	0.0
18...	1315	0.0	0.0	0.1	0.0	0.0	0.0	0.0
18...	1415	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1515	0.0	0.0	0.1	0.0	0.0	0.0	0.0
22...	0820	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22...	0930	0.0	0.0	0.0	0.0	0.0	0.0	0.0
APR 04...	1230	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	0930	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1230	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1550	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JUN 30...	1315	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		AROCLOR TOTAL 1242 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1248 PCB SERIES (UG/L)	AROCLOR TOTAL 1248 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1254 PCB SERIES (UG/L)	AROCLOR TOTAL 1254 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1260 PCB SERIES (UG/L)	AROCLOR TOTAL 1260 PCB SERIES (UG/L)
OCT 04...		0.0	--	0.0	--	0.0	--	0.1
NOV 27...		0.0	0.0	0.1	0.0	0.0	0.0	0.0
MAR 18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		--	0.0	--	0.0	--	0.0	--
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.1	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
22...		0.0	0.0	0.0	0.0	0.0	0.0	0.1
22...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
APR 04...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...		0.0	0.0	0.0	0.0	0.0	0.1	0.0
10...		0.0	0.1	0.0	0.0	0.0	0.3	0.0
10...		0.0	0.0	0.1	0.0	0.0	0.1	0.1
JUN 30...		0.0	0.0	0.1	0.0	0.0	0.0	0.1

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01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 27...	0940	1850	24	120	97	APR 10...	0200	3120	254	2140	89
MAR 18...	1115	2660	100	718	95	10...	1550	5500	128	1900	83
18...	1515	3310	210	1880	96						
22...	0815	7550	242	4930	75						

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	258	239	250	286	272	279	---	---	---	269	261	266
2	238	192	205	279	269	273	---	---	---	272	264	268
3	204	173	193	274	230	262	---	---	---	278	268	274
4	173	160	167	239	220	226	---	---	---	285	275	281
5	186	175	182	246	240	243	---	---	---	287	280	284
6	193	176	188	246	239	243	---	---	---	298	289	291
7	202	176	191	248	241	244	---	---	---	303	297	300
8	212	202	207	257	246	251	271	263	267	304	297	302
9	214	210	212	264	253	258	272	265	269	316	305	310
10	218	207	211	264	249	256	277	268	271	316	310	313
11	219	213	216	259	242	248	279	269	273	316	280	303
12	218	215	217	251	245	249	281	271	276	284	227	252
13	218	212	216	250	241	245	289	278	283	258	228	244
14	226	218	223	251	248	249	288	280	284	269	249	258
15	229	226	228	---	---	---	293	282	287	272	248	262
16	238	228	233	---	---	---	295	287	291	282	261	274
17	241	235	238	---	---	---	296	281	287	---	---	---
18	249	242	245	---	---	---	298	282	289	---	---	---
19	259	248	253	---	---	---	300	296	298	---	---	---
20	264	258	262	---	---	---	308	293	299	---	---	---
21	273	262	266	---	---	---	311	295	305	---	---	---
22	279	271	275	---	---	---	302	288	294	---	---	---
23	282	272	277	---	---	---	299	286	296	---	---	---
24	286	279	283	---	---	---	297	283	289	---	---	---
25	288	279	282	---	---	---	291	240	272	---	---	---
26	285	278	282	---	---	---	237	224	231	---	---	---
27	288	279	284	---	---	---	233	221	228	---	---	---
28	286	273	282	---	---	---	225	216	219	---	---	---
29	279	267	275	---	---	---	240	225	231	---	---	---
30	280	271	274	---	---	---	253	238	243	---	---	---
31	283	272	278	---	---	---	265	252	256	---	---	---
MONTH	288	160	239	286	220	252	311	216	272	316	227	280
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	402	392	397	212	206	210	223	220	221
2	---	---	---	408	397	402	220	210	214	222	217	218
3	---	---	---	503	409	448	230	219	223	226	216	220
4	---	---	---	529	487	509	231	219	228	241	226	232
5	---	---	---	485	443	461	218	211	214	248	237	241
6	---	---	---	441	424	433	216	209	212	255	243	247
7	---	---	---	424	398	410	214	207	209	261	252	256
8	---	---	---	401	374	390	222	213	218	261	250	255
9	---	---	---	370	318	333	222	214	218	256	250	253
10	---	---	---	349	334	343	211	158	174	258	252	255
11	---	---	---	357	285	320	162	160	161	259	254	257
12	---	---	---	315	297	308	163	155	158	259	242	254
13	---	---	---	310	293	306	180	161	170	259	247	253
14	358	353	355	313	294	301	191	179	187	263	250	256
15	360	356	358	317	307	314	192	182	188	256	251	253
16	357	352	355	320	310	315	198	189	194	254	246	249
17	356	349	352	326	315	322	198	194	195	249	242	245
18	358	352	356	331	195	251	208	198	203	250	244	247
19	359	355	357	240	202	225	216	209	212	259	244	249
20	357	348	354	223	211	216	223	215	219	266	250	256
21	367	353	360	225	199	219	227	223	224	270	259	263
22	370	361	366	189	151	159	230	227	228	270	259	264
23	365	355	360	166	159	163	234	230	231	273	252	262
24	360	346	353	177	161	166	245	232	238	275	255	265
25	354	346	352	196	177	187	248	242	244	278	263	271
26	357	352	354	211	194	203	250	244	247	293	270	280
27	358	349	354	223	209	216	249	245	248	300	280	290
28	374	359	368	229	221	224	248	242	246	300	287	294
29	392	375	382	230	227	228	241	210	224	307	291	301
30	---	---	---	228	216	223	221	209	214	311	301	306
31	---	---	---	216	210	213	---	---	---	315	309	312
MONTH	392	346	359	529	151	297	250	155	212	315	216	259

HOUSATONIC RIVER BASIN

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01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	318	310	313	273	240	258	---	---	---	375	364	368
2	318	310	314	268	256	263	---	---	---	380	369	375
3	320	311	316	268	245	254	---	---	---	384	378	381
4	320	316	318	258	247	251	---	---	---	386	380	382
5	328	320	323	266	255	259	---	---	---	387	378	382
6	334	325	329	272	263	266	---	---	---	384	371	379
7	335	321	327	278	267	273	---	---	---	384	366	373
8	325	308	317	279	266	273	---	---	---	374	366	369
9	314	304	309	275	263	272	---	---	---	374	371	373
10	308	301	305	---	---	---	---	---	---	375	369	372
11	307	301	304	---	---	---	---	---	---	373	366	369
12	307	300	304	---	---	---	---	---	---	372	366	368
13	315	307	310	---	---	---	312	304	307	369	364	367
14	316	310	314	---	---	---	309	299	304	372	363	368
15	316	311	314	---	---	---	310	296	304	371	359	368
16	314	309	311	---	---	---	321	313	316	371	364	369
17	308	295	303	---	---	---	327	318	322	372	353	366
18	320	300	308	---	---	---	331	323	327	364	355	359
19	339	322	329	---	---	---	341	333	338	364	346	357
20	335	311	324	---	---	---	343	336	340	346	323	334
21	328	320	323	---	---	---	345	335	340	356	324	335
22	330	319	325	---	---	---	340	331	336	365	349	359
23	329	318	325	---	---	---	345	334	340	365	358	363
24	324	310	318	---	---	---	356	346	350	369	361	366
25	323	315	320	---	---	---	365	356	359	374	363	370
26	334	325	329	---	---	---	370	364	367	369	357	364
27	344	331	338	---	---	---	372	363	367	366	359	363
28	354	344	350	---	---	---	371	362	366	376	362	369
29	359	350	356	---	---	---	368	359	362	374	359	365
30	352	253	302	---	---	---	365	356	362	359	346	352
31	---	---	---	---	---	---	369	356	363	---	---	---
MONTH	359	253	319	279	240	263	372	296	341	387	323	366

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.5	19.5	20.0	21.0	19.0	20.0	---	---	---	25.0	23.5	24.0
2	20.5	20.0	20.5	20.5	20.0	20.5	---	---	---	26.0	24.0	25.0
3	21.5	20.5	21.0	21.0	20.0	20.5	---	---	---	25.5	24.0	24.5
4	21.5	21.0	21.0	23.0	20.0	21.5	---	---	---	25.0	23.5	24.0
5	21.0	20.0	20.5	23.5	22.5	23.0	---	---	---	24.0	22.5	23.5
6	21.0	20.0	20.5	23.5	22.5	23.0	---	---	---	24.0	22.0	23.0
7	21.0	20.0	20.0	22.5	21.0	22.0	---	---	---	23.5	21.5	22.5
8	20.0	19.0	19.5	22.0	21.5	21.5	---	---	---	22.0	20.5	21.0
9	19.0	16.5	17.5	21.5	21.0	---	---	---	---	21.0	19.5	20.5
10	16.5	16.0	16.0	---	---	---	---	---	---	21.0	19.5	20.0
11	16.0	15.5	16.0	---	---	---	---	---	---	20.0	18.5	19.0
12	16.5	15.0	16.0	---	---	---	---	---	---	20.0	18.5	19.5
13	17.5	16.0	16.5	---	---	---	25.0	24.5	25.0	20.0	19.5	20.0
14	19.5	17.0	18.5	---	---	---	24.5	24.0	24.0	19.5	19.5	19.5
15	20.5	19.5	20.0	---	---	---	24.0	23.5	23.5	19.5	19.0	19.5
16	21.5	20.5	21.0	---	---	---	23.5	22.5	23.0	19.5	19.0	19.0
17	21.5	20.5	21.0	---	---	---	23.0	21.5	22.5	19.0	18.5	18.5
18	21.5	20.5	21.0	---	---	---	22.5	21.0	21.5	18.5	18.0	18.5
19	21.0	20.0	20.5	---	---	---	21.0	20.5	21.0	18.5	18.0	18.0
20	21.0	19.5	20.5	---	---	---	21.0	20.5	21.0	18.5	18.0	18.0
21	21.0	20.0	20.5	---	---	---	20.5	20.0	20.0	19.0	18.0	18.5
22	21.5	19.5	20.5	---	---	---	21.0	19.5	20.0	20.0	19.0	19.5
23	21.5	20.0	20.5	---	---	---	22.5	20.0	21.0	20.5	20.0	20.5
24	23.0	20.5	21.5	---	---	---	23.0	20.5	21.5	20.5	20.0	20.0
25	24.5	22.5	23.5	---	---	---	23.5	21.5	22.5	20.0	19.0	19.5
26	25.0	24.0	24.5	---	---	---	24.5	21.5	23.0	19.0	18.5	19.0
27	26.0	24.5	25.0	---	---	---	24.5	23.5	24.0	18.5	17.5	18.0
28	25.5	24.5	25.0	---	---	---	24.5	23.5	24.0	17.0	16.5	16.5
29	24.5	22.0	23.5	---	---	---	24.0	23.5	23.5	16.5	15.5	15.5
30	22.0	19.0	20.0	---	---	---	24.0	23.0	23.5	16.0	15.0	15.5
31	---	---	---	---	---	---	24.5	23.0	24.0	---	---	---
MONTH	26.0	15.0	20.5	23.5	19.0	21.5	25.0	19.5	22.5	26.0	15.0	20.0

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	2230	17	102	2640	19	135	2120	25	143
2	2250	17	103	2050	12	66	1850	21	105
3	2320	18	113	1810	12	59	1540	16	67
4	2240	16	97	1740	20	94	1430	12	46
5	2170	14	82	1740	19	89	1320	12	43
6	2120	13	74	1550	15	63	1310	12	42
7	1940	12	64	1440	15	58	1220	11	36
8	1830	11	54	1260	11	37	1120	11	33
9	1690	11	50	1230	7	23	979	11	29
10	1890	13	66	1110	6	18	908	14	34
11	2040	14	77	1070	5	14	1010	22	60
12	1960	13	69	964	5	13	1140	24	74
13	1900	11	56	994	6	16	1240	22	74
14	2010	16	94	1280	6	21	954	19	49
15	2540	13	89	1470	6	24	870	16	38
16	2560	11	76	1240	6	20	732	13	26
17	2620	17	120	1060	6	17	632	12	20
18	2500	15	101	902	6	15	648	12	21
19	2230	11	66	898	6	15	497	12	16
20	1950	8	42	914	6	15	491	12	16
21	1810	8	39	905	6	15	510	12	17
22	1620	9	39	745	6	12	441	11	13
23	1450	8	31	768	7	15	490	11	15
24	1430	8	31	1190	13	48	329	10	8.9
25	1270	8	27	4120	107	1210	447	9	11
26	1280	9	31	5740	140	2170	409	8	8.8
27	1570	12	51	5530	102	1520	545	7	10
28	2200	13	77	4760	67	861	74	6	1.2
29	2900	22	173	4050	50	547	382	8	8.3
30	3000	24	194	3160	32	273	314	7	5.9
31	---	---	---	2540	28	192	---	---	---
TOTAL	61560	---	2288	60870	---	7675	25952	---	1071.1
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST			SEPTEMBER		
1	302	6	4.9	277	8	6.0	473	21	27
2	469	7	8.9	275	8	5.9	412	15	17
3	543	7	10	325	10	8.8	369	17	17
4	480	6	7.8	284	11	8.4	346	14	13
5	343	7	6.5	416	12	13	418	21	24
6	349	8	7.5	328	11	9.7	718	41	89
7	382	8	8.3	249	11	7.4	1900	89	472
8	281	7	5.3	220	10	5.9	2120	88	504
9	305	7	5.8	215	12	7.0	1710	55	254
10	276	7	5.2	213	14	8.1	1230	40	133
11	289	7	5.5	254	15	10	800	45	97
12	271	7	5.1	342	19	18	631	37	63
13	269	7	5.1	625	30	51	301	22	18
14	277	8	6.0	706	24	46	486	12	16
15	250	7	4.7	588	28	44	556	9	14
16	253	7	4.8	442	18	21	494	8	11
17	253	8	5.5	377	18	18	543	10	15
18	593	12	19	355	16	15	522	9	13
19	672	16	29	423	13	15	400	10	11
20	522	12	17	489	19	25	418	10	11
21	372	9	9.0	434	20	23	493	10	13
22	271	8	5.9	345	17	16	1130	19	75
23	523	16	23	323	24	21	1700	71	322
24	466	14	18	306	19	16	1470	60	251
25	365	9	8.9	302	16	13	1080	22	64
26	290	7	5.5	422	18	21	844	13	30
27	375	8	8.1	411	19	21	740	13	26
28	473	9	11	503	27	37	662	14	25
29	454	8	9.8	447	16	19	882	15	36
30	369	8	8.0	485	38	50	1130	16	49
31	309	7	5.8	518	41	57	---	---	---
TOTAL	11646	---	284.9	11899	---	637.2	24978	---	2710

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1090	17	50	794	10	21	1820	18	88
2	2060	143	882	749	10	20	1500	15	61
3	2620	226	1560	1160	12	38	1390	12	45
4	3240	82	717	1790	21	101	1190	10	32
5	3060	72	595	1730	19	89	1130	8	24
6	2870	41	318	1390	16	60	1090	6	18
7	2430	33	217	1200	14	45	1290	4	14
8	2050	23	127	1020	12	33	1380	4	15
9	1800	19	92	956	11	28	1180	4	13
10	1910	18	93	1050	11	31	1060	4	11
11	1880	17	86	1280	12	41	1010	4	11
12	1780	16	77	1370	13	48	970	4	10
13	1800	14	68	1360	15	55	947	4	10
14	1740	14	66	1250	14	47	958	4	10
15	1590	14	60	1210	13	42	902	4	9.7
16	1390	13	49	1140	12	37	866	5	12
17	1210	13	42	1070	11	32	1000	6	16
18	1170	13	41	1010	11	30	950	6	15
19	985	12	32	943	10	25	850	5	11
20	994	11	30	939	10	25	900	4	9.7
21	997	10	27	905	10	24	870	6	14
22	928	9	23	838	10	23	850	6	14
23	908	9	22	865	10	23	870	4	9.4
24	888	10	24	859	9	21	900	4	9.7
25	894	11	27	842	8	18	1360	5	18
26	862	12	28	1020	12	63	2080	21	115
27	855	12	28	2350	41	259	2100	15	85
28	811	11	24	2900	20	157	1860	10	50
29	759	10	20	2540	30	203	1410	9	34
30	865	10	23	2010	22	119	1280	6	21
31	817	10	22	---	---	---	1190	6	19
TOTAL	47253	---	5490	38540	---	1758	37153	---	824.5
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	1040	5	14	393	4	4.2	290	8	6.3
2	1050	4	11	361	3	2.9	233	7	4.4
3	966	4	10	347	3	2.8	290	7	5.5
4	842	4	9.1	352	4	3.8	292	7	5.5
5	809	4	8.7	339	3	2.7	218	6	3.5
6	651	3	5.3	352	4	3.8	218	6	3.5
7	651	3	5.3	217	3	1.8	430	7	8.1
8	716	5	9.7	391	5	5.3	621	8	13
9	603	5	8.1	390	3	3.2	886	15	36
10	580	4	6.3	206	2	1.1	836	11	25
11	748	5	10	352	5	4.8	1180	22	70
12	1390	14	53	359	4	3.9	1130	20	61
13	1300	11	39	313	4	3.4	1090	16	47
14	1120	10	30	335	4	3.6	666	10	18
15	993	11	29	296	3	2.4	567	7	11
16	908	10	25	308	4	3.3	395	6	6.4
17	800	10	22	334	3	2.7	568	6	9.2
18	756	10	20	324	3	2.6	2620	98	873
19	817	9	20	292	3	2.4	3900	107	1120
20	706	9	17	336	3	2.7	2950	54	430
21	695	10	19	315	4	3.4	2490	30	196
22	639	17	29	409	4	4.4	6920	172	3190
23	651	16	28	283	4	3.1	6420	177	3070
24	551	13	19	345	3	2.8	6130	151	2500
25	472	10	13	326	3	2.6	4860	94	1230
26	538	7	10	397	4	4.3	3690	57	568
27	493	6	8.0	347	7	6.6	2830	38	290
28	481	6	7.8	347	8	7.5	2340	39	246
29	474	5	6.4	346	8	7.5	2200	18	107
30	450	5	6.1	---	---	---	2600	24	168
31	450	4	4.9	---	---	---	2920	36	284
TOTAL	23340	---	503.7	9712	---	105.6	62780	---	14605.4

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	2750	22	163	1730	17	79	433	7	8.2
2	2340	20	126	1430	10	39	424	8	9.2
3	2080	17	95	1140	7	22	404	8	8.7
4	2180	19	114	1160	6	19	626	7	12
5	2650	34	243	1010	8	22	391	4	4.2
6	2530	27	184	909	9	22	462	5	6.2
7	2230	20	120	950	7	18	497	6	8.1
8	1960	18	95	1060	8	23	424	5	5.7
9	1920	18	97	1020	9	25	493	6	8.0
10	4740	190	2370	957	12	31	425	7	8.0
11	5770	197	3070	935	15	38	487	6	7.9
12	5600	137	2060	908	10	25	473	7	8.9
13	4820	133	1730	887	6	14	427	10	12
14	3840	62	643	1040	7	20	389	9	9.5
15	3420	45	416	1160	7	22	301	7	5.7
16	3110	48	403	891	6	14	440	7	8.3
17	2720	39	286	1040	6	17	401	7	7.6
18	2320	18	113	778	7	15	589	6	9.5
19	2060	18	100	781	11	23	109	6	1.8
20	1870	25	126	837	13	29	279	6	4.5
21	1760	23	109	863	15	35	210	7	4.0
22	1540	13	54	844	15	34	271	8	5.9
23	1500	10	40	805	10	22	312	8	6.7
24	1400	10	38	695	7	13	292	8	6.3
25	1340	10	36	580	9	14	242	7	4.6
26	1320	9	32	553	10	15	270	7	5.1
27	1190	8	26	480	9	12	301	7	5.7
28	1410	9	34	402	8	8.7	258	7	4.9
29	1650	18	80	438	8	9.5	372	7	7.0
30	1760	18	86	440	9	11	1110	20	68
31	---	---	---	423	8	9.1	---	---	---
TOTAL	75780	---	13089	27146	---	700.3	12112	---	272.2
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	1290	21	73	277	8	6.0	161	6	2.6
2	903	15	37	200	7	3.8	168	5	2.3
3	655	12	21	329	9	8.0	178	5	2.4
4	442	10	12	254	8	5.5	172	6	2.8
5	519	9	13	95	8	2.1	168	5	2.3
6	478	9	12	388	10	10	170	5	2.3
7	332	10	9.0	317	9	7.7	184	5	2.5
8	380	12	12	277	8	6.0	170	6	2.8
9	328	12	11	246	6	4.0	152	6	2.5
10	338	9	8.2	178	6	2.9	144	5	1.9
11	347	11	10	166	5	2.2	55	3	4.45
12	363	12	12	271	7	5.1	39	2	2.21
13	328	9	8.0	271	7	5.1	37	2	2.20
14	374	9	9.1	243	7	4.6	39	2	2.21
15	308	8	6.7	285	8	6.2	91	2	2.49
16	306	8	6.6	210	8	4.5	154	4	1.7
17	265	8	5.7	125	8	2.7	180	4	1.9
18	247	7	4.7	534	8	12	385	4	4.2
19	251	7	4.7	218	8	4.7	200	4	2.2
20	136	9	3.3	214	9	5.2	194	4	2.1
21	236	10	6.4	217	9	5.3	232	3	1.9
22	305	8	6.6	206	9	5.0	229	3	1.9
23	311	7	5.9	199	9	4.8	209	2	1.1
24	386	7	7.3	192	9	4.7	190	2	1.0
25	276	6	4.5	184	8	4.0	190	2	1.0
26	319	6	5.2	176	8	3.8	146	2	1.79
27	175	5	2.4	172	8	3.7	105	1	1.28
28	211	7	4.0	171	7	3.2	149	2	1.80
29	315	9	7.7	168	7	3.2	188	5	2.5
30	180	6	2.9	166	6	2.7	229	4	2.5
31	176	4	1.9	165	6	2.7	---	---	---
TOTAL	11480	---	333.8	7114	---	151.4	4908	---	51.83
YEAR	357318		37885.73						

HOUSATONIC RIVER BASIN

01199050 SALMON CREEK AT LIME ROCK, CT

LOCATION.--Lat 41°56'32", long 73°23'29", Litchfield County, Hydrologic Unit 01100005, on left bank 300 ft (90 m) upstream from bridge on Uptown Salisbury Road, 0.6 mi (1.0 km) north of Lime Rock, and 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.37 ft (189.089 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--19 years, 48.8 ft³/s (1.382 m³/s), 22.54 in/yr (572 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft³/s (52.1 m³/s) March 6, 1979, gage height, 5.90 ft (1.798 m); minimum, 0.7 ft³/s (0.020 m³/s) Sept. 25, 1964, gage height, 0.77 ft (0.235 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of about 13.5 ft (about 4.11 m), from floodmarks, discharge 6,300 ft³/s (178 m³/s), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of contacted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 18	1500	265 about 7.50 about	2.55 .777
22	Unknown	*700 19.8	Unknown Unknown
Apr. 10	1000	630 17.8	3.57 1.09

Minimum discharge, 3.1 ft³/s (0.088 m³/s) Aug. 27, gage height, 0.76 ft (0.232 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	26	48	36	11	7.7	90	63	15	36	6.5	3.6
2	72	22	45	34	10	7.6	80	58	15	24	8.2	3.4
3	50	82	41	32	10	7.4	78	53	15	21	21	6.5
4	67	69	38	29	9.6	7.3	118	47	14	19	11	4.4
5	49	43	37	27	9.5	7.2	118	41	13	17	9.6	4.1
6	73	40	36	26	9.4	11	92	37	12	25	15	9.6
7	55	37	58	25	9.3	11	82	37	22	14	10	6.1
8	46	37	47	24	9.2	32	79	41	21	16	8.2	4.7
9	52	34	38	23	9.0	38	98	36	16	16	6.9	4.1
10	79	52	36	22	8.9	22	429	33	15	15	5.4	3.8
11	78	58	37	23	8.8	49	238	31	15	15	8.6	3.5
12	76	56	33	85	8.7	27	158	33	13	13	11	3.6
13	82	49	33	68	8.6	22	122	33	12	12	7.7	3.6
14	72	48	34	37	8.5	20	115	34	11	12	6.9	3.8
15	65	43	31	30	8.4	19	150	30	11	9.1	8.6	4.1
16	69	38	30	28	8.3	19	125	28	25	8.2	7.3	3.8
17	68	34	47	25	8.2	22	105	31	15	8.2	6.1	4.7
18	53	36	63	23	8.1	188	93	27	13	7.3	5.4	35
19	37	36	82	21	8.0	79	79	32	12	6.9	5.7	11
20	28	35	90	19	7.9	58	67	29	11	6.5	7.3	7.7
21	25	34	30	18	7.8	67	61	30	12	6.5	6.5	6.5
22	24	32	29	17	7.8	500	55	31	11	7.3	5.7	5.7
23	28	32	34	15	7.7	280	52	26	10	9.1	5.7	5.4
24	25	30	39	15	9.0	170	48	23	9.6	8.2	4.7	4.7
25	29	31	87	14	12	125	46	21	11	6.9	4.4	4.7
26	28	58	81	14	10	110	52	19	9.6	6.5	4.1	5.7
27	27	122	63	13	8.9	100	49	17	8.2	6.5	3.6	5.4
28	27	65	54	12	8.0	95	69	16	7.7	5.7	3.6	4.7
29	27	55	50	12	7.9	90	82	16	12	6.5	3.8	4.4
30	27	52	47	11	---	110	72	15	64	9.1	3.8	4.4
31	27	---	45	11	---	105	---	15	---	6.9	3.8	---
TOTAL	1507	1386	1463	789	258.5	2406.2	3102	983	451.1	384.4	226.1	182.7
MEAN	48.6	46.2	47.2	25.5	8.91	77.6	103	31.7	15.0	12.4	7.29	6.09
MAX	82	122	90	85	12	500	429	63	64	36	21	35
MIN	24	22	29	11	7.7	7.2	46	15	7.7	5.7	3.6	3.4
CFSM	1.65	1.57	1.61	.87	.30	2.64	3.50	1.08	.51	.42	.25	.21
IN.	1.91	1.75	1.85	1.00	.33	3.04	3.92	1.24	.57	.49	.29	.23

CAL YR 1979 TOTAL 23314.6 MEAN 63.9 MAX 893 MIN 2.6 CFSM 2.17 IN 29.50
WTR YR 1980 TOTAL 13139.0 MEAN 35.9 MAX 500 MIN 3.4 CFSM 1.22 IN 16.62

HOUSATONIC RIVER BASIN

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01199200 GUINEA BROOK AT ELLSWORTH, CT

LOCATION.--Lat 41°49'27", long 73°25'50", Litchfield County, Hydrologic Unit 01100005, on left bank just upstream from culvert on West Woods Road, 0.4 mi (0.6 km) southwest of Ellsworth, 3 mi (5 km) west of Cornwall Bridge, and 4.5 mi (7.2 km) southeast of Sharon.

DRAINAGE AREA.--3.50 mi² (9.06 km²).

PERIOD OF RECORD.--July 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,141.60 ft (347.960 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 7.04 ft³/s (0.199 m³/s), 27.32 in/yr (694 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft³/s (9.03 m³/s) Dec. 21, 1973, gage height, 5.84 ft (1.780 m); no flow many days in 1962, 1964-68, 1970, 1974, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum (*):

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)
Oct. 15	1000	59 1.67	2.59 0.789	Mar. 22	0300	*192 5.44	*4.40 1.341
Apr. 10	0500	115 3.26	3.42 1.042				

Minimum daily discharge, no flow Sept. 8, 15-17, 21-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	2.8	10	7.3	1.7	1.0	16	8.4	1.1	5.3	.19	.07
2	15	2.8	9.1	6.5	1.4	.90	14	7.3	1.1	2.4	.14	.06
3	12	18	8.2	6.4	1.4	1.2	12	6.7	1.2	1.7	.35	.06
4	14	17	8.1	6.2	1.4	1.4	17	6.0	1.0	1.3	.25	.04
5	13	12	7.8	4.7	1.3	2.3	18	5.5	.84	1.6	.31	.06
6	13	8.9	8.2	4.4	1.3	8.0	16	5.1	.69	7.4	.49	.05
7	10	7.7	13	3.5	1.3	4.7	14	4.7	2.5	8.0	.40	.03
8	7.8	7.0	10	3.8	1.2	15	13	5.5	2.5	4.5	.25	.00
9	3.1	6.6	7.6	3.6	1.2	13	19	5.4	2.1	2.1	.16	2.0
10	5.0	8.7	7.0	3.3	1.2	6.3	69	4.8	1.7	1.3	.11	1.1
11	7.6	10	6.8	6.4	1.2	13	37	4.4	1.5	1.9	.43	.40
12	8.0	11	6.7	25	1.2	8.6	30	4.8	1.1	1.1	.90	.16
13	8.6	10	6.9	19	1.2	4.6	24	5.1	.99	.78	.49	.08
14	8.0	9.5	6.8	9.9	1.2	2.9	24	5.5	.86	.33	.36	.06
15	29	8.6	6.0	9.5	1.1	2.5	25	5.0	.64	.26	.41	.00
16	13	7.3	6.2	9.9	1.1	2.3	19	4.4	3.6	.24	.36	.00
17	7.4	7.2	9.1	8.8	1.1	5.3	15	4.0	2.5	.24	.26	.00
18	6.2	7.4	7.3	7.1	1.1	34	13	3.7	1.5	.19	.24	.06
19	5.1	6.5	5.6	7.0	1.1	19	11	3.9	1.0	.17	.27	.06
20	4.8	5.8	4.7	6.6	1.1	12	10	3.7	.82	.16	.26	.02
21	4.4	6.0	5.0	7.1	1.2	31	9.5	4.0	.69	.17	.21	.00
22	4.1	5.8	4.7	5.5	1.3	107	8.7	4.5	.63	.24	.18	.00
23	4.1	5.5	5.8	5.0	1.4	49	8.0	3.8	.42	1.3	.16	.00
24	5.1	5.3	6.8	4.9	1.5	38	7.6	3.0	.33	.97	.13	.00
25	4.6	5.5	20	3.7	2.1	30	7.3	2.3	.29	.31	.13	.00
26	4.4	15	19	3.5	2.6	24	7.0	1.7	.26	.19	.11	.00
27	3.0	33	12	3.5	2.7	19	6.8	1.3	.26	.16	.08	.00
28	2.9	19	10	3.1	1.2	16	8.9	1.1	.26	.12	.05	.00
29	3.7	13	9.0	2.8	1.1	15	14	.98	1.3	.22	.04	.00
30	3.3	11	8.4	2.6	---	---	10	.87	10	.21	.05	.00
31	2.9	---	7.9	2.1	---	16	---	.92	---	.20	.08	---
TOTAL	237.7	293.9	263.7	202.7	39.9	520.00	503.8	128.37	43.68	45.06	7.85	4.31
MFAN	7.67	9.80	8.51	6.54	1.38	16.8	16.8	4.14	1.46	1.45	.25	.14
MAX	29	33	20	25	2.7	107	69	8.4	10	9.0	.90	2.0
MIN	2.9	2.8	4.7	2.1	1.1	.90	6.8	.87	.26	.12	.04	.00
CFSM	2.19	2.80	2.43	1.87	.39	4.80	4.80	1.18	.42	.41	.07	.04
IN.	2.53	3.12	2.80	2.15	.42	5.53	5.35	1.36	.46	.48	.08	.05

CAL YR 1979	TOTAL	3746.54	MFAN	10.3	MAX	143	MIN	.03	CFSM	2.94	IN	39.81
WTR YR 1980	TOTAL	2290.97	MEAN	6.25	MAX	107	MIN	.00	CFSM	1.79	IN	24.34

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, Hydrologic Unit 01100005, on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.

REVISED RECORDS.--WSP 1201: 1939. WSP 1701: 1955-56, 1957(M), 1958-59. WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft (92.78 m), National Geodetic Vertical Datum of 1929, (levels by Connecticut Light and Power Company).

REMARKS.--Records good. Infrequent regulation at low flow. Records of iron, specific conductance, and pH of daily samples for 1958-59 available in district office at Hartford, Connecticut. Chemical analyses available for water years 1959 (WSP 1641), 1968 (WSP 2091), 1973-74 (WRDC 1973-74), 1975 (WDR CT-75-1) and water temperatures available for water year 1959 (WSP 1641).

AVERAGE DISCHARGE.--51 years, 305 ft³/s (8.638 m³/s), 20.40 in/yr (518 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Aug. 19, 1955, gage height, 14.9 ft (4.54 m), from high-water mark, from rating curve extended above 9,800 ft³/s (278 m³/s); minimum, 5 ft³/s (0.14 m³/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft³/s (0.20 m³/s) Oct. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

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. 18	1330	1430 40.50	4.48 1.36	Mar. 23	0100	*3880 110	*7.02 2.14
Apr. 10	2230	2680 75.90	5.93 1.81				

Minimum discharge, 11 ft³/s (0.311 m³/s) Sept. 13, 14, gage height, 0.55 ft (0.168 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	134	450	315	125	80	800	550	104	199	36	18
2	330	132	403	297	122	80	703	491	106	139	34	19
3	369	376	363	279	120	79	640	453	104	122	40	18
4	626	542	340	238	118	78	790	417	104	97	45	17
5	403	363	327	241	115	76	914	379	96	86	41	17
6	622	312	315	189	112	78	712	350	86	157	41	18
7	468	282	432	215	110	86	618	327	92	124	51	16
8	363	262	397	202	110	199	571	334	134	96	47	17
9	321	246	330	187	108	383	680	346	130	80	39	16
10	340	282	306	175	105	209	2330	318	109	71	34	15
11	379	373	288	194	104	373	2150	291	101	65	33	13
12	369	390	279	671	102	276	1420	294	96	59	41	13
13	376	369	279	446	100	197	1130	309	91	54	40	11
14	324	353	300	390	98	175	952	312	80	51	36	11
15	285	334	268	363	97	164	1100	303	76	47	38	12
16	260	309	262	324	96	141	1010	268	83	44	37	12
17	235	285	330	285	95	172	835	243	109	42	36	13
18	220	268	254	274	94	1110	727	223	86	40	32	30
19	202	254	228	270	92	780	653	225	76	38	29	44
20	192	243	235	250	91	487	592	220	70	36	38	35
21	182	235	220	230	90	887	546	209	66	35	39	28
22	177	228	215	220	89	3450	503	251	62	47	41	24
23	172	223	225	205	110	2840	457	223	61	63	36	22
24	162	215	251	195	130	1660	428	189	57	60	31	20
25	153	215	506	180	109	1430	403	168	56	49	27	18
26	149	376	675	170	90	1190	393	151	54	41	24	18
27	151	1030	530	160	83	941	383	138	48	37	32	20
28	143	717	464	150	82	805	432	120	46	34	42	18
29	151	592	417	140	81	751	671	115	46	37	20	17
30	145	510	386	135	---	941	653	109	306	44	18	16
31	138	---	353	130	---	892	---	102	---	42	18	---
TOTAL	8573	10450	10628	7720	2978	21010	24196	8428	2735	2136	1096	566
MEAN	277	348	343	249	103	678	807	272	91.2	68.9	35.4	18.9
MAX	626	1030	675	671	130	3450	2330	550	306	199	51	44
MIN	138	132	215	130	81	76	383	102	46	34	18	11
CFSM	1.37	1.71	1.69	1.23	.51	3.34	3.98	1.34	.45	.34	.17	.09
IN.	1.57	1.91	1.95	1.41	.55	3.85	4.43	1.54	.50	.39	.20	.10

CAL YR 1979	TOTAL	155243	MEAN	425	MAX	4560	MIN	30	CFSM	2.09	IN	28.45
WTR YR 1980	TOTAL	100516	MEAN	275	MAX	3450	MIN	11	CFSM	1.36	IN	18.42

HOUSATONIC RIVER BASIN

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01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, April to August 1968, October 1972 to May 1975, November 1979 (discontinued).

WATER TEMPERATURES: October 1958 to September 1959.

EXTREMES FOR PERIOD OF DAILY RECORD:

SPECIFIC CONDUCTANCE (1958-59): Maximum daily, 432 micromhos Sept. 29, 1959; minimum daily, 127 micromhos Feb. 11, 1959.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 17, 1959; minimum, 0.5°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC. TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
NOV 16...	1030	18	13	31	0	4	12	100

HOUSATONIC RIVER BASIN

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'11", long 73°29'25", Litchfield County, Hydrologic Unit 01100005, on left bank 0.4 mi (0.6 km) downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 7 at Gaylordsville, 1.5 mi (2.4 km) downstream from Tenmile River, and at mile 50.6 (81.4 km).

DRAINAGE AREA.--993 mi² (2,572 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary), July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft (72.171 m) National Geodetic Vertical Datum of 1929. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi (1.0 km) downstream at different datum.

REMARKS.--Records good. Ordinary flow regulated by power plant upstream. Chemical analyses available for water years 1960 (WSP 1741), 1968 (WSP 2091) and water temperatures for 1960 (WSP 1741), 1968 (WSP 2091).

AVERAGE DISCHARGE.--40 years, (1940-80), 1,701 ft³/s (48.17 m³/s) 23.31 in/yr (592 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,800 ft³/s (1,470 m³/s) Aug. 19, 1955, gage height, 18.58 ft (5.663 m); minimum observed, about 30 ft³/s (0.85 m³/s) Oct. 28, 1914, gage height, 2.18 ft (0.664 m), site and datum then in use; minimum daily since July 1940, about 60 ft³/s (1.70 m³/s) Aug. 31, 1944, Sept. 20, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1854 reached a stage of 21 ft 3 in (6.477 m), former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft (4.42 m), from floodmarks, at present site, discharge, 37,000 ft³/s (1,050 m³/s) by computation of peak flow over dam 2.5 mi (4.0 km) upstream adjusted for flow from intervening area.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6000 ft³/s (170 m³/s) and maximum (*):

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. 22	1345	*15,400 436	*10.65 3.246	Apr. 10	2000	10,400 295	8.85 2.697

Minimum daily discharge, 73 ft³/s (2.07 m³/s) Sept. 12-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	1110	2690	1690	844	500	4440	2500	608	1750	370	255
2	2500	1080	2300	1620	667	455	3920	2240	695	1310	318	341
3	3180	1810	2060	1540	596	400	3480	1950	666	1100	409	209
4	4000	2760	1820	1380	570	541	3790	1780	759	816	604	245
5	3980	2470	1750	1280	702	415	4430	1670	719	653	353	264
6	3980	2090	1730	1200	581	426	4060	1460	563	959	419	268
7	3470	1780	2060	1160	664	530	3640	1470	833	620	439	254
8	2820	1590	2160	1150	438	969	3250	1560	826	583	430	290
9	2490	1460	1900	1110	619	1650	3520	1650	761	614	411	257
10	2590	1570	1710	1110	619	1350	9190	1440	743	544	336	270
11	2690	2030	1550	1010	449	2000	9360	1370	679	541	297	250
12	2630	2140	1540	2750	588	1890	8330	1450	692	506	342	73
13	2640	2060	1530	2160	469	1460	7180	1370	635	469	378	73
14	2480	1930	1550	1900	474	1160	5880	1480	549	587	376	73
15	2240	1890	1460	1760	594	1100	5750	1590	542	468	443	73
16	2030	1790	1400	1560	461	887	5100	1510	745	463	391	73
17	1810	1640	1630	1470	612	851	4420	1340	680	406	276	374
18	1670	1520	1570	1400	635	3790	3860	1280	733	387	311	401
19	1510	1580	1290	1300	591	5300	3400	1120	525	390	645	507
20	1400	1410	1400	1310	572	4150	3110	1190	553	329	216	291
21	1340	1450	1300	1230	609	4460	2810	1300	561	263	302	261
22	1350	1320	1300	1140	547	14400	2510	1310	355	394	356	417
23	1280	1310	1360	1130	659	11200	2260	1240	364	518	323	336
24	1260	1320	1420	1040	577	9470	2200	1080	602	538	237	258
25	1250	1290	2250	887	671	7940	2100	1040	435	446	273	288
26	1250	1840	3250	811	668	6240	2100	780	265	386	234	298
27	1190	3930	3190	921	584	4990	2000	880	446	421	265	119
28	1090	4240	2780	883	510	4180	2300	603	396	288	394	177
29	1220	3770	2220	849	611	3840	2500	673	564	361	229	296
30	1130	3130	2000	737	---	4460	2800	712	1450	445	280	332
31	1120	---	1860	723	---	4740	---	612	---	294	196	---
TOTAL	65220	59310	58030	40211	17181	105744	123690	41650	18944	17849	10853	7623
MEAN	2104	1977	1872	1297	592	3411	4123	1344	631	576	350	254
MAX	4000	4240	3250	2750	844	14400	9360	2500	1450	1750	645	507
MIN	1090	1080	1290	723	438	400	2000	603	265	263	196	73
CFSM	2.12	1.99	1.89	1.31	.60	3.44	4.15	1.35	.64	.58	.35	.26
IN.	2.44	2.22	2.17	1.51	.64	3.96	4.63	1.56	.71	.67	.41	.29

CAL YR 1979	TOTAL	869547	MEAN	2382	MAX	19800	MIN	288	CFSM	2.40	IN	32.58
WTR YR 1980	TOTAL	566305	MEAN	1547	MAX	14400	MIN	73	CFSM	1.56	IN	21.22

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1978 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1978 to September 1980 (discontinued).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE.--April 1979 to March 1980 (discontinued).

REMARKS.--Due to high degree of regulation, records fair to poor during low to normal flows, fair during high flows when effects of regulation were minimal. Data estimated during periods of missing record.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 419 mg/L March 22, 1980; minimum daily mean, 2 mg/L on numerous days during Dec., Jan., and Feb. of 1980.

SEDIMENT LOADS: Maximum daily, 16300 tons (14800 Mg) March 22, 1980; minimum daily, 0.59 ton (0.54 Mg) Sept. 15-16, 1980.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 419 mg/L March 22; minimum daily mean, 2 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 16300 tons (14800 Mg) March 22; minimum daily, 0.59 ton (0.54 Mg) September 15-16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

DATE	TIME	AROCLOR DISSOLVED 1016 PCB SERIES (UG/L)	AROCLOR TOTAL 1016 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1221 PCB SERIES (UG/L)	AROCLOR TOTAL 1221 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1232 PCB SERIES (UG/L)	AROCLOR TOTAL 1232 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1242 PCB SERIES (UG/L)
OCT 04...	1500	--	0.0	--	0.0	--	0.0	--
NOV 27...	1250	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAR 18...	1100	0.0	0.0	0.1	0.0	0.0	0.0	0.0
18...	1200	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...	1500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1040	0.0	0.0	0.0	0.0	0.0	0.0	0.0
APR 04...	1315	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1045	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...	1500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JUN 30...	1245	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATE	TIME	AROCLOR TOTAL 1242 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1248 PCB SERIES (UG/L)	AROCLOR TOTAL 1248 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1254 PCB SERIES (UG/L)	AROCLOR TOTAL 1254 PCB SERIES (UG/L)	AROCLOR DISSOLVED 1260 PCB SERIES (UG/L)	AROCLOR TOTAL 1260 PCB SERIES (UG/L)
OCT 04...		0.0	--	0.0	--	0.1	--	0.0
NOV 27...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAR 18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
18...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
22...		0.0	0.0	0.0	0.0	0.0	0.0	0.1
APR 04...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10...		0.0	0.0	0.0	0.0	0.0	0.0	0.0
JUN 30...		0.0	0.0	0.0	0.0	0.0	0.0	0.0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 27...	1250	3780	43	439	81	MAR 22...	0800	14400	386	15000	72
MAR 18...	0730	3050	160	1320	86	22...	1030	14800	870	34800	43
18...	1030	3390	321	2940	32	22...	1500	15400	414	17200	67
18...	1500	4930	208	2770	82						

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	3230	---	---	4190	18	204	3390	30	275
2	3190	---	---	3470	16	150	2890	27	211
3	3310	---	---	2970	16	128	2500	24	162
4	3300	12	107	2940	16	127	2260	23	140
5	3210	12	104	2770	16	120	2070	22	123
6	3100	12	100	2530	15	102	2010	22	119
7	2870	12	93	2320	12	75	1950	22	116
8	2640	12	86	2090	10	56	1730	22	103
9	2620	12	85	1920	8	41	1580	19	81
10	3130	15	127	1840	8	40	1360	18	66
11	3300	14	125	1690	10	46	1570	21	93
12	3050	12	99	1520	10	41	1850	26	130
13	2880	10	78	1540	11	46	1800	19	92
14	3250	16	142	1750	11	52	1560	13	55
15	4100	19	214	2090	11	62	1360	8	29
16	4110	13	144	1840	11	55	1140	6	18
17	4180	14	158	1620	11	48	1060	6	17
18	3930	14	149	1430	11	42	1080	8	23
19	3540	14	134	1390	11	41	902	7	17
20	3100	12	100	1370	10	37	881	7	17
21	2800	11	83	1290	10	35	750	7	14
22	2570	10	69	1180	10	32	803	7	15
23	2380	9	58	1220	14	46	774	7	15
24	2180	9	53	2390	30	224	669	7	13
25	2030	9	49	7340	145	2900	685	6	11
26	2030	10	58	9180	132	3270	672	6	11
27	3110	18	150	8140	95	2090	652	11	19
28	3860	20	208	7240	74	1440	706	11	21
29	4970	36	479	6750	62	1130	395	6	6.4
30	4770	25	322	5090	38	522	673	7	13
31	---	---	---	4030	33	359	---	---	---
TOTAL	96740	---	3574	97130	---	13561	41722	---	2025.4
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST			SEPTEMBER		
1	511	10	14	433	18	21	620	8	13
2	706	12	23	506	18	25	539	8	12
3	747	13	26	419	17	19	499	8	11
4	737	11	22	437	16	19	506	8	11
5	678	10	18	413	16	18	479	8	10
6	554	9	13	468	16	20	785	36	96
7	561	8	12	451	15	18	1740	37	170
8	526	8	11	288	12	9.3	2310	33	206
9	498	7	9.4	330	13	12	1970	24	128
10	436	6	7.1	339	11	10	1460	18	71
11	486	6	7.9	475	18	23	1120	15	45
12	428	6	6.9	714	20	39	891	11	26
13	446	6	7.2	1170	26	82	671	9	16
14	364	6	5.9	987	22	59	466	8	10
15	475	5	6.4	911	19	47	627	7	12
16	425	5	5.7	723	16	31	657	7	12
17	416	4	4.5	590	13	21	687	8	15
18	523	7	9.9	534	15	22	575	8	12
19	747	12	24	653	15	26	602	9	15
20	742	14	28	686	15	28	496	9	12
21	641	15	26	664	14	25	606	12	20
22	434	14	16	524	14	20	1320	18	70
23	478	14	18	528	13	19	2100	26	147
24	683	17	31	443	13	16	1840	16	79
25	586	17	27	478	12	15	1380	18	67
26	418	15	17	460	10	12	1220	26	86
27	559	16	24	623	9	15	1000	16	43
28	552	16	24	550	7	10	938	14	35
29	575	17	26	617	9	15	1070	10	29
30	599	17	27	594	9	14	1520	18	73
31	465	18	23	637	9	15	---	---	---
TOTAL	16996	---	520.9	17645	---	725.3	30694	---	1552

HOUSATONIC RIVER BASIN

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01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1630	25	110	1110	7	21	2690	11	80
2	2500	31	209	1080	8	23	2300	10	62
3	3180	52	446	1810	23	112	2060	8	44
4	4000	70	756	2760	14	104	1820	7	34
5	3980	53	570	2470	13	87	1750	7	33
6	3980	44	473	2090	12	68	1730	7	33
7	3470	34	319	1780	8	38	2060	6	33
8	2820	25	190	1590	8	34	2160	5	29
9	2490	17	114	1460	8	32	1900	4	21
10	2590	15	105	1570	9	38	1710	3	14
11	2690	12	87	2030	11	60	1550	3	13
12	2630	12	85	2140	10	58	1540	3	12
13	2640	12	86	2060	9	50	1530	2	8.3
14	2480	12	80	1930	9	47	1550	2	8.4
15	2240	12	73	1890	9	46	1460	2	7.9
16	2030	12	66	1790	8	39	1400	2	7.6
17	1810	12	59	1640	7	31	1630	2	8.8
18	1670	12	54	1520	6	25	1570	3	13
19	1510	11	45	1580	5	21	1290	2	7.0
20	1400	10	38	1410	5	19	1400	2	7.6
21	1340	9	33	1450	5	20	1300	2	7.0
22	1350	8	29	1320	5	18	1300	2	7.0
23	1280	7	24	1310	6	21	1360	2	7.3
24	1260	7	24	1320	6	21	1420	2	7.7
25	1250	8	27	1290	6	21	2250	17	103
26	1250	7	24	1840	16	79	3250	11	97
27	1190	8	26	3930	46	488	3190	9	78
28	1090	6	18	4240	33	378	2780	3	23
29	1220	6	20	3770	21	214	2220	2	12
30	1130	7	21	3130	13	110	2000	2	11
31	1120	6	18	---	---	---	1860	2	10
TOTAL	65220	---	4229	59310	---	2323	58030	---	839.6
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	1690	2	9.1	844	3	6.8	500	7	9.5
2	1620	2	8.7	667	3	5.4	455	6	7.4
3	1540	2	8.3	596	3	4.8	400	6	6.5
4	1380	2	7.5	570	3	4.6	541	6	8.8
5	1280	2	6.9	702	2	3.8	415	6	6.7
6	1200	2	6.5	581	2	3.1	426	5	5.8
7	1160	2	6.3	664	2	3.6	530	4	5.7
8	1150	2	6.2	438	2	2.4	969	11	29
9	1110	2	6.0	619	2	3.3	1650	36	160
10	1110	2	6.0	619	2	3.3	1350	14	51
11	1010	3	8.2	449	2	2.4	2000	29	157
12	2750	44	327	588	2	3.2	1890	43	219
13	2160	15	87	469	4	5.1	1460	15	59
14	1900	9	46	474	4	5.1	1160	10	31
15	1760	7	33	594	4	6.4	1100	7	21
16	1560	6	25	461	5	6.2	887	5	12
17	1470	6	24	612	6	9.9	851	5	11
18	1400	5	19	635	7	12	3790	189	1930
19	1300	5	18	591	8	13	5300	115	1650
20	1310	5	18	572	8	12	4150	58	650
21	1230	5	17	609	8	13	4460	46	554
22	1140	5	15	547	8	12	14400	419	16300
23	1130	5	15	659	8	14	11200	145	4380
24	1040	4	11	577	8	12	9470	110	2810
25	887	4	9.6	671	8	14	7940	77	1650
26	811	4	8.8	668	8	14	6240	51	859
27	921	4	9.9	584	8	13	4990	42	566
28	883	4	9.5	510	8	11	4180	28	316
29	849	4	9.2	611	8	13	3840	17	176
30	737	4	8.0	---	---	---	4460	26	313
31	723	3	5.9	---	---	---	4740	28	358
TOTAL	40211	---	795.6	17181	---	232.4	105744	---	33312.4

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	4440	22	264	2500	12	81	608	8	13
2	3920	19	201	2240	12	73	695	8	15
3	3480	16	150	1950	12	63	666	8	14
4	3790	22	225	1780	11	53	759	8	16
5	4430	34	407	1670	11	50	719	9	17
6	4060	24	263	1460	10	39	563	9	14
7	3640	18	177	1470	10	40	833	9	20
8	3250	14	123	1560	10	42	826	8	18
9	3520	20	190	1650	9	40	761	7	14
10	9190	119	2950	1440	8	31	743	7	14
11	9360	132	3340	1370	8	30	679	8	15
12	8330	94	2110	1450	8	31	692	7	13
13	7180	71	1380	1370	8	30	635	5	8.6
14	5880	45	714	1480	9	36	549	4	5.9
15	5750	42	652	1590	9	39	542	4	5.9
16	5100	29	399	1510	9	37	745	4	8.0
17	4420	22	263	1340	10	36	680	7	13
18	3860	18	188	1280	10	35	733	7	14
19	3400	16	147	1120	10	30	525	8	11
20	3110	15	126	1190	10	32	553	8	12
21	2810	12	91	1300	10	35	561	6	9.1
22	2510	11	75	1310	10	35	355	6	5.8
23	2260	9	55	1240	10	33	364	7	6.9
24	2200	8	48	1080	9	26	602	5	8.1
25	2100	8	45	1040	9	25	435	5	5.9
26	2100	9	51	780	10	21	265	7	5.0
27	2000	10	54	880	10	24	446	8	9.6
28	2300	16	99	603	9	15	396	8	8.6
29	2500	23	155	673	8	15	564	9	14
30	2800	13	98	712	9	17	1450	30	117
31	---	---	---	612	8	13	---	---	---
TOTAL	123690	---	15040	41650	---	1107	18944	---	451.4
JULY			AUGUST			SEPTEMBER			
1	1750	27	128	370	7	7.0	255	3	2.1
2	1310	18	64	318	6	5.2	341	3	2.8
3	1100	12	36	409	5	5.5	209	3	1.7
4	816	10	22	604	5	8.2	245	3	2.0
5	653	9	16	353	6	5.7	264	3	2.1
6	959	9	23	419	6	6.8	268	3	2.2
7	620	11	18	439	6	7.1	254	4	2.7
8	583	10	16	430	6	7.0	290	4	3.1
9	614	10	17	411	6	6.7	257	3	2.1
10	544	10	15	336	7	6.4	270	3	2.2
11	541	9	13	297	7	5.6	250	4	2.7
12	506	9	12	342	7	6.5	73	5	.99
13	469	9	11	378	7	7.1	73	5	.99
14	587	9	14	376	7	7.1	73	4	.79
15	468	8	10	443	7	8.4	73	3	.59
16	463	7	8.8	391	7	7.4	73	3	.59
17	406	7	7.7	276	6	4.5	374	4	4.0
18	387	7	7.3	311	6	5.0	401	3	3.2
19	390	7	7.4	645	7	12	507	3	4.1
20	329	7	6.2	216	6	3.5	291	4	3.1
21	263	6	4.3	302	6	4.9	261	5	3.5
22	394	6	6.4	356	6	5.8	417	6	6.8
23	518	5	7.0	323	5	4.4	336	7	6.4
24	538	5	7.3	237	5	3.2	258	7	4.9
25	446	5	6.0	273	5	3.7	288	7	5.4
26	386	6	6.3	234	5	3.2	298	7	5.6
27	421	6	6.8	265	5	3.6	119	7	2.2
28	288	5	3.9	394	5	5.3	177	6	2.9
29	361	6	5.8	229	5	3.1	296	6	4.8
30	445	7	8.4	280	4	3.0	332	6	5.4
31	294	8	6.4	196	4	2.1	---	---	---
TOTAL	17849	---	521.0	10853	---	175.0	7623	---	91.95
YEAR	566305		59118.35						

HOUSATONIC RIVER BASIN

267

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT

LOCATION.--Lat 41°35'35", long 73°27'00", Litchfield County, Hydrologic Unit 01100005, at Boardman Bridge, 2.3 mi (3.7 km) northwest of New Milford, 6.9 mi (11.1 km) downstream from Tenmile River, 1.9 mi (3.1 km) upstream from Aspetuck River and 4.7 mi (7.6 km) upstream from Still River.

DRAINAGE AREA.--1,022 mi² (2,647 km²).

PERIOD OF RECORD.--Water years 1962, 1963, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01200500, 5.4 mi (8.7 km) upstream, and adjusting its discharge by multiplying by a factor of 1.03, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1330	2690	210	7.5	9.0	8.5	20	8.0	11.6	99	10000	--
NOV												
14...	1315	1650	229	7.8	8.0	8.0	10	5.0	12.7	107	150	--
DEC												
12...	1315	1360	285	7.4	19.0	4.5	10	3.0	12.5	96	2900	--
JAN												
16...	1430	1220	235	7.4	6.0	1.5	5	3.0	15.0	107	48	K4
FEB												
13...	1345	177	330	8.2	4.0	.5	5	2.0	12.0	84	120	<1
MAR												
19...	1340	5150	165	7.1	9.0	3.5	30	30	13.6	102	840	580
APR												
16...	1400	5200	177	7.2	8.0	9.0	5	5.0	11.9	102	460	72
MAY												
14...	1400	1300	250	8.5	19.5	16.0	4	2.0	11.3	114	260	24
JUN												
11...	1345	873	310	8.1	17.5	16.0	0	5.0	12.4	125	92	40
JUL												
09...	1300	389	255	8.5	26.0	23.0	8	3.0	10.6	122	320	44
AUG												
13...	1240	315	295	8.2	26.0	24.0	5	1.0	9.2	108	8500	44
SEP												
03...	1310	76	350	8.2	26.0	24.0	1	1.0	10.2	120	320	28

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	1000	860	100	20	26	8.6	80	10	9.8	5.2	126	.17
NOV												
14...	80	28	--	--	--	--	--	--	9.6	--	136	.19
DEC												
12...	32	K4	--	--	--	--	--	--	11	--	147	.20
JAN												
16...	--	K17	110	--	27	10	91	15	9.4	4.3	135	.18
FEB												
13...	--	K6	--	--	--	--	--	--	14	--	174	.24
MAR												
19...	--	10000	--	--	--	--	--	--	8.9	--	93	.13
APR												
16...	--	40	87	17	22	7.9	70	11	8.1	4.0	109	.15
MAY												
14...	--	K4	--	--	--	--	--	--	11	--	157	.21
JUN												
11...	--	20	--	--	--	--	--	--	12	--	179	.24
JUL												
09...	--	K3	120	8	29	11	110	12	12	1.6	157	.21
AUG												
13...	--	36	--	--	--	--	--	--	15	--	170	.23
SEP												
03...	--	19	--	--	--	--	--	--	17	--	190	.26

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 12...	915	140	--	--	.37	.01	.01	.50	.51	.88	3.9
NOV 14...	606	136	.37	.00	.37	.00	.00	.24	.24	.61	2.7
DEC 12...	540	158	.45	.00	.45	.00	.00	.27	.27	.72	3.2
JAN 16...	445	141	.58	.02	.60	.04	.05	.26	.30	.90	4.0
FEB 13...	83.2	183	.67	.02	.69	.34	.41	.00	.31	1.0	4.4
MAR 19...	1290	94	.54	.02	.56	.24	.29	.68	.92	1.5	6.6
APR 16...	1530	161	--	--	.43	.05	.06	.21	.26	.69	3.1
MAY 14...	551	153	.26	.01	.27	.04	.05	.34	.38	.65	2.9
JUN 11...	422	196	.73	.02	.75	.04	.05	.39	.43	1.2	5.2
JUL 09...	165	147	--	--	.07	.12	.15	.53	.65	.72	3.2
AUG 13...	145	184	.11	.01	.12	.04	.05	.11	.15	.27	1.2
SEP 03...	39.0	202	.07	.01	.08	.00	.00	.38	.38	.46	2.0

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	.040	.12	2	60	8	0	3.8	.00	.000	.000
NOV 14...	.030	.09	3	--	--	0	3.9	--	--	--
DEC 12...	.030	.09	2	--	--	0	4.2	--	--	--
JAN 16...	.040	.12	2	30	10	10	3.8	.00	2.98	.000
FEB 13...	.040	.12	4	--	--	10	1.9	--	--	--
MAR 19...	.120	.37	3	--	--	10	6.8	--	--	--
APR 16...	.060	.18	3	30	9	50	4.4	.90	3.11	.000
MAY 14...	.020	.06	2	--	--	0	3.1	--	--	--
JUN 11...	.050	.15	1	--	--	0	3.6	--	--	--
JUL 09...	.050	.15	4	20	6	1	4.3	.00	46.7	5.99
AUG 13...	.030	.09	3	--	--	0	6.1	--	--	--
SEP 03...	.020	.06	3	--	--	0	3.5	--	--	--

HOUSATONIC RIVER BASIN

269

01201485 STILL RIVER AT BROOKFIELD CENTER, CT

LOCATION.--Lat 41°27'23", long 73°23'47", Fairfield County, Hydrologic Unit 01100005, at bridge on State Highway 133 at Brookfield Junction, 0.8 mi (1.3 km) southwest of Brookfield Center, 4.4 mi (7.7 km) upstream from Limekiln Brook, and 8.0 mi (12.9 km) upstream from Housatonic River.

DRAINAGE AREA.--60.6 mi² (157.0 km²).

PERIOD OF RECORD.--Water years 1971, 1972, 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01201510, 7.1 mi (11.4 km) downstream, and adjusting its discharge by multiplying by a factor of 0.87, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
12...	1510	122	370	7.0	13.0	9.0	20	15	9.3	80	36000	--
NOV												
14...	1510	125	345	6.3	7.5	9.0	15	5.0	9.8	84	1600	--
DEC												
12...	1640	87	340	6.8	12.0	6.5	20	7.0	11.8	94	2000	--
JAN												
16...	1620	115	350	7.0	5.0	4.0	5	5.0	11.8	89	170	K8
FEB												
13...	1640	36	450	7.4	4.0	3.0	5	4.0	12.0	89	240	K8
MAR												
19...	1515	313	245	6.9	11.5	5.0	5	13	12.0	94	20	20
APR												
16...	1530	516	235	6.9	7.5	11.0	5	4.0	11.3	102	1100	64
MAY												
14...	1515	150	322	7.1	21.0	18.0	7	4.0	9.0	106	820	96
JUN												
11...	1615	61	420	7.5	17.0	17.0	10	4.0	7.4	76	1700	130
JUL												
09...	1445	193	520	7.1	29.0	23.0	7	4.0	6.1	70	12000	340
AUG												
13...	1440	24	480	7.4	28.0	25.0	7	1.0	7.6	90	20000	460
SEP												
03...	1435	40	340	7.4	25.0	24.0	10	2.0	7.9	93	300000	68000

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
12...	1100	200	120	32	33	10	92	21	26	9.3	200	.27
NOV												
14...	820	110	--	--	--	--	--	--	24	--	192	.26
DEC												
12...	60	36	--	--	--	--	--	--	26	--	197	.27
JAN												
16...	--	84	120	--	30	9.7	80	28	26	8.3	193	.26
FEB												
13...	--	K10	--	--	--	--	--	--	43	--	242	.33
MAR												
19...	--	K16	--	--	--	--	--	--	23	--	157	.21
APR												
16...	--	K12	85	24	22	7.3	61	20	17	6.5	189	.26
MAY												
14...	--	60	--	--	--	--	--	--	25	--	184	.25
JUN												
11...	--	32	--	--	--	--	--	--	35	--	249	.34
JUL												
09...	--	100	150	38	38	13	110	63	48	7.6	322	.44
AUG												
13...	--	72	--	--	--	--	--	--	51	--	294	.40
SEP												
03...	--	1000	--	--	--	--	--	--	29	--	218	.30

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 12...	65.9	219	--	--	1.3	.88	1.1	.92	1.8	3.1	14
NOV 14...	64.8	213	1.1	.15	1.2	.70	.85	.60	1.3	2.5	11
DEC 12...	46.3	230	.93	.07	1.0	1.5	1.8	.70	2.2	3.2	14
JAN 16...	59.9	200	1.2	.04	1.2	1.3	1.6	.60	1.9	3.1	14
FEB 13...	23.5	265	1.2	.05	1.2	4.0	4.8	.00	4.0	5.2	23
MAR 19...	133	163	.26	.01	.27	.18	.22	1.3	1.5	1.8	7.8
APR 16...	263	182	--	--	.87	.28	.34	.20	.48	1.4	6.0
MAY 14...	74.5	221	1.1	.13	1.2	.86	1.0	.44	1.3	2.5	11
JUN 11...	41.0	274	1.8	.25	2.0	1.6	1.9	.60	2.2	4.2	19
JUL 09...	168	328	--	--	2.9	1.0	1.2	.40	1.4	4.3	19
AUG 13...	19.1	324	2.1	.31	2.4	2.4	2.9	.40	2.8	5.2	23
SEP 03...	23.5	217	1.5	.18	1.7	2.2	2.7	.30	2.5	4.2	19

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 12...	.320	.98	11	130	80	9	8.4	.10	.000	.000
NOV 14...	.360	1.1	12	--	--	10	7.8	--	--	--
DEC 12...	.400	1.2	11	--	--	10	8.2	--	--	--
JAN 16...	.600	1.8	3	80	80	10	8.0	.10	.000	.000
FEB 13...	.810	2.5	36	--	--	10	8.1	--	--	--
MAR 19...	.320	.98	9	--	--	20	6.3	--	--	--
APR 16...	.150	.46	8	80	40	20	3.6	.10	3.98	.000
MAY 14...	.460	1.4	16	--	--	10	9.3	--	--	--
JUN 11...	.480	1.5	15	--	--	10	5.5	--	--	--
JUL 09...	.380	1.2	9	40	160	8	5.9	.10	2.99	.000
AUG 13...	.740	2.3	12	--	--	10	8.2	--	--	--
SEP 03...	.050	.15	16	--	--	10	13	--	--	--

HOUSATONIC RIVER BASIN

271

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CT

LOCATION.--Lat 41°28'47", long 73°21'04", on Fairfield-Litchfield County line, Hydrologic Unit 01110005, at bridge on State Highway 133, 2.1 mi (3.4 km) northeast of Brookfield Center, 2.4 mi (3.9 km) upstream from Shepaug River, 2.5 mi (4.0 km) upstream from Shepaug Dam on the Housatonic River, and 6.8 mi (10.9 km) downstream from Still River.

DRAINAGE AREA.--1,214 mi² (3,144 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 11...	1035	3.0	220	7.7	3.5	14.0	15	5.0	8.2	88	K14	--
NOV 14...	1630	3.0	215	6.7	7.0	9.5	5	4.0	10.6	93	120	--
DEC 12...	1535	3.0	160	6.8	12.5	4.0	10	3.0	13.2	100	1200	--
JAN 17...	0905	3.0	210	6.9	1.5	.5	5	6.0	14.4	100	580	120
FEB 14...	0845	3.0	205	7.5	2.0	4.0	5	1.0	10.0	76	K5	<1
MAR 19...	1550	3.0	230	7.2	11.0	5.0	5	4.0	11.3	88	140	160
APR 17...	1330	3.0	172	7.2	13.0	10.0	5	5.0	11.5	102	3300	110
MAY 14...	1535	3.0	212	8.4	20.5	16.0	6	6.0	12.6	127	34	K3
JUN 11...	1530	3.0	245	7.9	17.0	20.0	5	2.0	6.4	70	K4	K1
JUL 10...	1130	3.0	242	9.0	26.0	24.0	9	3.0	14.4	169	660	<1
AUG 13...	1405	3.0	250	8.8	28.0	28.0	5	4.0	11.4	134	32	<1
SEP 03...	1445	3.0	240	8.6	25.0	25.0	3	4.0	12.2	145	130	<1

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 11...	K6	30	92	13	23	8.3	79	13	12	1.6	122	.17
NOV 14...	64	40	--	--	--	--	--	--	11	--	121	.16
DEC 12...	26	K7	--	--	--	--	--	--	9.4	--	100	.14
JAN 17...	--	540	93	--	23	8.6	75	15	10	4.6	128	.17
FEB 14...	--	<1	--	--	--	--	--	--	12	--	113	.15
MAR 19...	--	1800	--	--	--	--	--	--	15	--	--	--
APR 17...	--	92	82	13	21	7.2	69	11	8.4	4.3	106	.14
MAY 14...	--	K1	--	--	--	--	--	--	11	--	134	.18
JUN 11...	--	<1	--	--	--	--	--	--	13	--	144	.20
JUL 10...	--	20	110	8	25	11	100	15	16	1.4	162	.22
AUG 13...	--	K1	--	--	--	--	--	--	16	--	139	.19
SEP 03...	--	K3	--	--	--	--	--	--	17	--	148	.20

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 11...	137	--	--	.21	.04	.05	.78	.82	1.0	4.6
NOV 14...	134	.32	.00	.32	.06	.07	.32	.38	.70	3.1
DEC 12...	107	.33	.00	.33	.08	.10	.29	.37	.70	3.1
JAN 17...	139	.59	.01	.60	.16	.19	.23	.39	.99	4.4
FEB 14...	110	.40	.01	.41	.09	.11	.41	.50	.91	4.0
MAR 19...	157	--	--	--	--	--	--	--	--	--
APR 17...	138	--	--	.47	.00	.00	.28	.28	.75	3.3
MAY 14...	138	.10	.01	.11	.13	.16	.22	.35	.46	2.0
JUN 11...	150	.22	.03	.25	.23	.28	.38	.61	.86	3.8
JUL 10...	145	--	--	.00	.37	.45	.93	1.3	1.3	5.8
AUG 13...	148	.02	.00	.02	.03	.04	.49	.52	.54	2.4
SEP 03...	156	.00	.00	.00	.02	.02	.67	.69	.69	3.1

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 11...	.050	.15	3	30	1	2	7.0	.00	14.9	.000
NOV 14...	.050	.15	4	--	--	10	3.3	--	--	--
DEC 12...	.040	.12	2	--	--	0	4.1	--	--	--
JAN 17...	.060	.18	16	40	20	10	5.4	.01	.000	.000
FEB 14...	.050	.15	3	--	--	10	7.6	--	--	--
MAR 19...	--	--	8	--	--	0	5.1	--	--	--
APR 17...	.040	.12	3	40	30	10	3.6	.10	1.13	.000
MAY 14...	.060	.18	3	--	--	0	.0	--	--	--
JUN 11...	.040	.12	4	--	--	10	2.5	--	--	--
JUL 10...	.070	.21	4	20	3	0	5.5	.00	110	.000
AUG 13...	.060	.18	5	--	--	0	3.2	--	--	--
SEP 03...	.680	2.1	3	--	--	0	5.0	--	--	--

HOUSATONIC RIVER BASIN

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01201930 MARSHEPAUG RIVER NEAR MILTON, CT

LOCATION.--Lat 41°47'22", long 73°15'34", Litchfield County, Hydrologic Unit 01100005, on left bank downstream from bridge on Maple Street, 0.7 mi (1.1 km) downstream from Woodridge Lake, and 1.5 mi (2.4 km) northeast of Milton.

DRAINAGE AREA.--9.24 mi² (23.93 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,083.95 ft (330.388 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Woodridge Lake, a real estate lake, upstream.

AVERAGE DISCHARGE.--13 years, 20.9 ft³/s (0.592 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 474 ft³/s (13.4 m³/s) Dec. 22, 1973, gage height, 4.90 ft (1.494 m); minimum, 0.22 ft³/s (0.006 m³/s) July 31, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 243 ft³/s (6.88 m³/s) Apr. 10, gage height, 3.53 ft (1.076 m); minimum, 0.26 ft³/s (0.007 m³/s) July 20, gage height, 0.42 ft (0.128 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	43	32	26	3.5	1.8	43	28	1.3	13	2.1	.63
2	51	42	32	25	3.2	1.4	40	25	1.3	10	2.2	.69
3	52	48	31	24	3.0	1.3	34	23	1.2	7.0	3.7	.77
4	53	43	31	24	2.9	1.3	46	19	1.2	5.2	2.5	13
5	54	41	30	23	2.7	1.3	51	16	1.2	4.0	1.7	21
6	56	40	31	22	2.6	1.3	44	15	1.2	7.4	1.2	20
7	55	40	32	22	2.5	1.3	37	14	1.4	6.4	1.0	20
8	50	39	31	21	2.4	2.3	34	17	1.7	5.4	.78	19
9	47	39	30	21	2.5	1.7	59	15	2.0	4.4	.89	15
10	47	41	29	21	3.0	1.1	227	13	1.8	3.5	.67	5.5
11	48	40	29	24	2.3	7.5	183	11	1.7	3.0	.81	5.4
12	47	40	29	28	2.2	1.3	106	13	1.6	2.5	1.3	5.5
13	45	38	29	24	2.2	.99	67	13	1.5	2.1	.87	5.5
14	50	37	28	18	2.4	1.0	54	13	1.4	1.8	.70	5.6
15	65	37	28	14	3.0	1.0	61	11	1.6	1.6	.86	4.6
16	46	36	28	14	3.5	1.0	57	9.0	1.7	1.4	1.5	1.1
17	35	35	27	12	2.5	3.4	47	7.9	1.9	1.3	.89	1.5
18	30	35	26	10	2.2	17	38	7.8	1.8	1.3	.65	2.1
19	30	34	26	9.6	2.1	2.7	31	8.8	1.7	.58	.60	1.2
20	32	34	25	10	2.0	2.2	26	8.5	1.5	.50	1.1	1.1
21	28	33	25	10	2.0	29	25	9.7	1.5	.53	1.4	1.1
22	27	33	24	10	2.0	22	21	11	1.4	.98	.93	1.1
23	25	32	24	8.0	2.5	93	18	9.2	1.3	3.7	.67	1.0
24	26	32	23	6.6	2.2	118	17	6.9	1.3	3.1	.58	1.1
25	25	31	28	6.0	2.0	101	16	1.9	.91	.94	.56	1.1
26	25	40	32	5.6	2.0	72	16	2.1	.66	.93	.56	1.2
27	25	36	28	5.3	2.3	58	16	1.6	.92	1.9	.54	1.1
28	26	33	27	4.8	2.0	48	26	1.3	.60	1.8	.56	1.7
29	28	33	27	4.5	2.0	43	33	1.3	3.8	2.6	.60	3.3
30	34	32	26	4.4	---	49	30	1.3	20	2.4	.62	3.2
31	44	---	26	4.2	---	49	---	1.3	---	2.1	.67	---
TOTAL	1256	1117	874	462.0	71.7	734.89	1503	335.6	63.09	103.36	33.71	165.09
MEAN	40.5	37.2	28.2	14.9	2.47	23.7	50.1	10.8	2.10	3.33	1.09	5.50
MAX	65	48	32	28	3.5	118	227	28	20	13	3.7	21
MIN	25	31	23	4.2	2.0	.99	16	1.3	.60	.50	.54	.63
CAL YR 1979 TOTAL	9784.70			MEAN 26.8	MAX 238	MIN 2.9						
WTR YR 1980 TOTAL	6719.44			MEAN 18.4	MAX 227	MIN .50						

HOUSATONIC RIVER BASIN

01203000 SHEPAUG RIVER NEAR ROXBURY, CT

LOCATION.--Lat 41°32'59", long 73°19'49", Litchfield County, Hydrologic Unit 01100005, on right bank at downstream side of Wellers Bridge 0.5 mi (0.8 km) south of Roxbury Station, 1.2 mi (1.9 km) southwest of village of Roxbury, and 2.4 mi (3.9 km) upstream from Jacks Brook.

DRAINAGE AREA.--132 mi² (343 km²).

PERIOD OF RECORD.--Water years 1953-54, 1959, 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1958 to September 1959.

REMARKS.--Records of daily discharge from October 1930 to September 1971 in reports of the U.S. Geological Survey. Occasional low-flow measurements and annual maximum, October 1972 to current year (see pages).

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 25.0°C Aug. 17, 1959; minimum, 0.0°C Dec. 14, 1958.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	0930	338	110	6.6	2.0	8.0	30	3.0	11.6	97	580	--
NOV												
15...	1515	307	98	6.9	8.0	6.0	20	3.0	13.2	106	84	--
DEC												
12...	1445	232	108	7.0	17.5	4.0	20	2.0	13.0	98	88	--
JAN												
17...	1020	258	99	6.9	7.0	.5	10	2.0	14.4	100	100	K8
FEB												
13...	1530	102	126	7.8	4.0	.5	5	1.0	12.0	84	K6	<1
MAR												
20...	1330	490	86	7.2	16.5	4.5	5	6.0	13.2	101	24	22
APR												
17...	1240	740	77	7.0	13.0	7.0	10	1.0	13.0	106	76	K7
MAY												
15...	1420	175	95	8.5	18.0	15.5	7	4.0	11.4	113	5100	20
JUN												
12...	1400	45	106	7.4	22.0	17.0	15	3.0	10.8	111	340	25
JUL												
10...	1000	42	108	7.3	28.0	21.0	9	2.0	11.1	123	2900	56
AUG												
14...	1330	23	115	7.7	21.0	22.0	7	1.0	9.6	109	840	52
SEP												
04...	0930	10	128	7.1	31.0	18.0	3	1.0	8.8	93	640	52

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
11...	100	250	38	15	9.3	3.5	23	8.6	8.0	4.1	64	.09
NOV												
15...	60	24	--	--	--	--	--	--	7.2	--	60	.08
DEC												
12...	K8	K8	--	--	--	--	--	--	7.4	--	60	.08
JAN												
17...	--	31	34	--	8.2	3.2	30	11	7.1	5.2	62	.08
FEB												
13...	--	K3	--	--	--	--	--	--	11	--	71	.10
MAR												
20...	--	48	--	--	--	--	--	--	6.7	--	47	.06
APR												
17...	--	K3	27	0	6.6	2.5	28	9.2	6.1	4.0	46	.06
MAY												
15...	--	K8	--	--	--	--	--	--	7.1	--	63	.09
JUN												
12...	--	<1	--	--	--	--	--	--	8.5	--	67	.09
JUL												
10...	--	54	41	11	10	3.8	30	9.1	9.4	1.7	77	.10
AUG												
14...	--	26	--	--	--	--	--	--	9.6	--	81	.11
SEP												
04...	--	120	--	--	--	--	--	--	10	--	78	.11

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

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01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT											
11...	58.4	80	--	--	.25	.02	.02	.62	.64	.89	3.9
NOV											
15...	49.7	67	.16	.00	.16	.00	.00	.30	.30	.46	2.0
DEC											
12...	37.6	65	.22	.00	.22	.01	.01	.23	.24	.46	2.0
JAN											
17...	43.2	68	.37	.01	.38	.03	.04	.13	.16	.54	2.4
FEB											
13...	19.6	74	.29	.01	.30	.02	.02	.13	.15	.45	2.0
MAR											
20...	62.2	56	.31	.01	.32	.13	.16	.29	.42	.74	3.3
APR											
17...	91.9	82	--	--	.28	.00	.00	.19	.19	.47	2.1
MAY											
15...	29.8	71	.04	.00	.04	.05	.06	.18	.23	.27	1.2
JUN											
12...	8.14	73	.35	.00	.35	.04	.05	.40	.44	.79	3.5
JUL											
10...	8.73	70	--	--	.10	.07	.08	.42	.49	.59	2.6
AUG											
14...	5.03	80	.03	.01	.04	.01	.01	.23	.24	.28	1.2
SEP											
04...	2.11	82	.01	.01	.02	.01	.01	.19	.20	.22	.97

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
11...	.030	.09	8	100	9	6	10	.00	.000	.000
NOV										
15...	.030	.09	3	--	--	0	4.8	--	--	--
DEC										
12...	.020	.06	2	--	--	0	4.1	--	--	--
JAN										
17...	.020	.06	2	40	10	10	5.0	.00	1.54	.000
FEB										
13...	.030	.09	3	--	--	10	4.3	--	--	--
MAR										
20...	.050	.15	2	--	--	10	4.8	--	--	--
APR										
17...	.030	.09	2	50	8	10	7.5	.10	6.44	.000
MAY										
15...	.020	.06	5	--	--	0	5.3	--	--	--
JUN										
12...	.030	.09	2	--	--	10	2.8	--	--	--
JUL										
10...	.050	.15	4	80	20	6	3.8	.00	5.23	.400
AUG										
14...	.040	.12	3	--	--	10	7.0	--	--	--
SEP										
04...	.090	.28	2	--	--	0	3.8	--	--	--

01204000 POMPERAUG RIVER AT SOUTHBURY, CT

LOCATION.--Lat 41°28'50", long 73°13'30", New Haven County, Hydrologic Unit 01100005, on right bank 200 ft (60 m) upstream from bridge on Poverty Road, 800 ft (250 m) downstream from Bullet Hill Brook, 0.6 mi (1.0 km) west of Southbury, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

PERIOD OF RECORD.--June 1932 to current year.

REVISED RECORDS.--WSP 781: Drainage area. WSP 851: 1934(M), 1936(M). WSP 1201: 1933-34, 1935(M), 1937(M).

GAGE.--Water-stage recorder. Datum of gage is 165.60 ft (50.475 m), National Geodetic Vertical Datum, (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown. Records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn. Chemical analyses available for water years 1961 (WSP 1881), 1965-70 (WSP 1961, 1991, 2011, 2091, 2143, 2151), 1971-74 (WRDC 1971-74), 1975 (WDR CT 75-1). Water temperatures available for water years 1961 (WSP 1881), 1967 (WSP 2011).

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1960 to September 1969).--48 years, 128 ft³/s (3.625 m³/s), 23.18 in/yr (589 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s (833 m³/s) Aug. 19, 1955, gage height, 21.8 ft (6.64 m), from floodmarks, from rating curve extended above 1,200 ft³/s (34.0 m³/s) by computation of peak flow over dam at gage height 16.0 ft (4.88 m) and by slope-area measurement of peak flow; minimum, 2.5 ft³/s (0.071 m³/s) Aug. 30, 31, 1966; minimum gage height, 2.31 ft (0.704 m) Aug. 10, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

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. 18	0700	1680	47.6	7.18	2.188	Apr. 10	0700	4080	116	10.15	3.094
22	0730	*4780	135	*10.92	3.328						

Minimum discharge, 7.7 ft³/s (0.218 m³/s) Sept. 11-13, gage height, 2.24 ft (0.683 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	57	161	127	49	40	360	191	60	72	23	18
2	141	56	147	123	47	37	286	169	64	51	22	14
3	141	262	132	115	45	35	252	152	66	51	46	15
4	149	192	125	96	45	34	415	136	56	39	30	14
5	110	129	120	99	43	37	397	123	46	34	24	12
6	252	110	120	84	42	43	270	115	40	110	38	12
7	125	101	224	85	42	44	229	112	86	48	37	11
8	96	95	153	89	43	80	212	241	80	35	26	11
9	95	88	123	81	43	99	363	180	68	31	22	9.6
10	147	101	118	71	42	70	2160	143	66	28	19	9.6
11	165	110	113	104	41	537	765	129	61	26	18	8.6
12	174	295	108	404	41	163	490	152	51	24	26	8.9
13	183	177	137	174	40	104	397	139	44	22	22	8.9
14	130	163	153	149	39	107	357	132	39	20	18	11
15	111	135	120	147	41	99	622	110	37	19	19	12
16	101	120	118	134	41	85	387	101	37	18	19	10
17	92	110	157	118	45	139	304	91	34	19	17	13
18	86	104	102	116	45	983	265	90	30	24	15	40
19	81	100	89	125	47	323	236	102	29	19	15	20
20	79	95	90	115	44	232	216	90	28	20	16	15
21	73	90	90	101	46	783	201	141	27	19	15	13
22	71	88	96	93	53	3030	178	155	26	22	14	13
23	67	88	101	99	55	877	165	108	25	90	14	12
24	71	84	113	81	66	605	160	91	23	44	13	11
25	67	82	506	75	60	596	146	79	22	28	12	10
26	60	388	337	73	58	455	141	66	21	23	12	11
27	58	548	232	71	43	360	145	60	20	21	11	9.9
28	62	292	189	68	49	307	267	55	20	19	11	9.9
29	78	222	169	64	39	295	370	52	25	33	11	10
30	63	185	159	54	---	516	231	49	229	35	11	9.6
31	58	---	139	51	---	415	---	49	---	24	24	---
TOTAL	3252	4667	4741	3386	1334	11530	10987	3603	1460	1068	620	383.0
MEAN	105	156	153	109	46.0	372	366	116	48.7	34.5	20.0	12.8
MAX	252	548	506	404	66	3030	2160	241	229	110	46	40
MIN	58	56	89	51	39	34	141	49	20	18	11	8.6
CFSM	1.40	2.08	2.04	1.45	.61	4.96	4.88	1.55	.65	.46	.27	.17
IN.	1.61	2.31	2.35	1.68	.66	5.72	5.45	1.79	.72	.53	.31	.19

CAL YR 1979 TOTAL 68705.0 MEAN 188 MAX 3600 MIN 11 CFSM 2.51 IN 34.08
WTR YR 1980 TOTAL 47031.0 MEAN 129 MAX 3030 MIN 8.6 CFSM 1.72 IN 23.33

HOUSATONIC RIVER BASIN

277

01204510 LAKE ZOAR AT RIVERSIDE, CT

LOCATION.--Lat 41°26'21", long 73°14'53", on Fairfield-New Haven County line, Hydrologic Unit 01100005, at bridge on U.S. Highway 6 and 202 at Riverside, 3.4 mi (5.5 km) southwest of Southbury, 0.3 mi (0.5 km) downstream from Pomperaug River, 3.6 mi (5.8 km) downstream from Shepaug Dam on the Housatonic River, 6.0 mi (9.7 km) downstream from Shepaug River and 6.9 mi (11.1 km) upstream from Lake Zoar Dam.

DRAINAGE AREA.--1,511 mi² (3,913 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 15...	1430	3.0	214	7.0	11.0	12.0	15	5.0	8.7	80	540	--
NOV 15...	1345	3.0	205	7.0	8.0	9.5	10	3.0	9.8	86	120	--
DEC 13...	1330	3.0	210	6.8	2.0	6.5	20	2.0	12.5	102	460	--
JAN 17...	1200	3.0	240	7.2	7.0	2.0	5	4.0	13.4	96	180	K4
FEB 14...	1510	3.0	250	7.8	6.0	4.0	5	1.0	10.5	80	23	21
MAR 20...	1225	3.0	265	7.3	15.5	3.0	5	4.0	12.4	92	48	K16
APR 17...	1105	3.0	136	7.1	6.0	10.0	5	3.0	10.8	96	270	K8
MAY 15...	1310	3.0	217	7.5	18.0	15.0	3	6.0	9.3	91	1100	K4
JUN 12...	1300	3.0	220	7.2	19.5	17.0	5	3.0	4.6	47	32	K15
JUL 10...	0820	3.0	240	7.3	27.0	21.0	6	2.0	3.8	42	96	45
AUG 14...	1230	3.0	250	7.2	28.0	23.0	5	1.0	1.1	13	130	21
SEP 04...	0810	3.0	240	7.0	23.0	22.0	5	1.0	1.5	17	20	K8

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (TONS PER AC-FT)
OCT 15...	31	39	95	19	24	8.6	76	12	12	4.3	123	.17
NOV 15...	K4	<1	--	--	--	--	--	--	11	--	115	.16
DEC 13...	53	K13	--	--	--	--	--	--	9.8	--	109	.15
JAN 17...	--	52	91	13	23	8.2	78	15	10	4.5	69	.09
FEB 14...	--	K7	--	--	--	--	--	--	13	--	138	.19
MAR 20...	--	74	--	--	--	--	--	--	18	--	189	.26
APR 17...	--	K4	63	11	16	5.5	52	10	7.3	4.3	88	.12
MAY 15...	--	K10	--	--	--	--	--	--	11	--	116	.16
JUN 12...	--	<1	--	--	--	--	--	--	11	--	120	.16
JUL 10...	--	45	99	13	25	8.9	86	13	15	2.2	145	.20
AUG 14...	--	K14	--	--	--	--	--	--	14	--	145	.20
SEP 04...	--	<1	--	--	--	--	--	--	15	--	158	.21

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01204510 LAKE ZOAR AT RIVERSIDE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN-AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 15...	132	--	--	.35	.07	.08	.34	.41	.76	3.4
NOV 15...	126	.23	.02	.25	.08	.10	.31	.39	.64	2.8
DEC 13...	118	.38	.00	.38	.10	.12	.36	.46	.84	3.7
JAN 17...	128	--	--	.55	.08	.10	.52	.60	1.2	5.1
FEB 14...	140	.43	.02	.45	.16	.19	.26	.42	.87	3.9
MAR 20...	157	.75	.02	.77	.33	.40	.46	.79	1.6	6.9
APR 17...	111	--	--	.40	.08	.10	.11	.19	.59	2.6
MAY 15...	125	.22	.01	.23	.13	.16	.20	.33	.56	2.5
JUN 12...	136	.19	.03	.22	.25	.30	.32	.57	.79	3.5
JUL 10...	147	--	--	.48	.22	.27	.23	.45	.93	4.1
AUG 14...	161	.12	.04	.16	.22	.27	.43	.65	.81	3.6
SEP 04...	166	.07	.02	.09	.48	.58	.32	.80	.89	3.9

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 15...	.050	.15	4	60	9	0	6.3	.00	.000	.000
NOV 15...	.030	.09	5	--	--	10	6.9	--	--	--
DEC 13...	.040	.12	2	--	--	0	3.4	--	--	--
JAN 17...	.040	.12	3	50	20	30	3.1	.00	.000	.000
FEB 14...	.060	.18	4	--	--	10	2.5	--	--	--
MAR 20...	.100	.31	5	--	--	10	3.4	--	--	--
APR 17...	.050	.15	4	40	10	0	2.9	.10	3.42	.000
MAY 15...	.080	.25	3	--	--	10	3.5	--	--	--
JUN 12...	.040	.12	2	--	--	10	5.2	--	--	--
JUL 10...	.080	.25	3	30	10	3	8.5	.00	36.8	.000
AUG 14...	.090	.28	5	--	--	10	2.0	--	--	--
SEP 04...	.740	2.3	2	--	--	10	4.6	--	--	--

HOUSATONIC RIVER BASIN

279

01205000 LAKE ZOAR AT STEVENSON, CT

LOCATION.--Lat 41°23'00", long 73°10'18", Fairfield County, Hydrologic Unit 01100005, at gaging station on Housatonic River at tailrace of dam of Connecticut Light and Power Company at Stevenson, 0.2 mi (0.3 km) upstream from gaging station, and 0.4 mi (0.6 km) upstream from Eightmile Brook.

DRAINAGE AREA.--1,541 mi² (3,991 km²).

PERIOD OF RECORD.--Water year 1960 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1960 to current year.

REMARKS.--Several days have no records because of missed readings.

COOPERATION.--Records were furnished by the Connecticut Light and Power Company.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 17, 1968; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0°C July 22; minimum daily, 0.0°C on several days during winter months.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	11.0	9.0	6.0	.5	.0	5.0	11.5	20.0	22.5	28.0	25.0
2	19.0	11.0	8.5	4.0	.5	.0	5.0	11.5	21.0	22.5	29.0	26.0
3	19.0	11.0	8.5	2.0	.5	.0	5.5	11.5	21.5	22.0	28.0	25.0
4	18.0	11.0	8.5	2.0	.5	---	6.0	11.5	21.0	23.0	29.0	25.0
5	18.0	11.0	8.5	2.0	.5	.0	7.0	11.5	19.0	25.0	28.0	25.0
6	18.0	11.0	8.5	2.0	.5	4.5	7.0	12.5	19.0	23.0	28.0	25.0
7	17.0	11.0	8.0	2.0	.5	4.5	7.0	15.0	19.0	22.0	29.0	24.0
8	17.0	11.0	7.5	2.0	.5	4.5	7.5	14.0	18.0	22.0	29.0	24.0
9	17.0	10.0	7.0	2.0	.5	4.5	8.0	14.0	18.0	---	29.0	23.0
10	16.0	10.0	6.0	2.0	.5	4.5	8.0	14.0	18.0	25.0	29.0	23.0
11	16.0	11.0	6.0	2.0	.5	4.0	9.0	14.0	18.0	25.0	29.0	24.0
12	15.0	11.0	6.0	2.0	.5	3.0	9.0	14.0	20.0	24.5	29.0	24.0
13	15.0	11.0	5.0	2.0	.5	2.0	10.0	15.0	21.0	24.5	28.0	23.0
14	14.0	10.0	5.0	2.0	.0	2.0	10.0	15.0	21.0	25.0	27.0	23.0
15	14.0	10.0	4.0	2.0	.0	2.0	10.0	15.0	21.0	25.5	26.0	21.0
16	14.0	10.0	4.0	2.0	.0	2.0	10.0	15.0	21.0	26.5	25.5	21.5
17	14.0	10.0	4.0	---	.0	3.0	10.0	15.0	21.0	27.5	25.0	22.0
18	14.0	10.0	4.0	---	.0	3.0	10.0	16.0	22.0	27.0	25.0	22.0
19	14.0	10.0	4.0	---	.0	3.5	11.0	16.0	22.5	27.5	25.0	22.0
20	14.5	9.0	3.0	---	.0	3.0	11.5	17.0	20.5	28.0	25.0	21.0
21	14.5	9.0	3.0	---	.0	3.5	12.0	16.0	21.0	29.0	25.0	21.0
22	14.5	9.0	3.0	2.0	.0	4.0	12.0	17.0	22.0	30.0	25.0	21.0
23	---	9.0	3.0	2.0	.0	4.0	12.0	17.0	23.0	26.0	24.5	20.0
24	14.5	9.5	3.0	2.0	.0	4.0	12.0	18.0	24.0	27.0	24.5	20.0
25	13.0	10.0	3.0	2.0	.0	4.0	12.0	18.0	26.0	27.0	24.5	21.5
26	13.0	10.0	3.0	2.0	.0	4.0	12.0	19.0	26.0	28.0	24.5	21.5
27	12.0	10.0	3.0	2.0	.0	4.0	12.0	19.0	25.0	28.0	24.5	21.0
28	12.0	10.0	3.0	2.0	.0	5.0	11.0	19.0	24.0	28.0	27.0	21.0
29	11.0	10.0	3.0	2.0	.0	5.0	11.0	18.0	23.0	---	25.0	21.0
30	11.0	10.0	3.0	2.0	---	5.0	11.5	19.0	22.5	---	24.0	21.0
31	11.0	---	3.0	2.0	---	5.0	---	20.0	---	28.0	25.0	---
MEAN	15.0	10.0	5.0	2.0	.0	3.5	9.5	15.5	21.5	25.5	26.5	22.5
WTR YR 1980	MEAN	13.0		MAX	30.0		MIN	.0				

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT
(National stream-quality accounting network station)

LOCATION.--Lat 41°23'02", long 73°10'05", New Haven County, Hydrologic Unit 01100005, on left bank, 0.2 mi (0.3 km) downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi (0.3 km) upstream from Eightmile Brook, and at mile 19.2 (30.9 km).

DRAINAGE AREA.--1,541 mi² (3,991 km²).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--August 1928 to current year.

REVISED RECORDS.--WSP 711: 1929(M). WSP 781: Drainage area. WSP 1231: 1951. WSP 1301: 1933-34(M), 1936-37.

GAGE.--Water-stage recorder. Datum of gage is 24.98 ft (7.614 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, (see p.303), and by diversion out of basin at Shepaug Reservoir.

AVERAGE DISCHARGE (adjusted for storage and diversion).--52 years, 2,622 ft³/s (74.26 m³/s), 23.11 in/yr (587 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,800 ft³/s (2,150 m³/s) Oct. 16, 1955, gage height, 24.50 ft (7.467 m), from rating curve extended above 35,000 ft³/s (991 m³/s) on basis of computation of peak flow at Stevenson and Derby Dams and slope-area measurement at gage heights 21.5 and 23.5 ft (6.55 and 7.16 m); practically no flow at times, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,500 ft³/s (1,374 m³/s) Mar. 22, gage height, 19.61 ft (5.977 m); minimum, 28 ft³/s (0.793 m³/s) Aug. 20, gage height, 0.43 ft (0.131 m); minimum daily, 37 ft³/s (1.048 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	2720	6240	1430	787	294	7170	4480	527	2450	89	130
2	3010	2750	694	2910	55	89	5990	5280	1650	2370	89	1230
3	4700	2860	3880	3430	64	800	5310	2660	1290	2160	91	462
4	6400	3250	5140	3720	1320	752	6720	1970	1780	85	1010	594
5	5600	2920	3980	710	663	733	6890	4200	1120	78	918	3d2
6	5350	3670	2780	133	782	826	4070	3200	750	293	1100	90
7	5000	3560	4330	2110	1140	1660	5930	2950	472	1850	911	88
8	4400	3390	3600	2440	968	829	5100	3910	1080	1200	885	742
9	4100	4330	62	1650	78	83	5650	3790	1700	813	91	315
10	4000	3830	3260	1290	79	1850	23400	1150	1340	296	91	335
11	3900	2300	2620	2830	1160	5690	15500	44	1570	207	1100	90
12	4000	2390	2470	4150	861	4840	13400	4110	947	70	866	99
13	2800	3990	3350	3460	547	1660	11300	4140	526	227	657	94
14	4100	4700	2830	3360	972	2220	10800	3290	163	459	1430	94
15	3700	4590	951	2680	1110	704	9090	3290	159	827	699	294
16	4100	3770	174	2350	78	73	6460	2340	1350	1230	93	242
17	3800	1340	3400	2860	101	3470	6420	1150	1190	848	89	176
18	3140	1000	3620	3050	1160	5950	6340	1080	663	343	56	1190
19	1830	3820	3180	964	2150	6720	5740	1830	1020	90	40	428
20	522	4320	1800	51	1060	6400	4030	2380	562	90	37	78
21	410	3540	2160	3890	798	10400	4850	2180	80	1460	51	77
22	2830	648	1160	2770	1490	36400	4740	4290	222	596	271	985
23	3280	1660	1470	1460	71	16200	4940	1710	793	616	58	535
24	2300	1120	3330	1940	367	16400	4200	248	258	607	109	337
25	1980	869	4020	1470	77	11800	4040	313	910	793	427	591
26	1360	4180	6210	57	1640	10500	3530	812	962	92	323	240
27	41	7630	4380	548	1380	8270	853	1230	171	91	559	75
28	37	6410	4740	1900	1060	6490	4960	1220	156	969	551	73
29	1910	6190	1610	2230	1180	6460	6490	551	86	1710	309	54
30	2240	4860	2040	1950	---	6580	5820	2180	3810	86	129	297
31	2280	---	3620	1370	---	7410	---	65	---	89	132	---
TOTAL	95140	102607	93101	65163	23198	182553	209733	72043	27307	23095	13261	10417
MEAN	3069	3420	3003	2102	800	5889	6991	2324	910	745	428	347
MAX	6400	7630	6240	4150	2150	36400	23400	5280	3810	2450	1430	1230
MIN	37	648	62	51	55	73	853	44	80	70	37	54
(†)	+52.4	-28.9	-86.3	-37.1	+53.2	+439	+290	-78.7	+38.2	+17.2	+17.2	-72.6
MEAN‡	3121	3391	2917	2065	853	6328	7281	2245	948	758	445	274
CFSM‡	2.03	2.20	1.89	1.34	0.55	4.11	4.72	1.46	0.62	0.49	0.29	0.18
IN‡	2.34	2.46	2.18	1.54	0.59	4.74	5.27	1.68	0.69	0.56	0.33	0.20

CAL YR 1979 TOTAL 1369071 MEAN 3751 MAX 35400 MIN 37 MEAN‡ 3758 CFSM‡ 2.44 IN‡ 33.58
WTR YR 1980 TOTAL 917618 MEAN 2507 MAX 36400 MIN 37 MEAN‡ 2521 CFSM‡ 1.64 IN‡ 22.58

† Change in contents in Candlewood, Lillinonah, and Zoar Lakes, Cairns and Shepaug Reservoirs, and diversion out of basin at Shepaug Reservoir; equivalent in cubic feet per second; furnished by Connecticut Light and Power Company and city of Waterbury.

‡ Adjusted for diversion and change in contents.

01205500 HOUSATONIC RIVER AT STE/ENSON, CT--Continued

PERIOD OF RECORD.--Water years 1952-53, 1955-56, 1959, 1961, 1963, 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1974 to current year.

WATER TEMPERATURES: November 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974.

REMARKS.--Interruptions in the record are due to malfunctions of the instrument. In addition to the water-quality monitor record, samples were collected approximately once a month.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 390 micromhos Sept. 14, 1977; minimum recorded, 46 micromhos Mar. 25, 1980.

WATER TEMPERATURES: Maximum recorded, 30.5°C Aug. 3, 6-9, 1976; minimum, 0.0°C many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 302 micromhos March 17; minimum recorded, 46 micromhos March 25.

WATER TEMPERATURES: Maximum recorded, 25.0°C Aug. 7; minimum recorded 1.5°C Jan. 2-13, 15, 24-25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	1430	4200	200	7.0	7.0	15.0	10	5.0	8.0	78	36	--
NOV												
15...	1100	5610	190	6.7	6.0	9.5	15	6.0	9.6	84	130	--
DEC												
13...	1135	5590	190	6.7	2.5	4.5	10	3.0	11.7	90	500	--
JAN												
14...	1210	5520	200	6.8	4.5	3.0	10	4.0	12.6	93	225	24
FEB												
14...	1245	102	225	7.7	6.0	5.0	5	3.0	9.7	76	<1	<1
MAR												
20...	1030	6400	255	7.2	14.5	2.0	5	6.0	13.2	96	190	58
APR												
14...	1210	11200	140	7.1	9.5	10.5	5	5.0	11.4	102	2000	120
MAY												
15...	1100	5570	190	7.2	17.5	15.0	3	7.0	9.3	91	760	21
JUN												
12...	1045	4320	204	7.1	18.0	18.0	5	4.0	7.8	82	110	K6
JUL												
08...	1115	3350	240	7.2	25.0	21.0	7	1.0	5.8	64	110	K8
AUG												
14...	1030	53	245	6.9	28.5	23.0	5	1.0	1.5	17	3200	K2
SEP												
04...	1130	2880	255	7.3	30.0	22.0	5	1.0	4.2	48	100	<1

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)
OCT												
11...	K18	K9	90	21	23	8.0	8.5	24	.4	10	1.8	69
NOV												
15...	48	32	87	12	22	7.8	8.1	17	.4	9.7	1.6	75
DEC												
13...	25	K7	77	17	20	6.6	5.9	20	.3	7.4	1.5	60
JAN												
14...	--	230	79	6	20	7.0	6.9	16	.3	8.1	1.2	73
FEB												
14...	--	<1	89	12	22	8.2	7.3	15	.3	8.7	1.4	77
MAR												
20...	--	1100	90	19	22	8.5	11	21	.5	13	1.8	71
APR												
14...	--	88	56	6	14	5.2	4.6	15	.3	--	1.3	50
MAY												
15...	--	K4	80	9	20	7.3	6.9	16	.3	--	1.2	71
JUN												
12...	--	K1	84	19	21	7.7	8.4	18	.4	--	1.5	65
JUL												
08...	--	19	97	7	24	8.9	9.0	17	.4	--	1.7	90
AUG												
14...	--	K1	110	8	27	9.4	9.9	17	.4	--	2.1	98
SEP												
04...	--	K2	120	27	29	11	11	17	.4	--	2.2	91

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 11...	12	11	.1	3.1	117	109	.16	1330	136	.28	.05	.10
NOV 15...	13	11	.1	3.5	115	113	.16	1740	126	.26	.25	.06
DEC 13...	13	9.5	.1	4.8	102	99	.14	1540	114	.36	.40	.06
JAN 14...	15	10	.1	5.0	141	111	.19	2100	125	.54	.43	.10
FEB 14...	16	11	.1	4.6	131	119	.18	36.1	129	.46	.46	.10
MAR 20...	14	14	.1	3.5	130	121	.18	2250	133	.75	.79	.26
APR 14...	10	6.6	.1	4.5	80	78	.11	2420	117	.44	.44	.09
MAY 15...	14	10	.1	3.0	121	107	.16	1820	120	.27	.31	.08
JUN 12...	13	11	.1	.9	113	104	.15	1320	125	.23	.22	.12
JUL 08...	13	14	.1	1.6	150	128	.20	1360	138	.45	.40	.06
AUG 14...	13	13	.1	2.9	150	137	.20	21.5	155	.19	.21	.24
SEP 04...	13	14	.1	2.3	151	138	.21	1170	155	.07	.06	.18

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 11...	.20	.12	.26	.60	.32	.70	.18	.52	.98	.57	4.3	.050
NOV 15...	.07	.07	.09	.35	.21	.41	.13	.28	.67	.53	3.0	.030
DEC 13...	.00	.07	.00	.31	.24	.37	.13	.24	.73	.64	3.2	.040
JAN 14...	.06	.12	.08	.28	.32	.38	.00	.38	.92	.81	4.1	.040
FEB 14...	.08	.12	.10	.81	.50	.91	.33	.58	1.4	1.0	6.1	.050
MAR 20...	.21	.31	.27	.64	.36	.90	.33	.57	1.7	1.4	7.3	.050
APR 14...	.06	.11	.08	.38	.40	.47	.01	.46	.91	.90	4.0	.070
MAY 15...	.06	.10	.08	.16	.26	.24	.00	.32	.51	.63	2.3	.040
JUN 12...	.10	.15	.13	.28	.18	.40	.12	.28	.63	.50	2.8	.030
JUL 08...	.01	.07	.01	.54	.26	.60	.33	.27	1.1	.67	4.6	.010
AUG 14...	.17	.29	.22	.31	.33	.55	.05	.50	.74	.71	3.3	.090
SEP 04...	.16	.22	.21	.33	.35	.51	.00	.51	.58	.57	2.6	.060

HOUSATONIC RIVER BASIN

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01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 11...	.15	.020	1	0	1	0	0	0	0	0	2	20
NOV 15...	.09	.020	--	--	--	--	--	--	--	--	--	--
DEC 13...	.12	.020	--	--	--	--	--	--	--	--	--	--
JAN 14...	.12	.030	0	0	0	<50	<30	20	1	0	1	<10
FEB 14...	.15	.040	--	--	--	--	--	--	--	--	--	--
MAR 20...	.15	.020	--	--	--	--	--	--	--	--	--	--
APR 14...	.21	.020	1	1	0	<50	--	30	0	0	0	20
MAY 15...	.12	.020	--	--	--	--	--	--	--	--	--	--
JUN 12...	.09	.030	--	--	--	--	--	--	--	--	--	--
JUL 08...	.03	.010	1	0	1	100	70	30	2	0	2	10
AUG 14...	.24	.060	--	--	--	--	--	--	--	--	--	--
SEP 04...	.18	.040	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 11...	10	10	0	0	0	7	3	4	430	370	60	10
NOV 15...	--	--	--	--	--	--	--	4	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	2	--	--	--	--
JAN 14...	<0	<10	0	0	0	14	10	4	300	250	50	2
FEB 14...	--	--	--	--	--	--	--	5	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	4	--	--	--	--
APR 14...	10	10	0	0	0	4	1	3*	930	860	70	2
MAY 15...	--	--	--	--	--	--	--	2	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	2	--	--	--	--
JUL 08...	0	10	0	0	0	3	0	3	180	170	10	1
AUG 14...	--	--	--	--	--	--	--	17	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	4	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDE REC OV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL REC OV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE REC OV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL REC OV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE REC OV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	MERCURY TOTAL REC OV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE REC OV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT 11...	7	3	60	50	10	0	0	1	<.1	.0	<.1	0
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	1	1	30	10	20	4	1	3	<.1	<.0	<.1	0
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	2	0	50	40	10	3	2	1	.1	.0	.1	0
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	0	1	60	50	8	1	0	1	<.1	--	<.1	0
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL REC OV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE REC OV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL REC OV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE REC OV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 11...	0	0	0	0	0	10	7	3	--	--	.2	.10
NOV 15...	--	--	--	--	--	--	--	2	4.0	--	--	--
DEC 13...	--	--	0	--	--	--	--	30	4.5	--	--	--
JAN 14...	0	0	0	0	0	16	10	6	4.4	4.0	.4	.00
FEB 14...	--	--	--	--	--	--	--	20	3.5	--	--	--
MAR 20...	--	--	0	--	--	--	--	6	4.7	--	--	--
APR 14...	0	0	0	0	0	10	0	50	4.5	4.2	.3	.10
MAY 15...	--	--	--	--	--	--	--	8	3.6	--	--	--
JUN 12...	--	--	1	--	--	--	--	2	5.3	--	--	--
JUL 08...	0	0	0	0	0	10	0	10	3.1	2.5	.6	.00
AUG 14...	--	--	--	--	--	--	--	0	4.4	--	--	--
SEP 04...	--	--	0	--	--	--	--	0	3.7	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

HOUSATONIC RIVER BASIN

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01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 15...	7600	--	--
JAN 14...	--	1.00	.000
MAR 20...	3000	--	--
APR 14...	--	1.89	.000
MAY 15...	4200	--	--
JUN 12...	6000	--	--
JUL 08...	13000	13.8	.000
AUG 14...	7800	--	--
SEP 04...	8800	--	--

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 11...	1430	4200	14	159	61	APR 14...	1210	11200	49	1480	--
NOV 15...	1100	5610	4	61	100	MAY 15...	1100	5570	8	120	59
DEC 13...	1135	5590	--	--	--	JUN 12...	1045	4320	--	--	--
JAN 14...	1210	5520	--	--	--	JUL 08...	1115	3350	--	--	--
FEB 22...	1300	--	2	--	100	AUG 14...	1030	53	8	1.1	64
MAR 14...	1245	102	6	1.7	100	SEP 04...	1130	2880	--	--	--
MAR 20...	1030	6400	--	--	--						

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	NOV 15,79 1100	MAR 20,80 1030	MAY 15,80 1100	JUN 12,80 1045
TOTAL CELLS/ML	7600	3000	4200	6000
DIVERSITY: DIVISION	0.5	0.2	1.5	1.2
..CLASS	0.5	0.2	1.7	1.2
...ORDER	0.5	0.5	2.4	1.3
...FAMILY	0.7	0.6	3.2	2.0
....GENUS	0.8	0.6	3.5	2.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	*	0
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	150	3
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	*	0	--	-
...MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	230	6	--	-
....CHODATELLA	--	-	25	1	--	-	--	-
...CLOSTERIOPSIS	--	-	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	62	1	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	52	1	--	-	--	-	--	-
...TETRASPOALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	--	-
...PALMELLACEAE								
...SPHAEROCYSTIS	--	-	--	-	--	-	100	2
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	*	0	--	-
...CHLAMYDOMONAS	--	-	76	2	120	3	--	-
...VOLVOCAEAE								
...EUDORINA	--	-	--	-	--	-	--	-
...PANDORINA	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEAE								
....CYCLOTELLA	52	1	2800# 92		330	8	*	0
....MELOSIRA	*	0	--	-	200	5	--	-
...STEPHANODISCUS	*	0	--	-	--	-	--	-
...PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	*	0	--	-	*	0	--	-
...RHOICOSPHENIA	--	-	--	-	420	10	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	25	1	*	0	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	39	1	50	2	260	6	1400# 23	
...FRAGILARIA	430	6	--	-	120	3	1300# 21	
...SYNEDRA	--	-	25	1	62	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	25	1	*	0	--	-
...PINNULARIA	*	0	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	25	1	31	1	--	-
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	--	-	240	4
..CHRYSTOPHYCEAE								
...CHRYSONOMADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	120	3	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON--Continued

DATE TIME	NOV 15,79 1100		MAR 20,80 1030		MAY 15,80 1100		JUN 12,80 1045	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	260	6	*	0
....COCCOCHLORIS	*	0	--	-	*	0	--	-
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	930#	22	880	15
....APHANIZOMENON	190	3	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	6800#	89	--	-	790#	19	1900#	32
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	*	0	--	-	31	1	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	47	1	--	-
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

DATE TIME	JUL 8,80 1115		AUG 14,80 1030		SEP 4,80 1130	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	880	7	2200#	28	2500#	28
....COCCOCHLORIS	--	-	--	-	--	-
....GOMPHOSPHAERIA	2200#	16	--	-	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	4100#	30	--	-	--	-
....APHANIZOMENON	3700#	27	--	-	1800#	21
...OSCILLATORIACEAE						
....OSCILLATORIA	1300	10	710	9	930	11
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	*	0	--	-	--	-
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON

DATE TIME	JUL 8.80 1115	AUG 14.80 1030	SEP 4.80 1130
TOTAL CELLS/ML	13000	7800	8800
DIVERSITY: DIVISION	0.5	1.2	1.4
..CLASS	0.5	1.2	1.4
...ORDER	1.4	1.5	2.4
...FAMILY	1.9	1.8	3.0
....GENUS	2.6	1.9	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA	86	1	4200# 53		52	1
...COELASTRACEAE						
...COELASTRUM	--	-	--	-	1300	14
...MICRACTINIACEAE						
...GOLENKINIA	--	-	--	-	--	-
...MICRACTINIUM	110	1	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS	*	0	59	1	*	0
...CHODATELLA	--	-	--	-	--	-
...CLOSTERIOPSIS	--	-	--	-	*	0
...DICTYOSPHAERIUM	170	1	--	-	170	2
...KIRCHNERIELLA	--	-	290	4	--	-
...OOCYSTIS	--	-	--	-	*	0
...SCENEDESMACEAE						
...SCENEDESMUS	--	-	120	2	150	2
...TETRASPORALES						
...COCCOMYXACEAE						
...ELAKATOTHRIX	--	-	--	-	*	0
...PALMELLACEAE						
...SPHAEROCYSTIS	--	-	--	-	*	0
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CARTERIA	*	0	--	-	--	-
...CHLAMYDOMONAS	230	2	--	-	*	0
...VOLVOCAEEAE						
...EUDORINA	460	3	--	-	--	-
...PANDORINA	--	-	--	-	830	9
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
...CYCLOTELLA	140	1	59	1	150	2
...MELOSIRA	--	-	--	-	--	-
...STEPHANODISCUS	--	-	--	-	--	-
...PENNALES						
...ACHNANTHACEAE						
...ACHNANTHES	--	-	--	-	--	-
...RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
...CYMBELLA	--	-	--	-	*	0
...DIATOMACEAE						
...DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
...ASTERIONELLA	*	0	--	-	--	-
...FRAGILARIA	--	-	--	-	410	5
...SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
...NAVICULA	--	-	--	-	--	-
...PINNULARIA	--	-	--	-	--	-
...NITZSCHIAEAE						
...NITZSCHIA	--	-	59	1	*	0
...TABELLARIACEAE						
...TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSONOMADALES						
...OCHROMONADACEAE						
...OCHROMONAS	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	-	180	2	*	0
...CRYPTOMONADACEAE						
...CRYPTOMONAS	--	-	--	-	310	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

HOUSATONIC RIVER BASIN

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01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	182	177	180	---	---	---	259	254	257
2	---	---	---	185	177	182	---	---	---	255	251	254
3	269	254	265	205	184	194	---	---	---	258	254	256
4	266	261	263	232	205	219	---	---	---	259	251	256
5	263	258	260	236	230	233	---	---	---	256	253	255
6	259	255	258	237	223	229	---	---	---	255	251	253
7	254	243	250	232	225	229	---	---	---	256	250	253
8	240	228	233	234	228	231	---	---	---	251	239	246
9	230	215	222	232	227	230	---	---	---	246	225	237
10	214	207	210	227	220	223	---	---	---	234	217	225
11	205	198	202	225	217	223	---	---	---	225	215	220
12	202	183	189	223	219	221	---	---	---	217	193	207
13	192	182	186	220	199	211	---	---	---	213	201	207
14	203	186	190	199	173	188	198	186	190	210	192	200
15	202	196	200	196	183	190	207	195	198	204	181	192
16	204	198	202	205	195	201	207	198	204	221	200	208
17	215	204	210	208	205	207	213	195	204	242	217	228
18	216	207	211	213	209	211	213	202	210	248	237	243
19	216	207	213	224	212	216	212	196	203	246	237	243
20	217	190	205	226	220	223	211	205	209	244	233	238
21	215	187	204	224	210	219	213	204	209	245	238	240
22	210	205	208	216	197	210	215	209	211	246	242	244
23	216	173	194	215	196	206	213	209	211	245	226	239
24	180	176	178	223	180	209	212	207	210	242	228	238
25	180	177	178	219	200	209	237	201	220	245	239	242
26	180	176	178	218	192	203	241	216	226	246	242	245
27	180	178	179	198	190	194	225	215	220	246	243	244
28	181	179	180	192	170	178	241	223	231	246	242	244
29	181	178	179	178	171	174	246	240	242	247	243	245
30	180	176	179	---	---	---	253	242	246	248	244	246
31	180	178	180	---	---	---	257	250	254	251	246	248
MONTH	269	173	207	237	170	208	257	186	217	259	181	237

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	253	244	249	285	282	284	104	97	99	196	178	184
2	247	245	245	286	283	285	110	105	107	197	188	193
3	249	243	244	287	282	285	125	113	116	211	192	201
4	245	241	243	285	280	284	141	127	135	215	207	209
5	241	240	241	286	281	283	152	140	145	227	214	220
6	243	240	241	293	281	283	159	151	154	238	215	226
7	240	238	239	286	280	284	155	143	151	240	222	229
8	243	239	239	287	282	285	159	148	153	234	209	217
9	239	236	237	286	280	283	168	142	162	227	201	213
10	238	235	236	288	282	285	161	143	150	215	198	205
11	234	231	233	287	273	280	167	153	159	203	195	200
12	231	228	229	276	264	271	175	143	161	200	182	191
13	228	226	227	272	265	269	146	139	142	214	174	186
14	226	223	224	278	271	276	142	140	141	215	163	192
15	228	223	224	285	273	278	139	134	136	223	163	193
16	228	224	226	287	281	284	135	131	132	226	192	212
17	229	224	226	302	285	290	138	129	134	236	192	215
18	230	226	227	298	273	289	142	136	139	226	207	218
19	233	226	228	290	223	250	151	139	144	225	198	214
20	232	228	229	263	244	254	155	146	149	235	197	217
21	238	233	234	279	244	265	173	151	161	231	191	209
22	254	232	242	261	76	136	185	171	177	232	178	205
23	257	250	253	78	63	74	185	182	183	232	186	211
24	259	251	253	62	47	54	183	170	177	221	190	210
25	256	252	253	49	46	47	173	166	169	225	200	210
26	266	255	260	59	52	56	174	164	168	221	188	208
27	273	261	267	67	62	64	181	172	174	223	201	213
28	280	269	274	71	68	69	179	170	174	226	205	213
29	283	277	279	77	73	74	180	172	176	211	197	205
30	---	---	---	91	79	84	181	175	178	225	193	209
31	---	---	---	98	94	96	---	---	---	213	181	205
MONTH	283	223	241	302	46	213	185	97	152	240	163	208

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	221	179	201	225	194	217	256	214	239	243	130	192
2	212	172	193	225	169	202	258	215	240	257	141	212
3	223	167	201	227	154	194	257	205	237	264	232	251
4	228	199	213	237	169	214	252	210	234	261	244	252
5	217	203	210	239	198	219	253	206	232	247	217	231
6	223	208	217	230	190	210	257	203	239	263	180	237
7	221	191	207	234	213	227	259	240	251	264	244	256
8	221	185	201	241	220	234	252	232	243	267	251	260
9	217	195	202	256	209	236	265	240	255	264	250	260
10	208	196	202	246	214	235	266	254	262	265	241	259
11	226	200	207	242	199	220	258	227	248	263	251	260
12	208	194	203	243	203	229	256	224	241	259	244	252
13	211	196	203	249	218	231	261	244	252	245	221	235
14	210	188	197	244	218	231	256	238	247	229	149	192
15	201	163	184	245	203	227	257	195	234	257	137	224
16	208	165	190	246	198	221	260	241	249	262	239	253
17	202	190	194	239	182	214	257	245	253	249	106	205
18	208	183	194	262	206	245	264	241	253	261	89	192
19	214	185	197	258	220	244	245	211	227	262	241	254
20	206	191	197	251	185	224	255	193	233	261	222	244
21	220	196	208	258	174	226	241	237	239	243	173	215
22	215	198	205	257	232	246	251	225	239	268	84	198
23	216	190	202	255	224	244	257	222	243	269	143	232
24	212	178	198	262	237	250	257	234	247	270	263	266
25	208	171	191	262	244	254	258	233	246	270	256	265
26	208	187	197	261	251	256	257	234	245	270	245	260
27	207	173	194	263	242	252	258	224	241	274	268	270
28	201	188	196	259	238	250	247	224	238	273	269	272
29	197	142	170	245	199	230	252	239	244	276	267	272
30	226	141	190	252	211	234	239	195	223	274	259	265
31	---	---	---	262	236	249	246	149	200	---	---	---
MONTH	228	141	199	263	154	231	266	149	241	276	84	241

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	2.0	2.0	2.0
2	---	---	---	---	---	---	---	---	---	2.0	1.5	2.0
3	19.5	18.5	19.0	---	---	---	---	---	---	2.0	1.5	2.0
4	18.5	18.0	18.5	---	---	---	---	---	---	2.0	1.5	1.5
5	18.5	18.0	18.5	---	---	---	---	---	---	2.0	1.5	2.0
6	19.0	18.5	18.5	---	---	---	---	---	---	1.5	1.5	1.5
7	18.5	18.0	18.5	---	---	---	---	---	---	1.5	1.5	1.5
8	18.0	17.0	17.0	---	---	---	---	---	---	1.5	1.5	1.5
9	17.0	16.0	16.5	---	---	---	---	---	---	1.5	1.5	1.5
10	16.0	15.5	16.0	---	---	---	---	---	---	1.5	1.5	1.5
11	16.0	15.0	15.5	---	---	---	---	---	---	1.5	1.5	1.5
12	15.0	14.0	14.5	---	---	---	---	---	---	1.5	1.5	1.5
13	14.0	13.5	14.0	---	---	---	---	---	---	2.0	1.5	1.5
14	13.5	12.0	13.0	---	---	---	4.5	4.5	4.5	2.0	2.0	2.0
15	12.0	10.5	11.5	9.5	9.0	9.5	4.5	4.0	4.5	2.0	1.5	2.0
16	10.5	9.5	10.0	9.0	9.0	9.0	4.0	4.0	4.0	2.0	2.0	2.0
17	9.5	9.0	9.0	9.0	8.5	8.5	4.0	3.5	4.0	2.0	2.0	2.0
18	9.5	9.0	9.0	9.0	8.5	8.5	3.5	3.0	3.5	2.5	2.0	2.0
19	9.0	8.5	9.0	8.5	8.5	8.5	3.0	2.5	2.5	2.5	2.0	2.0
20	9.0	8.5	8.5	8.5	8.0	8.0	2.5	2.0	2.5	2.0	2.0	2.0
21	9.0	8.5	8.5	8.0	8.0	8.0	2.5	2.0	2.5	2.0	2.0	2.0
22	10.5	9.0	10.0	8.0	8.0	8.0	2.5	2.5	2.5	2.0	2.0	2.0
23	10.5	8.0	10.0	8.0	8.0	8.0	2.5	2.5	2.5	2.5	2.0	2.0
24	---	---	---	8.0	7.5	8.0	2.5	2.5	2.5	2.0	1.5	2.0
25	---	---	---	8.0	8.0	8.0	3.5	2.5	3.0	2.0	1.5	2.0
26	---	---	---	8.5	7.5	8.0	3.5	3.0	3.5	2.0	2.0	2.0
27	---	---	---	8.5	8.0	8.5	3.5	3.0	3.0	2.5	2.0	2.0
28	---	---	---	8.5	8.0	8.0	3.0	2.5	3.0	2.5	2.0	2.0
29	---	---	---	8.0	7.5	8.0	2.5	2.5	2.5	2.5	2.0	2.5
30	---	---	---	8.0	8.0	8.0	2.5	2.0	2.5	2.5	2.5	2.5
31	---	---	---	---	---	---	2.0	2.0	2.0	2.5	2.5	2.5
MONTH	19.5	8.0	13.5	9.5	7.5	8.5	4.5	2.0	3.0	2.5	1.5	2.0

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TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	3.0	2.5	3.0	3.5	3.0	3.0	5.0	4.5	5.0	10.5	9.5	10.0
2	3.0	3.0	3.0	3.5	3.0	3.5	5.5	4.5	5.0	10.5	10.0	10.0
3	3.0	3.0	3.0	3.5	3.0	3.5	6.0	5.0	5.5	12.0	9.5	10.5
4	3.5	3.5	3.5	3.0	3.0	3.0	6.5	5.5	6.0	12.0	10.5	11.0
5	3.5	3.5	3.5	3.0	3.0	3.0	6.5	6.0	6.5	11.5	10.5	11.0
6	3.5	3.5	3.5	3.5	2.5	3.0	7.5	6.5	7.0	12.0	11.0	11.5
7	4.0	3.5	4.0	3.0	2.5	3.0	7.5	7.0	7.0	12.5	11.5	11.5
8	4.0	3.5	4.0	3.5	2.5	3.0	7.5	7.5	7.5	12.5	11.5	12.0
9	4.0	4.0	4.0	3.0	2.5	3.0	7.5	7.5	7.5	13.0	11.5	12.5
10	4.5	4.0	4.5	3.0	2.5	3.0	8.5	7.5	8.0	13.0	11.0	11.5
11	4.5	4.0	4.5	3.0	2.5	3.0	9.5	8.5	9.0	11.5	11.0	11.0
12	4.5	4.5	4.5	3.0	2.0	3.0	10.0	9.5	9.5	13.5	11.0	12.5
13	5.0	4.5	4.5	2.5	2.5	2.5	10.5	10.0	10.0	14.0	12.5	13.0
14	5.0	4.5	5.0	2.5	2.0	2.5	10.5	10.0	10.5	16.0	13.0	14.5
15	5.0	4.5	5.0	2.5	2.0	2.0	10.5	10.0	10.5	15.5	14.0	14.5
16	5.0	4.5	5.0	2.5	2.0	2.0	10.5	10.5	10.5	16.0	13.5	14.5
17	5.0	4.5	4.5	2.0	2.0	2.0	10.5	10.0	10.5	15.5	14.5	15.0
18	5.0	4.5	4.5	2.5	2.0	2.0	10.5	9.5	10.0	14.0	12.5	13.5
19	5.0	4.5	4.5	2.5	2.0	2.5	11.0	9.5	10.0	16.5	13.0	14.5
20	4.5	4.5	4.5	2.5	2.0	2.0	10.5	10.0	10.0	16.0	13.5	14.5
21	4.5	4.0	4.5	3.0	2.0	2.5	11.0	10.0	10.5	16.0	13.0	15.0
22	4.0	4.0	4.0	2.5	2.0	2.5	10.5	10.0	10.0	17.0	15.0	16.0
23	4.0	3.5	4.0	3.0	2.0	2.5	10.5	9.5	10.0	16.5	14.0	15.5
24	4.0	3.5	4.0	3.5	3.0	3.5	10.0	9.5	10.0	16.0	14.0	15.0
25	4.0	3.5	4.0	3.5	2.5	3.0	10.5	10.0	10.0	17.0	13.0	15.5
26	4.0	3.5	3.5	3.0	2.5	3.0	10.5	10.0	10.5	18.5	16.0	17.5
27	4.0	3.5	3.5	3.5	2.5	3.5	10.0	9.5	10.0	18.5	16.5	17.5
28	3.5	3.5	3.5	4.0	3.5	3.5	10.0	9.5	10.0	19.0	17.0	18.0
29	3.5	3.0	3.5	4.5	4.0	4.5	10.0	9.5	9.5	18.0	16.5	17.0
30	---	---	---	5.0	4.5	4.5	9.5	9.5	9.5	18.0	16.5	17.0
31	---	---	---	5.0	4.5	5.0	---	---	---	17.0	16.5	16.5
MONTH	5.0	2.5	4.0	5.0	2.0	3.0	11.0	4.5	9.0	19.0	9.5	14.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	18.0	16.5	17.0	22.0	20.0	21.0	22.5	19.5	21.5	21.5	17.0	19.5
2	18.5	16.0	17.5	20.5	18.0	19.5	23.5	21.0	22.5	22.0	17.0	20.5
3	19.0	16.0	17.0	21.0	17.5	19.0	23.0	20.5	21.5	23.0	21.0	22.0
4	22.5	17.0	20.0	20.0	17.0	19.0	24.0	19.5	22.0	22.0	21.5	22.0
5	21.0	18.5	19.5	22.0	18.5	19.0	23.5	21.5	22.5	21.5	21.5	21.5
6	19.5	17.5	18.5	23.0	17.5	21.0	24.5	22.0	23.5	22.5	20.5	21.5
7	18.5	17.0	17.5	22.5	21.0	22.0	25.0	23.0	23.5	23.0	22.0	22.5
8	19.0	17.5	18.5	21.5	20.0	21.0	24.0	23.0	23.5	23.0	22.0	22.5
9	18.5	17.5	17.5	22.5	20.5	21.5	23.5	23.0	23.5	22.5	22.0	22.5
10	18.0	17.0	17.0	21.5	19.5	20.5	23.5	23.0	23.5	22.5	22.0	22.5
11	19.0	17.5	18.0	21.5	18.0	20.0	24.0	22.5	23.0	22.5	22.0	22.0
12	18.5	16.5	17.5	22.5	20.0	21.5	24.5	23.0	23.5	22.5	21.5	22.0
13	17.5	16.0	17.0	23.0	21.5	22.0	24.5	23.0	23.5	22.0	20.5	21.5
14	16.5	16.0	16.0	23.0	21.0	22.0	23.5	22.5	23.0	21.0	18.0	19.5
15	17.5	15.5	16.0	22.0	20.5	21.5	23.5	21.0	22.5	22.5	17.5	21.0
16	21.0	15.5	19.0	23.5	21.5	22.5	23.5	22.5	23.0	22.0	21.0	21.5
17	20.5	18.0	18.5	23.5	21.0	22.0	23.5	23.0	23.0	21.5	15.5	19.0
18	19.0	17.0	18.0	24.0	21.5	22.5	22.5	22.5	22.5	22.5	14.5	19.0
19	19.0	17.5	18.0	22.0	21.5	22.0	22.0	20.5	21.5	22.0	20.5	21.5
20	19.0	18.0	18.5	22.5	21.0	22.0	22.0	20.0	21.5	21.5	20.0	20.5
21	21.0	19.0	20.0	24.5	20.0	22.5	22.0	21.5	22.0	20.5	17.5	19.0
22	20.5	19.0	20.5	24.5	22.0	23.0	22.0	21.0	21.5	23.0	14.0	19.0
23	21.0	18.5	19.0	24.0	21.5	23.0	22.0	21.0	21.5	23.5	16.5	21.5
24	20.5	18.0	19.5	24.5	22.5	23.5	22.0	21.0	21.5	23.0	22.5	23.0
25	21.5	17.5	19.5	24.5	22.5	23.5	22.0	21.0	21.5	23.0	21.5	22.0
26	21.5	20.0	20.5	23.5	23.0	23.0	22.0	21.0	21.5	22.0	21.0	21.5
27	22.0	20.0	20.5	23.5	21.5	22.5	22.5	20.0	21.5	21.0	19.5	21.0
28	21.0	19.5	20.5	23.0	21.5	22.0	22.0	20.0	21.0	21.0	19.5	20.0
29	20.0	17.5	18.5	23.5	21.0	22.5	21.5	21.0	21.5	20.0	18.5	19.0
30	22.5	17.5	20.5	23.5	21.5	23.0	21.5	19.0	20.5	18.5	18.0	18.5
31	---	---	---	23.0	22.0	22.5	22.0	17.5	20.0	---	---	---
MONTH	22.5	15.5	18.5	24.5	17.0	21.5	25.0	17.5	22.0	23.5	14.0	21.0
YEAR	25.0	1.5	12.0									

01205600 WEST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT

LOCATION.--Lat 41°48'03", long 73°07'26", Litchfield County, Hydrologic Unit 01100005, on right bank just downstream from bridge on Prospect Street in Torrington, 0.5 mi (0.8 km) upstream from confluence with East Branch, and 3 mi (5 km) downstream from Stillwater Pond.

DRAINAGE AREA.--33.7 mi² (87.3 km²).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 541.56 ft (165.067 m) National Geodetic Vertical Datum of 1929. See WSP 1721 for history of change prior to May 24, 1960. May 24, 1960, to July 2, 1965, water-stage recorder, and July 3-30, 1965, non-recording gage 80 ft (24 m) upstream on right bank at present datum. July 31 to Sept. 27, 1965, nonrecording gage at present site and datum.

REMARKS.--Records good. City of Torrington diverts an average of about 4 mgd (0.18 m³/s) for municipal supply from North Pond, Whist Pond, and Reuben Hart Reservoir. Occasional regulation at low flow by Stillwater Pond. High flow regulated by Hall Meadow Brook Detention Reservoir. (see station 01205560).

AVERAGE DISCHARGE.--24 years, 59.3 ft³/s (1.679 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,820 ft³/s (250 m³/s) Sept. 26, 1975; maximum gage height, 7.46 ft (2.274 m) Sept. 12, 1960; minimum daily, 0.3 ft³/s (0.008 m³/s) Aug. 21, Sept. 1, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s (337 m³/s) Aug. 19, 1955, by computation of peak flow over dam 3 mi (5 km) upstream; drainage area, 24.4 mi², (63.1 km²).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,500 ft³/s (70.8 m³/s) Mar. 21, gage height 5.65 ft (1.722 m); minimum daily, 4.0 ft³/s (0.113 m³/s) Sept. 14, 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	28	75	61	17	20	130	90	11	17	5.6	4.8
2	200	29	69	60	15	16	106	84	11	17	5.6	5.0
3	150	135	63	58	14	16	92	75	9.6	14	6.9	4.9
4	220	88	63	53	13	9.9	192	61	9.3	12	5.9	4.7
5	152	68	63	52	13	13	180	50	8.0	16	7.4	4.6
6	193	71	66	47	12	15	125	52	7.8	21	6.5	4.5
7	125	59	104	46	12	16	102	52	19	14	6.2	4.5
8	87	59	75	45	13	70	94	67	14	14	6.0	4.4
9	75	58	64	40	13	68	388	56	13	14	5.7	4.1
10	88	84	63	30	13	51	1060	52	12	14	5.5	4.2
11	90	85	62	62	13	253	415	51	12	14	6.2	4.2
12	132	107	61	199	13	64	354	54	9.9	14	6.5	4.2
13	146	79	63	82	12	51	266	52	9.9	13	6.0	4.2
14	98	77	59	75	12	53	147	51	9.1	13	6.5	4.0
15	80	71	56	72	12	45	285	47	11	12	6.9	4.0
16	70	66	58	67	12	41	183	45	13	11	6.3	4.0
17	58	61	77	63	13	70	152	42	11	10	6.0	7.4
18	52	61	60	62	13	697	174	41	11	9.6	5.9	16
19	51	58	54	60	14	226	163	41	9.6	5.9	6.0	6.7
20	46	58	50	56	14	130	150	38	9.1	4.7	30	5.9
21	45	59	48	55	16	552	135	42	8.3	5.3	12	5.5
22	43	61	47	52	18	1020	118	41	7.8	10	9.3	5.4
23	40	57	46	50	22	500	108	35	7.8	16	8.3	5.3
24	48	52	48	49	22	450	96	32	7.6	7.6	7.6	5.0
25	50	50	244	44	21	433	86	28	7.6	6.0	6.7	4.8
26	45	280	144	38	20	362	75	24	7.6	5.7	5.6	4.9
27	39	301	110	31	17	204	72	22	7.6	5.5	5.6	4.6
28	34	154	85	26	18	132	100	18	7.4	5.5	5.6	4.6
29	40	107	74	25	20	125	120	13	19	6.3	5.5	4.6
30	38	85	69	23	---	198	98	9.6	40	5.7	5.3	4.6
31	31	---	65	20	---	163	---	9.3	---	5.6	16	---
TOTAL	2646	2608	2285	1703	437	6063.9	5766	1374.9	341.0	339.4	235.1	155.6
MEAN	85.4	86.9	73.7	54.9	15.1	196	192	44.4	11.4	10.9	7.58	5.19
MAX	220	301	244	199	22	1020	1060	90	40	21	30	16
MIN	31	28	46	20	12	9.9	72	9.3	7.4	4.7	5.3	4.0

CAL YR 1979 TOTAL 33149.9 MEAN 90.8 MAX 1550 MIN 3.6
WTR YR 1980 TOTAL 23954.9 MEAN 65.5 MAX 1060 MIN 4.0

01205700 EAST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT

LOCATION.--41°48'12", long 73°07'06", Litchfield County, Hydrologic Unit 01100005, on upstream side of Wall Street bridge in Torrington, 0.3 mi (0.5 km) downstream from Troy Brook, and 0.6 mi (1.0 km) upstream from confluence with West Branch.

DRAINAGE AREA.--13.7 mi² (35.5 km²).

PERIOD OF RECORD.--August 1956 to current year.

REVISED RECORDS.--WSP 1621: 1958(P).

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 539.26 ft (164.366 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Lake Winchester, and by East Branch Detention Reservoir (see p.303).

AVERAGE DISCHARGE (adjusted for storage since October 1965).--24 years, 24.7 ft³/s (0.700 m³/s), 24.48 in/yr (622 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s (42.5 m³/s) Aug. 5, 1969, gage height, 4.85 ft (1.478 m); minimum observed, 0.3 ft³/s (0.008 m³/s) Aug. 19, 1963, and Aug. 24, 1964; minimum gage height observed, 0.86 ft (0.262 m) Aug. 24, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a discharge of 6,200 ft³/s (176 m³/s) at site 2.5 mi (4.0 km) upstream, drainage area 9.30 mi² (15.0 km²).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 665 ft³/s (18.8 m³/s) Mar. 22, gage height 3.45 ft (1.05 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 15, gage height, 0.97 ft (0.296 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	32	25	8.0	7.2	80	43	6.0	6.5	3.3	2.7
2	16	12	27	24	7.6	6.6	68	36	5.7	6.0	3.7	2.9
3	15	17	26	22	7.2	5.8	62	29	5.4	5.7	4.2	2.8
4	92	27	24	21	7.0	6.0	60	26	5.1	5.4	3.8	2.7
5	16	24	24	20	6.9	6.2	58	22	5.4	5.4	4.0	2.6
6	22	22	24	19	6.8	7.2	44	20	5.4	8.1	4.6	2.5
7	27	20	24	17	6.7	8.0	40	17	6.8	7.1	4.0	2.5
8	28	18	23	15	6.6	11	41	36	9.1	6.0	3.7	2.3
9	24	18	27	12	6.5	26	43	24	9.6	5.4	3.5	2.3
10	22	44	24	10	6.4	22	150	24	6.5	4.9	3.3	2.3
11	23	28	24	60	6.3	90	100	21	6.0	4.3	3.6	2.3
12	26	30	23	80	6.2	40	80	20	5.1	4.0	4.0	2.3
13	58	19	23	30	6.3	24	64	18	5.1	3.6	3.7	2.3
14	29	18	23	30	6.3	20	58	18	4.9	3.4	4.2	2.3
15	24	18	22	30	6.4	19	54	16	5.1	3.3	4.1	2.2
16	20	16	21	31	6.5	30	52	14	8.1	3.4	3.9	2.5
17	18	16	23	28	6.6	80	52	13	6.5	3.3	3.7	6.0
18	18	15	28	28	6.8	340	50	13	6.0	3.1	3.6	10
19	21	14	22	23	7.0	100	50	13	5.7	2.9	3.7	5.0
20	24	13	20	19	7.4	62	43	12	5.7	2.7	17	3.8
21	17	13	19	18	7.6	250	38	13	5.4	3.0	10	3.4
22	15	16	18	14	8.0	480	37	13	5.4	5.0	6.2	3.2
23	15	16	18	13	9.0	230	30	12	5.1	10	5.6	3.1
24	14	15	18	12	11	216	26	12	4.9	7.2	5.0	3.0
25	14	16	20	12	10	201	22	11	4.6	4.9	4.5	2.8
26	17	30	90	11	9.6	177	19	11	4.3	3.7	3.6	2.8
27	18	120	45	10	8.8	162	21	9.1	4.3	3.4	3.4	2.7
28	16	60	35	9.5	8.2	125	60	7.6	4.1	3.4	3.3	2.6
29	16	50	30	9.0	8.0	128	54	7.1	8.1	3.9	3.2	2.6
30	13	40	28	8.6	---	125	49	7.1	15	3.7	3.1	2.6
31	12	---	27	8.3	---	100	---	6.3	---	3.4	3.0	---
TOTAL	705	776	832	669.4	215.7	3105.0	1605	544.2	184.4	146.1	140.5	93.1
MEAN	22.7	25.9	26.8	21.6	7.44	100	53.5	17.6	6.15	4.71	4.53	3.10
MAX	92	120	90	80	11	480	150	43	15	10	17	10
MIN	12	11	18	8.3	6.2	19	5.8	6.3	4.1	2.7	3.0	2.2
(†)	0	0	0	0	0	+0.1	-0.2	0	-0.3	-0.3	-0.4	-0.6
MEAN†	22.7	25.9	26.8	21.6	7.44	100	53.3	17.6	5.85	4.41	4.13	2.50
CFSM†	1.66	1.89	1.96	1.58	0.54	7.30	3.89	1.28	0.43	0.32	0.30	0.18
IN†	1.91	2.11	2.26	1.82	0.58	8.42	4.34	1.48	0.48	0.37	0.35	0.20

CAL YR 1979 TOTAL 11327.0 MEAN 31.0 MAX 373 MIN 2.2 MEAN† 31.0 CFSM† 2.26 IN† 30.74
WTR YR 1980 TOTAL 9016.4 MEAN 24.6 MAX 480 MIN 2.2 MEAN† 24.5 CFSM† 1.79 IN† 24.32

† Change in contents, equivalent in cubic feet per second, in Lake Winchester and East Branch Detention Reservoir; records for East Branch Detention Reservoir furnished by Corps of Engineers.

‡ Adjusted for change in contents.

HOUSATONIC RIVER BASIN

01206900 NAUGATUCK RIVER AT THOMASTON, CT

LOCATION.--Lat 41°40'25", long 73°04'12", Litchfield County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on U.S. Highways 6 and 202 at Thomaston, 1.5 mi (2.4 km) downstream from Thomaston Reservoir, 2.5 mi (4.0 km) upstream from Branch Brook, and at mile 29.5 (47.5 km).

DRAINAGE AREA.--99.2 mi² (256.9 km²).

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WRD CT-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 354.39 ft (108.018 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Slight diurnal fluctuation at low flow. Flow regulated by Thomaston, Hall Meadow Brook and East Branch Detention Reservoirs and Lake Winchester (see p. 303).

AVERAGE DISCHARGE (adjusted for storage).--21 years, 203 ft³/s (5.749 m³/s), 27.75 in/yr (705 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,140 ft³/s (146 m³/s) Mar. 31, 1960, gage height, 6.25 ft (1.905 m); minimum, 6.6 ft³/s (0.19 m³/s) Sept. 20, 1964, gage height, 1.39 ft (0.424 m); minimum daily, 8.4 ft³/s (0.24 m³/s) Sept. 14, 21, 27, 28, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 27.0 ft (8.23 m), from floodmarks by Corps of Engineers, discharge, 53,400 ft³/s (1,510 m³/s), from indirect measurements of peak flow on Naugatuck River, 71.9 mi² (186.2 km²), and Leadmine Brook, 24.0 mi² (62.2 km²), adjusted for intervening drainage area.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,620 ft³/s (103 m³/s) Mar. 25, 26, gage height, 5.51 ft (1.679 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 14, 15, 16, gage height, 1.53 ft (0.466 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	95	230	165	60	47	453	287	59	93	24	39
2	523	94	200	160	57	46	362	248	62	73	27	22
3	408	462	179	153	55	43	316	220	59	70	53	24
4	590	345	174	135	53	44	481	193	53	55	31	19
5	301	210	169	135	52	50	639	169	46	49	31	17
6	433	186	169	133	50	61	473	166	39	115	58	17
7	278	165	353	129	50	63	316	159	126	59	32	14
8	202	151	235	121	49	192	291	293	91	48	26	14
9	188	142	186	108	49	216	297	218	74	46	23	14
10	243	197	174	101	48	142	228	179	68	43	19	14
11	255	233	167	262	48	836	1360	165	61	41	30	13
12	334	367	163	765	48	388	2120	185	53	39	44	13
13	411	239	177	262	48	156	1920	176	48	36	30	12
14	261	226	175	223	48	161	1590	162	45	35	26	12
15	201	201	151	213	49	142	1190	144	41	34	31	12
16	177	184	157	190	50	122	1560	134	74	34	27	12
17	155	170	241	175	52	155	430	126	51	33	22	13
18	142	160	175	171	55	1540	417	125	44	31	20	91
19	132	155	146	171	57	1740	357	129	40	28	22	33
20	127	150	138	158	58	499	46	118	38	22	122	25
21	128	145	136	145	61	426	51	148	37	21	53	20
22	122	140	135	141	67	197	619	155	34	44	39	18
23	116	140	137	142	79	1290	627	118	33	114	34	18
24	120	135	153	117	83	2800	236	101	32	47	29	16
25	126	130	651	123	77	3390	216	91	31	31	26	16
26	118	400	719	110	75	3260	207	79	29	26	24	20
27	109	800	314	99	62	2710	197	75	28	22	22	15
28	106	540	246	91	62	760	213	67	27	21	21	13
29	114	320	216	86	52	415	638	60	58	41	21	13
30	107	260	198	71	---	672	583	53	311	40	20	14
31	100	---	181	62	---	599	---	50	---	28	26	---
TOTAL	6820	7142	6845	5117	1654	23162	18433	4593	1792	1419	1013	593
MEAN	220	238	221	165	57.0	747	614	148	59.7	45.8	32.7	19.8
MAX	590	800	719	765	83	3390	2120	293	311	115	122	91
MIN	100	94	135	62	48	43	46	50	27	21	19	12
(f)	-0.1	+2.6	-0.2	-1.3	-1.3	+4.4	+1.2	-5.5	+0.2	-0.8	+0.6	-1.7
MEAN†	220	241	221	164	55.7	751	615	142	59.9	45.0	33.3	18.1
CFSM†	2.22	2.43	2.23	1.65	0.56	7.57	6.20	1.43	0.60	0.45	0.34	0.18
IN†	2.56	2.71	2.57	1.90	0.60	8.73	6.92	1.65	0.67	0.52	0.39	0.20

CAL YR 1979 TOTAL 108473 MEAN 297 MAX 3550 MIN 17 MEAN‡ 297 CFSM‡ 2.99 IN‡ 40.67
WTR YR 1980 TOTAL 78583 MEAN 215 MAX 3390 MIN 12 MEAN‡ 215 CFSM‡ 2.17 IN‡ 29.42

† Change in contents, equivalent in cubic feet per second, in Thomaston, Hall Meadow Brook and East Branch Detention Reservoirs, and Lake Winchester.

‡ Adjusted for change in contents.

HOUSATONIC RIVER BASIN

295

01208013 BRANCH BROOK NEAR THOMASTON, CT

LOCATION.--Lat 41°39'13", long 73°05'43", Litchfield County, Hydrologic Unit 01100005, on right bank 140 ft (43 m) upstream from U.S. Highway 6, and 1.7 mi (2.9 km) southwest of Thomaston.

DRAINAGE AREA.--21.3 mi² (55.2 km²).

PERIOD OF RECORD.--June 1971 to December 1974, at station 01208012, 0.5 mi (0.8 km) upstream, December 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.32 ft (107.997 m) National Geodetic Vertical Datum of 1929. Prior to December 1974, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 22.89 ft (6.977 m) higher.

REMARKS.--Records fair. Flow regulated by Black Rock Reservoir immediately upstream and by storage by city of Waterbury in Pitch, Morris, and Wigwam Reservoirs further upstream (see p.303).

AVERAGE DISCHARGE.--9 years, 37.6 ft³/s (1.065 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft³/s (22.5 m³/s) Sept. 28, 1975, gage height, 4.05 ft (1.234 m); minimum, 0.7 ft³/s (0.020 m³/s) June 22, 1973, July 16, 1974, Aug. 29, 1975, Aug. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 740 ft³/s (21.0 m³/s) Mar. 24, gage height 3.94 ft (1.201 m); minimum, 0.7 ft³/s (0.020 m³/s) Aug. 30, gage height, 0.78 ft (0.238 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	34	30	13	9.0	67	25	12	12	5.0	7.8
2	25	16	40	31	12	8.5	50	21	10	9.6	6.4	5.8
3	40	27	35	30	12	8.2	46	23	10	10	17	9.6
4	31	45	31	20	11	7.7	131	26	12	10	8.9	23
5	20	41	31	22	11	7.6	121	23	9.2	12	5.0	23
6	35	31	31	20	9.9	7.5	71	16	6.4	25	5.5	23
7	21	26	41	17	9.8	7.5	56	14	17	12	5.5	23
8	16	23	50	16	9.8	19	49	29	15	8.5	4.4	23
9	15	21	34	19	9.7	19	67	21	12	10	4.4	23
10	25	25	31	15	9.6	14	101	16	15	8.5	5.8	19
11	28	35	31	29	9.6	175	490	18	10	7.1	6.4	12
12	27	70	18	156	9.5	36	554	19	8.5	7.5	6.4	8.5
13	27	36	17	59	9.4	15	111	17	7.5	8.2	4.4	8.2
14	21	30	38	42	9.2	18	59	15	8.2	7.1	3.9	8.5
15	16	20	24	44	9.0	14	145	12	9.6	5.3	5.0	8.5
16	14	23	29	33	9.0	14	75	12	10	4.7	5.8	8.5
17	13	21	69	24	9.2	26	52	12	6.8	5.3	6.1	8.9
18	13	22	24	23	9.3	552	36	16	6.8	5.8	6.4	11
19	12	22	17	22	9.4	115	32	15	6.8	5.5	5.3	6.8
20	13	26	18	21	9.4	50	19	12	6.8	8.5	5.0	3.4
21	16	30	16	19	9.9	100	15	20	7.8	6.1	5.0	3.2
22	18	30	19	18	11	34	69	25	8.5	5.5	4.7	7.5
23	30	30	22	18	12	192	26	24	7.8	10	5.3	17
24	36	29	26	17	14	540	19	20	6.1	7.5	7.1	18
25	24	30	202	16	12	618	17	22	5.0	5.0	7.1	20
26	9.4	73	123	16	11	402	17	17	4.4	5.0	4.7	20
27	7.1	78	67	15	9.7	72	19	13	5.0	7.1	4.4	20
28	7.3	70	52	15	9.6	56	23	11	5.0	6.4	4.4	20
29	7.9	48	44	14	9.4	56	69	9.2	21	7.8	2.8	15
30	12	35	37	14	---	118	37	8.5	38	9.2	1.1	8.5
31	13	---	36	13	---	82	---	9.6	---	5.8	6.8	---
TOTAL	613.7	1029	1287	848	299.4	3393.0	2643	541.3	308.2	258.0	176.0	413.7
MEAN	19.8	34.3	41.5	27.4	10.3	109	88.1	17.5	10.3	8.32	5.68	13.8
MAX	40	78	202	156	14	618	554	29	38	25	17	23
MIN	7.1	16	16	13	9.0	7.5	15	8.5	4.4	4.7	1.1	3.2
CAL YR 1979 TOTAL	16903.9		MEAN 46.3	MAX 649	MIN 1.6							
WTR YR 1980 TOTAL	11810.3		MEAN 32.3	MAX 618	MIN 1.1							

01208420 HOP BROOK NEAR NAUGATUCK, CT

LOCATION.--Lat 41°30'21", long 73°03'31", New Haven County, Hydrologic Unit 01100005, on left bank 30 feet (9 m) downstream from Porter Avenue bridge at the borough of Naugatuck golf course, 400 feet (120 m) east of State Highway 63, 0.8 mile (1.3 km) downstream from Hop Brook Lake, 1.4 mi (2.3 km) north of Naugatuck, and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 206.29 ft (62.877 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Hop Brook Lake (see p.303).

AVERAGE DISCHARGE.--11 years, 37.0 ft³/s (1.048 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft³/s (15.2 m³/s) Dec. 22, 1973, gage height, 3.95 ft (1.204 m); minimum, 0.06 ft³/s (0.002 m³/s) Aug. 20, 23, 1970, gage height, 0.33 ft (0.101 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 19, 1955, reached a discharge of 2,650 ft³/s (75.0 m³/s), by computation of peak flow by flow-through-culvert method.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 520 ft³/s (14.7 m³/s) Mar. 24-25, gage height, 3.90 ft (1.189 m); minimum, 0.10 ft³/s (0.003 m³/s) Mar. 29, gage height, 0.91 ft (0.277 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	13	36	23	11	12	86	50	18	33	5.8	1.0
2	35	13	33	22	10	11	65	42	20	19	6.8	1.0
3	66	72	29	21	10	10	56	37	21	16	18	1.2
4	48	41	28	18	9.5	9.1	82	33	16	15	12	1.2
5	32	27	26	18	9.1	8.2	79	31	12	12	6.0	1.2
6	55	23	27	17	8.7	8.2	55	29	9.8	28	5.5	1.0
7	30	21	56	17	8.2	8.2	49	28	31	19	5.2	.85
8	23	19	35	16	8.2	14	45	76	26	14	5.1	49
9	25	18	27	16	8.2	23	58	51	18	11	5.0	10
10	42	31	27	16	8.2	19	82	36	18	9.2	4.3	1.3
11	42	40	24	27	8.2	148	322	32	15	7.2	4.3	1.0
12	40	87	23	85	8.3	38	372	39	13	6.0	4.3	.60
13	38	43	36	34	8.3	23	246	37	11	5.2	4.3	.60
14	29	39	37	26	8.2	25	130	33	9.2	4.9	4.3	.71
15	24	32	27	26	8.3	24	107	27	8.2	4.6	4.3	1.3
16	22	28	26	23	8.3	20	91	24	8.7	4.3	4.0	1.0
17	21	25	32	21	8.2	30	68	22	7.7	7.2	3.7	1.0
18	20	24	39	20	8.2	223	59	23	6.0	7.0	3.5	22
19	19	22	34	20	8.2	64	53	26	5.6	6.0	3.5	6.8
20	18	21	27	19	9.2	45	46	21	7.7	9.0	3.2	3.7
21	18	21	24	18	11	68	44	55	12	7.0	3.0	2.7
22	16	20	19	17	12	20	42	51	12	6.4	3.0	2.1
23	16	20	21	17	15	131	37	30	17	10	2.7	1.7
24	16	19	25	16	18	398	35	22	24	8.0	2.7	1.4
25	15	19	121	16	15	496	33	19	22	6.0	2.5	1.2
26	13	95	67	15	15	411	35	15	17	5.8	2.5	1.2
27	13	238	40	14	14	37	37	14	15	7.6	1.7	1.3
28	16	67	32	12	13	.10	53	13	8.7	7.0	1.0	1.0
29	21	47	30	12	13	.10	152	12	9.8	7.6	.85	1.0
30	16	39	28	11	---	13	65	11	65	9.0	.85	.85
31	14	---	24	11	---	52	---	11	---	7.4	1.2	---
TOTAL	831	1224	1060	644	300.5	2388.90	2684	950	484.4	319.4	135.10	120.91
MEAN	26.8	40.8	34.2	20.8	10.4	77.1	89.5	30.6	16.1	10.3	4.36	4.03
MAX	66	238	121	85	18	496	372	76	65	33	18	49
MIN	13	13	19	11	8.2	.10	33	11	5.6	4.3	.85	.60
CAL YR 1979	TOTAL	16980.80	MEAN	46.5	MAX	496	MIN	1.3				
WTR YR 1980	TOTAL	11142.21	MEAN	30.4	MAX	496	MIN	.10				

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT

LOCATION.--Lat 41°26'32", long 73°03'47", New Haven County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on Bridge Street at Beacon Falls, 0.4 mi (0.6 km) upstream from Bronson Brook, and at mile 10.1 (16.2 km).

DRAINAGE AREA.--259 mi² (671 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1918 to September 1924, September 1928 to September 1955, published as "near Naugatuck," October 1955 to current year.

REVISED RECORDS.--WSP 781: Drainage area. WSP 1171: 1918-24, 1928-49. WSP 1501: 1956 (P).

GAGE.--Water-stage recorder. Datum of gage is 117.28 ft (35.747 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 37.89 ft (11.549 m) higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good except those for no gage-height record Oct. 8-16, which are fair. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes (see p.303), and during low flow, by industrial plants upstream. Flow increased by diversion from Shepaug Reservoir into Naugatuck River basin. Town of Watertown diverts about 0.5 mgd (0.026 m³/s) from Pomperaug River basin into Naugatuck River about 10 mi (16 km) upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--58 years, 1918-24, 1928-80, 496 ft³/s (14.05 m³/s), 26.01 in/yr (661 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft³/s (3,000 m³/s) Aug. 19, 1955, gage height, 25.7 ft (7.83 m) from floodmarks, from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurements of peak flow at gage heights 12.4 and 25.7 ft (3.78 and 7.83 m), site and datum then in use; minimum, 24 ft³/s (0.68 m³/s) Oct. 21, 1935; minimum daily, 40 ft³/s (0.11 m³/s) Oct. 5, 12, 1930, Sept. 7, 1936; minimum gage height, present site and datum, 1.32 ft (0.402 m) Aug. 28, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1927 reached a stage of 14 ft (4.3 m), former site and datum, discharge, about 26,000 ft³/s (736 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,690 ft³/s (274 m³/s) Mar. 22, gage height, 10.72 ft (3.267 m); minimum, 94 ft³/s (2.66 m³/s) Sept. 16, gage height, 2.12 ft (0.646 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	283	637	491	244	225	1560	1070	328	400	149	137
2	899	277	592	479	247	225	1250	898	379	261	143	122
3	971	960	548	468	237	212	1110	771	351	247	240	128
4	1210	910	519	409	232	218	1510	714	310	215	203	130
5	754	601	507	409	228	232	1820	654	277	188	156	137
6	960	507	503	368	223	247	1410	615	249	410	156	135
7	696	472	851	364	225	249	1080	593	535	254	181	135
8	552	392	682	382	228	309	971	1110	468	203	137	163
9	507	402	548	354	228	583	1530	928	367	176	122	145
10	668	503	507	337	228	416	4830	727	355	172	108	137
11	696	678	491	434	225	1860	3100	643	331	160	113	128
12	730	1110	475	1500	237	1070	3660	720	287	154	139	120
13	804	764	578	954	232	531	2870	690	264	143	147	117
14	682	664	601	655	230	565	2480	654	246	143	128	122
15	552	592	491	605	218	515	2340	561	235	124	124	120
16	460	531	460	574	240	427	2590	525	249	135	122	100
17	430	475	641	503	249	527	1490	488	258	139	113	110
18	402	464	503	468	252	3160	1260	488	221	139	111	397
19	378	445	409	519	257	2450	1150	525	213	117	118	169
20	354	427	392	491	262	1340	831	483	207	111	131	132
21	343	416	392	441	267	2390	666	758	196	115	172	119
22	340	402	388	413	283	5560	892	758	198	130	137	117
23	337	399	395	434	312	2850	1410	577	198	284	120	117
24	368	388	438	395	327	4070	791	463	187	243	109	115
25	357	375	1400	347	309	4600	727	415	187	165	109	113
26	315	1260	1500	343	300	4210	727	375	177	135	108	126
27	291	2300	938	321	270	3200	714	351	177	120	106	120
28	303	1420	715	318	267	2020	1210	324	167	117	106	111
29	327	894	632	309	244	1300	1740	300	172	346	106	111
30	306	725	574	283	---	2030	1580	287	310	280	103	104
31	291	---	536	254	---	1860	---	277	---	181	120	---
TOTAL	16743	20036	18843	14622	7301	49451	49299	18742	8099	6007	4137	4037
MEAN	540	668	608	472	252	1595	1643	605	270	194	133	135
MAX	1210	2300	1500	1500	327	5560	4830	1110	535	410	240	397
MIN	291	277	388	254	218	212	666	277	167	111	103	100
(†)	-19.6	-11.8	-27.1	-30.6	-40.9	+1.7	-13.1	-35.9	-40.0	-41.8	-41.6	-63.9
MEAN‡	520	656	581	441	211	1597	1630	569	230	152	91.4	71.1
CFSM‡	2.01	2.53	2.24	1.70	0.81	6.17	6.29	2.20	0.89	0.59	0.35	0.27
IN‡	2.32	2.82	2.58	1.96	0.87	7.11	7.02	2.54	0.99	0.68	0.40	0.30

CAL YR 1979 TOTAL 288199 MEAN 790 MAX 6290 MIN 132 MEAN‡ 766 CFSM‡ 2.96 IN‡ 40.22
WTR YR 1980 TOTAL 217317 MEAN 594 MAX 5560 MIN 100 MEAN‡ 561 CFSM‡ 2.17 IN‡ 29.59

† Change in contents in Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes, and diversion from Shepaug Reservoir, equivalent in cubic feet per second; contents furnished by city of Waterbury and Corps of Engineers, and diversion figures furnished by city of Waterbury.

‡ Adjusted for diversion and change in contents.

HOUSATONIC RIVER BASIN

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1953, 1958, published as "near Naugatuck," 1961, 1963, 1966, 1968, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1965 to October 1967.

WATER TEMPERATURES: September 1965 to October 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,150 micromhos July 8, 1966; minimum recorded, 100 micromhos Apr. 2, 3, May 26, 1967.

WATER TEMPERATURES: Maximum, 30.5°C July 3, 1966, Apr. 5, 1967; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
09...	1205	501	205	7.1	17.0	13.5	30	6.0	10.0	95	330000	--
NOV												
13...	1145	780	165	6.3	13.0	11.0	25	6.0	11.5	97	26000	--
DEC												
10...	1200	517	190	6.5	6.5	4.0	20	4.0	13.2	100	26000	--
JAN												
22...	0930	400	250	7.0	-1.0	1.5	5	25	13.9	101	22000	3600
FEB												
11...	1205	207	480	7.1	2.0	1.5	10	8.0	13.0	93	6200	540
MAR												
17...	1210	428	265	6.9	13.0	6.5	5	10	12.4	101	4500	1200
APR												
14...	1540	2820	105	6.9	8.5	9.0	5	5.0	11.8	102	20000	2500
MAY												
12...	1315	966	187	7.1	23.5	16.0	7	3.0	11.4	115	11000	2500
JUN												
09...	1300	367	220	6.9	15.0	17.0	10	6.0	9.7	100	1300	210
JUL												
08...	1415	190	240	7.1	26.0	23.0	14	3.0	10.4	120	860	140
AUG												
11...	1150	100	340	7.0	27.0	25.0	8	7.0	8.0	95	16000	340
SEP												
05...	0915	130	370	6.8	21.0	20.0	4	3.0	8.4	90	16000	240

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
09...	53000	10000	41	24	12	2.7	17	24	29	7.3	120	.16
NOV												
13...	16000	2000	--	--	--	--	--	--	21	--	96	.13
DEC												
10...	4800	500	--	--	--	--	--	--	23	--	100	.14
JAN												
22...	--	1900	47	--	14	2.9	21	29	31	7.7	141	.19
FEB												
11...	--	520	--	--	--	--	--	--	64	--	235	.32
MAR												
17...	--	920	--	--	--	--	--	--	42	--	128	.17
APR												
14...	--	800	23	11	6.5	1.7	12	14	11	5.4	62	.08
MAY												
12...	--	260	--	--	--	--	--	--	24	--	111	.15
JUN												
09...	--	K6	--	--	--	--	--	--	31	--	127	.17
JUL												
08...	--	48	45	26	13	3.0	19	28	35	6.3	150	.20
AUG												
11...	--	740	--	--	--	--	--	--	53	--	215	.29
SEP												
05...	--	140	--	--	--	--	--	--	46	--	228	.31

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

299

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 09...	162	135	--	--	1.2	.69	.83	.71	1.4	2.6	12
NOV 13...	202	118	.74	.01	.75	.42	.51	.50	.92	1.7	7.4
DEC 10...	140	119	.98	.02	1.0	.59	.71	.30	.89	1.9	8.4
JAN 22...	152	338	1.8	.04	1.8	1.4	1.7	.20	1.6	3.4	15
FEB 11...	131	245	2.5	.05	2.5	2.5	3.0	1.8	4.3	6.8	30
MAR 17...	148	153	1.3	.05	1.3	1.3	1.6	.20	1.5	2.8	12
APR 14...	472	100	--	--	.55	.23	.28	.34	.57	1.1	5.0
MAY 12...	290	122	.91	.05	.96	.79	.96	.31	1.1	2.1	9.1
JUN 09...	126	154	1.5	.03	1.5	.75	.91	.65	1.4	2.9	13
JUL 08...	76.9	149	--	--	1.9	.91	1.1	1.3	2.2	4.1	18
AUG 11...	58.0	223	3.4	.60	4.0	1.1	1.3	.10	1.2	5.2	23
SEP 05...	80.0	239	2.9	.21	3.1	.54	.65	.76	1.3	4.4	19

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 09...	.350	1.1	32	480	100	200	4.8	.00	1.37	.000
NOV 13...	.150	.46	23	--	--	30	7.8	--	--	--
DEC 10...	.270	.83	23	--	--	50	4.2	--	--	--
JAN 22...	.500	1.5	28	410	160	50	7.9	.08	.000	.000
FEB 11...	.750	2.3	32	--	--	100	10	--	--	--
MAR 17...	.310	.95	38	--	--	80	4.7	--	--	--
APR 14...	.090	.28	14	110	60	40	4.1	.10	1.88	.000
MAY 12...	.230	.71	42	--	--	60	5.4	--	--	--
JUN 09...	.330	1.0	35	--	--	50	4.1	--	--	--
JUL 08...	.500	1.5	57	240	130	40	6.0	.10	--	--
AUG 11...	.590	1.8	30	--	--	30	16	--	--	--
SEP 05...	.430	1.3	70	--	--	150	8.4	--	--	--

HOUSATONIC RIVER BASIN

01208736 NAUGATUCK RIVER AT ANSONIA, CT

LOCATION.--Lat 41°19'50", long 73°04'47", New Haven County, Hydrologic Unit 01100005, at bridge on Division Street, at Ansonia-Derby town line, and 1.2 mi (1.9 km) upstream from Housatonic River.

DRAINAGE AREA.--309 mi² (800 km²).

PERIOD OF RECORD.--Water years 1968, 1974, to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION	COLIFORM, TOTAL, IMMED. PER 100 ML	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	COLIFORM, 0.7 UM-MF (COLS./100 ML)
OCT 09...	1345	220	7.5	16.5	14.0	20	4.0	9.8	94	53000	--	32000
NOV 13...	1415	165	6.5	12.0	10.0	15	5.0	11.6	103	58000	--	12000
DEC 10...	1345	220	6.6	7.5	3.0	20	4.0	14.7	109	70000	--	21000
JAN 14...	1520	176	6.8	8.0	4.0	10	5.0	14.0	106	29000	8000	--
FEB 11...	1355	475	7.3	2.0	4.0	10	7.0	13.2	100	1000000	32000	--
MAR 17...	1320	285	6.7	12.0	5.0	5	4.0	12.0	94	10000	2000	--
APR 14...	1420	106	6.8	9.0	7.0	5	4.0	11.6	100	56000	18000	--
MAY 12...	1445	200	6.9	27.0	15.0	7	3.0	11.6	113	44000	11000	--
JUN 09...	1440	260	6.8	15.0	17.0	10	5.0	8.4	87	1400	120	--
JUL 08...	1315	235	6.9	25.0	23.0	15	2.0	8.9	102	220	120	--
AUG 11...	1310	410	6.8	28.0	26.5	11	1.0	7.2	88	3600	1500	--
SEP 04...	1330	330	7.1	31.0	24.0	5	2.0	9.4	110	920	130	--

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 09...	1800	41	18	12	2.7	23	26	27	7.9	127	.17
NOV 13...	2400	--	--	--	--	--	--	20	--	96	.13
DEC 10...	2100	--	--	--	--	--	--	23	--	103	.14
JAN 14...	3000	30	10	8.2	2.4	20	24	22	7.4	111	.15
FEB 11...	9500	--	--	--	--	--	--	52	--	212	.29
MAR 17...	960	--	--	--	--	--	--	37	--	144	.20
APR 14...	5100	25	12	7.0	1.8	13	14	12	6.0	68	.09
MAY 12...	860	--	--	--	--	--	--	28	--	127	.17
JUN 09...	20	--	--	--	--	--	--	33	--	155	.21
JUL 08...	240	42	24	12	2.9	18	28	31	6.8	141	.19
AUG 11...	64	--	--	--	--	--	--	57	--	244	.33
SEP 04...	K12	--	--	--	--	--	--	44	--	207	.28

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

HOUSATONIC RIVER BASIN

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01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 09...	144	--	--	2.2	.88	1.1	.62	1.5	3.7	16
NOV 13...	111	1.1	.04	1.1	.67	.81	.43	1.1	2.2	9.7
DEC 10...	126	2.5	.01	2.5	1.3	1.6	.10	1.4	3.9	17
JAN 14...	110	--	--	1.3	1.3	1.6	.60	1.9	3.2	14
FEB 11...	229	2.6	.11	2.7	3.5	4.2	8.5	12	15	65
MAR 17...	159	1.2	.19	1.4	3.2	3.9	.30	3.5	4.9	22
APR 14...	114	--	--	.71	.23	.28	.35	.58	1.3	5.7
MAY 12...	151	1.6	.07	1.7	.91	1.1	.19	1.1	2.8	12
JUN 09...	166	1.8	.14	1.9	1.4	1.7	.50	1.9	3.8	17
JUL 08...	140	--	--	2.1	1.4	1.7	.00	1.3	3.4	15
AUG 11...	264	3.5	.40	3.9	1.6	1.9	.10	1.7	5.6	25
SEP 04...	213	3.0	.23	3.2	.58	.70	.52	1.1	4.3	19
DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 09...	.490	1.5	44	460	120	70	9.0	.10	.000	.000
NOV 13...	.300	.92	22	--	--	40	4.6	--	--	--
DEC 10...	.510	1.6	28	--	--	70	4.6	--	--	--
JAN 14...	.410	1.3	23	150	100	80	5.7	.00	.000	.000
FEB 11...	.950	2.9	58	--	--	120	10	--	--	--
MAR 17...	.660	2.0	62	--	--	80	5.8	--	--	--
APR 14...	.180	.55	33	100	70	10	4.4	.10	1.25	.000
MAY 12...	.420	1.3	39	--	--	90	3.8	--	--	--
JUN 09...	.440	1.4	57	--	--	70	5.4	--	--	--
JUL 08...	.520	1.6	77	240	120	50	4.3	.10	5.60	.000
AUG 11...	.650	2.0	51	--	--	40	14	--	--	--
SEP 04...	.020	.06	35	--	--	30	7.1	--	--	--

HOUSATONIC RIVER BASIN

01208828 HOUSATONIC RIVER AT STRATFORD, CT

LOCATION.--Lat 41°12'01", long 73°06'39", on Fairfield-New Haven County line, Hydrologic Unit 01100005, at Washington Bridge on U.S. Highway 1, at Stratford, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--1,941 mi² (5,027 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)			SALIN- ITY PARTS PER THOU- SAND		TEMPER- ATURE, AIR (DEG C)		TEMPER- ATURE, WATER (DEG C)		COLOR (PLAT- INUM COBALT UNITS)		TUR- BID- ITY (NTU)		OXYGEN, DIS- SOLVED (MG/L)		OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	
DATE	TIME	SAMP- LING DEPTH (FT)		PH FIELD (UNITS)														
OCT 15...	1020	3.0	700	7.5	5.0	12.0	12.5	20	5.0	5.2	49							
JAN 14...	1530	3.0	6200	7.6	6.0	4.0	4.0	5	5.0	12.0	91							
APR 18...	0850	3.0	150	7.1	.00	9.0	10.0	5	3.0	11.7	104							
JUL 14...	0730	3.0	15000	7.7	7.0	24.0	22.0	5	3.0	6.8	77							
		COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)						
DATE	TIME																	
OCT 15...	14000	--	1400	120	780	720	65	150	1400	63	340							
JAN 18...	2900	380	--	160	1000	930	86	190	--	65	370							
APR 18...	4700	25	--	130	52	14	13	4.7	--	38	14							
JUL 14...	21000	96	--	K16	1400	1300	96	280	--	83	600							
		CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)						
DATE	TIME																	
OCT 15...	2600	4.2	4860	6.61	5330	.39	.17	.21	.51	.68	1.1							
JAN 18...	2900	4.9	5430	7.38	5740	.73	.30	.36	.28	.58	1.3							
APR 18...	15	5.2	91	.12	126	.58	.04	.05	.32	.36	.94							
JUL 14...	2200	.6	10600	14.4	11100	.35	.24	.29	.23	.47	.82							
		NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)						
DATE	TIME																	
OCT 15...	4.7	.080	.25	11	120	40	8	7.4	.20	.000	.000							
JAN 14...	5.8	.090	.28	11	80	50	20	3.9	.10	.000	.000							
APR 18...	4.2	.070	.21	11	60	40	40	3.1	.10	1.09	.000							
JUL 14...	3.6	.110	.34	11	0	70	0	3.2	.40	7.77	.000							

RESERVOIRS IN HOUSATONIC RIVER BASIN

- 01201000 LAKE CANDLEWOOD (ROCKY RIVER RESERVOIR).--Lat 41°35'00", long 73°26'00", Litchfield County, Conn., Hydrologic Unit 01100005, on Rocky River, 2 mi (3 km) west of New Milford. Drainage area, 40.5 mi² (104.9 km²). Usable capacity, 6,210,000,000 ft³ (176 hm³). Records available, August 1928 to current year. Completed in 1928 for storage of water for power; impounds water pumped from the Housatonic River during off peak power periods. Records furnished by Connecticut Light and Power Company.
- 01201999 CAIRNS RESERVOIR.--Lat 41°44'40", long 73°18'05", Litchfield County, Conn., Hydrologic Unit 01100005, on West Branch Shepaug River, 2.6 mi (4.2 km) north of Woodville. Drainage area, 10.2 mi² (26.4 km²). Usable capacity, 360,000,000 ft³ (10.2 hm³). Records available November 1964 to current year. Completed in 1964 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01202000 SHEPAUG RESERVOIR.--Lat 41°43'24", long 73°17'37", Litchfield County, Conn., Hydrologic Unit 01100005, on Shepaug River 1 mi (2 km) north of Woodville. Drainage area, 38.0 mi² (98.4 km²). Usable capacity, 96,100,000 ft³ (2.72 hm³), of which 76,900,000 ft³ (2.18 hm³) can be diverted for municipal supply. Storage below diversion intake can be released through floodgates or through a fountain at toe of dam. Records available, January 1933 to current year. Completed in September 1933 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01203500 LAKE LILLINONAH.--Lat 41°26'52", long 73°17'49", New Haven County, Conn., Hydrologic Unit 01100005, on Housatonic River, and Fairfield County, Conn., 2.3 mi (3.7 km) north of Newtown. Drainage area, 1,392 mi² (3,605 km²). Usable capacity above taintor gate sills, 1,756,000,000 ft³ (49.73 hm³). Normal operating volume, 235,000,000 ft³ (6.66 hm³). Records available, January 1955 to current year. Completed in 1955 for storage of water for power. Records furnished by Connecticut Light and Power Company.
- 01205000 LAKE ZOAR.--Lat 41°23'00", long 73°10'18", Fairfield County, Conn., Hydrologic Unit 01100005, on Housatonic River at Stevenson. Drainage area 1,541 mi² (3,991 km²). Usable capacity, 340,000,000 ft³ (9.63 hm³), revised. Records available, August 1928 to current year. Completed in 1919 for storage of water for power. Records furnished by Connecticut Light and Power Company.
- 01205560 HALL MEADOW BROOK DETENTION RESERVOIR.--Lat 41°52'10", long 73°10'04", Litchfield County, Conn., Hydrologic Unit 01100005, on Hall Meadow Brook in West Branch Naugatuck River basin, 5.2 mi (8.4 km) north of Torrington. Drainage area, 12.0 mi² (31.1 km²). Usable capacity, 375,000,000 ft³ (10.6 hm³). Records available, October 1964 to current year. Completed in 1962 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01205610 LAKE WINCHESTER.--Lat 41°54'27", long 73°09'08", Litchfield County, Conn., Hydrologic Unit 01100005, 1 mi (2 km) northwest of Winchester on East Branch Naugatuck River. Drainage area, 2.18 mi² (5.65 km²). Usable capacity, 116,200,000 ft³ (3.291 hm³) based on lake survey by the Connecticut Board of Fisheries and Game. Records available, September 1965 to current year. Completed in 1926 for storage of water for power. Lake is presently used for conservation and recreation.
- 01205650 EAST BRANCH DETENTION RESERVOIR.--Lat 41°50'13", long 73°07'15", Litchfield County, Conn., Hydrologic Unit 01100005, on East Branch Naugatuck River, 2.3 mi (3.7 km) north of Torrington. Drainage area, 9.30 mi² (24.09 km²). Usable capacity, 189,500,000 ft³ (5.367 hm³). Records available, March 1965 to current year. Completed in 1964 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01206600 THOMASTON RESERVOIR.--Lat 41°41'41", long 73°03'44", Litchfield County, Conn., Hydrologic Unit 01100005, on Naugatuck River 0.2 mi (0.3 km) downstream from Leadmine Brook, 1.5 mi (2.4 km) north of Thomaston, and at mile 31.0 (49.9 km). Drainage area, 96.1 mi² (248.9 km²). Usable capacity, 1,830,000,000 ft³ (51.8 hm³). Records available, January 1961 to current year. Completed in December 1960 by Corps of Engineers for flood control. Records furnished by Corps of Engineers.
- 01206940 NORTHFIELD BROOK LAKE.--Lat 41°40'48", long 73°05'27", Litchfield County, Conn., Hydrologic Unit 01100005, on Northfield Brook in Naugatuck River basin, 1 mi (2 km) northwest of Thomaston. Drainage area, 5.52 mi² (14.30 km²). Usable capacity, 104,000,000 ft³ (2.95 hm³). Permanent pool capacity, 3,600,000 ft³ (102,000 m³). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.
- 01207000 PITCH RESERVOIR.--Lat 41°41'34", long 73°09'04", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 4 mi (6.4 km) northwest of Thomaston. Drainage area, 5.93 mi² (15.36 km²). Usable capacity, 189,000,000 ft³ (5.35 hm³). Records available, October 1943 to current year. Completed in 1943 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01207500 MORRIS RESERVOIR.--Lat 41°40'29", long 73°08'39", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 3.5 mi (5.6 km) west of Thomaston. Drainage area, including Pitch Reservoir, 13.0 mi² (33.7 km²). Usable capacity, 265,600,000 ft³ (7.522 hm³). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1913 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01208000 WIGWAM RESERVOIR.--Lat 41°39'50", long 73°07'41", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 3 mi (5 km) west of Thomaston. Drainage area, including Pitch and Morris Reservoirs, 17.5 mi² (45.3 km²). Usable capacity, 98,500,000 ft³ (2.79 hm³). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1902 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

HOUSATONIC RIVER BASIN

RESERVOIRS IN HOUSATONIC RIVER BASIN--Continued

01208011 BLACK ROCK LAKE.--Lat 41°39'26", long 73°06'13", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 1.8 mi (2.9 km) southwest of Thomaston. Drainage area, 20.5 mi² (53.1 km²). Usable capacity, 373,000,000 ft³ (10.6 hm³). Permanent pool capacity, 11,543,000 ft³ (326,900 m³). Records available, October 1970 to current year. Completed in 1970 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208130 HANCOCK BROOK LAKE.--Lat 41°37'23", long 73°02'12", Litchfield County, Conn., Hydrologic Unit 01100005, on Hancock Brook in Naugatuck River basin, 1.1 mi (1.8 km) southwest of Hancock. Drainage area, 11.9 mi² (30.8 km²). Usable capacity 170,000,000 ft³ (4.81 hm³). Permanent pool capacity, 5,700,000 ft³ (161,000 m³). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208410 HOP BROOK LAKE.--Lat 41°30'50", long 73°04'03", New Haven County, Conn., Hydrologic Unit 01100005, on Hop Brook in Naugatuck River basin, 1.2 mi (1.9 km) northwest of Union City. Drainage area, 16.0 mi² (41.4 km²). Usable capacity, 304,000,000 ft³ (8.61 hm³). Records available, February 1969 to current year. Completed in 1969 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	01201000	01201999	01202000	01203500	0120500	01205560	01205610
	LAKE CANDLEWOOD	CAIRNS RESERVOIR	SHEPAUG RESERVOIR	LAKE LILLINONAH	LAKE ZOAR	HALL MEADOW BROOK DETENTION RESERVOIR	LAKE WINCHESTER
Sept. 30, 1979....	5726	308	98.4	1582	294.1	1.2	116.2
Oct. 31.....	5714	362	97.3	1605	294.1	1.0	116.2
Nov. 30.....	4464	363	98.3	1605	294.1	7.6	116.2
Dec. 31.....	4148	364	97.7	1660	249.0	7.2	116.2
Jan. 31, 1980....	4193	362	96.1	1404	289.6	3.9	116.2
Feb. 29.....	4216	360	63.2	1447	303.3	.6	116.2
Mar. 31.....	5440	366	100.0	1264	368.0	8.5	116.2
Apr. 30.....	6016	363	98.8	1521	249.0	8.2	116.2
May 31.....	5559	359	82.6	1621	330.8	.6	116.2
June 30.....	5583	333	69.3	1668	303.3	1.3	115.5
July 31.....	5666	292	67.2	1567	298.7	.5	114.6
Aug. 31.....	5654	180	65.9	1621	307.9	3.4	113.4
Sept. 30.....	5468	102.5	56.7	1582	307.9	.4	111.9

Date	01205650 EAST BRANCH DETENTION RESERVOIR	01206600 THOMASTON RESERVOIR	01206940 NORTHFIELD BROOK LAKE	01207000 PITCH RESERVOIR	01207500 MORRIS RESERVOIR
Sept. 30, 1979....	0.1	0.3	5.7	175.4	243.1
Oct. 31.....	.1	.3	.5	189.6	259.6
Nov. 30.....	.1	.5	.6	189.4	267.8
Dec. 31.....	.1	.4	4.9	189.6	267.6
Jan. 31, 1980....	.1	.2	4.8	189.5	264.7
Feb. 29.....	.1	.2	4.8	189.6	257.9
Mar. 31.....	.5	3.6	5.1	186.4	267.8
Apr. 30.....	.1	7.4	5.0	183.8	267.9
May 31.....	.1	.2	4.9	189.7	267.1
June 30.....	.1	.6	4.9	190.0	256.6
July 31.....	.1	.2	4.8	189.6	249.1
Aug. 31.....	.1	.2	4.8	189.9	243.2
Sept. 30.....	.1	.2	.6	189.8	241.6

Date	01208000 WIGWAM RESERVOIR	01208011 BLACK ROCK LAKE	01208130 HANCOCK BROOK LAKE	01208410 HOP BROOK LAKE
Sept. 30, 1979...	99.0	13.3	7.8	0.8
Oct. 31.....	98.8	11.8	8.4	.8
Nov. 30.....	97.2	13.5	8.8	.8
Dec. 31.....	99.3	13.5	5.1	.8
Jan. 31, 1980 ..	99.0	13.3	4.9	.8
Feb. 29.....	98.8	13.3	4.9	.8
Mar. 31.....	99.6	13.7	6.3	1.5
Apr. 30.....	99.2	13.5	9.2	6.0
May 31.....	98.8	13.3	8.4	5.4
June 30.....	99.0	13.6	8.1	6.2
July 31.....	98.6	13.1	7.4	5.5
Aug. 31.....	98.6	13.2	6.6	4.8
Sept. 30.....	72.3	13.2	5.7	.1

ROOSTER RIVER BASIN

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01208873 ROOSTER RIVER AT FAIRFIELD, CT

LOCATION.--Lat 41°10'33", long 73°13'25", Fairfield County, Hydrologic Unit 01100006, on right bank upstream from U.S. Highway 1 (North Avenue), by Mount Grove Cemetery, Fairfield.

DRAINAGE AREA.--10.9 mi² (28.2 km²).

PERIOD OF RECORD.--June 30, 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.38 ft (0.725 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, stage sometimes affected by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft³/s (61.5 m³/s) Apr. 9, 1980, gage height 11.65 ft (3.551 m); minimum, 0.44 ft³/s (0.012 m³/s) Sept. 30, 1980, gage height, 2.81 ft (0.856 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft³/s (61.5 m³/s) Apr. 9, gage height, 11.65 ft (3.551 m); minimum, 0.44 ft³/s (0.012 m³/s) Sept. 30, gage height, 2.81 ft (0.856 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	4.2	5.6	8.8	4.2	6.0	42	34	11	9.0	3.8	1.0
2	11	4.6	5.2	8.6	3.7	6.6	28	30	11	5.8	12	26
3	22	4.7	4.8	8.1	3.5	6.7	25	26	10	6.8	9.0	3.7
4	7.7	8.5	4.7	7.8	3.5	5.5	95	24	5.9	6.0	6.0	1.4
5	19	6.4	4.3	8.0	3.5	6.6	41	22	5.3	5.4	4.5	1.1
6	14	5.6	4.8	8.4	3.5	5.3	28	21	20	6.0	3.5	.84
7	7.3	5.4	11	8.0	3.5	5.1	24	37	6.5	3.5	2.4	.84
8	6.3	5.2	9.0	7.8	3.5	9.7	24	31	5.7	3.0	2.2	.89
9	14	5.0	6.6	7.2	3.5	8.2	130	20	14	2.8	1.7	.80
10	23	6.0	5.5	7.0	3.5	14	148	19	5.7	2.6	1.9	.80
11	10	9.0	5.2	28	3.5	80	98	28	5.3	2.4	2.4	.84
12	15	23	5.2	26	3.6	12	71	30	4.9	2.2	2.6	.80
13	9.9	12	7.0	10	3.6	9.7	56	22	4.5	2.0	2.0	.53
14	7.5	11	11	10	3.7	31	87	18	4.4	1.8	1.9	.61
15	6.7	9.6	8.0	10	4.2	15	75	16	4.4	1.6	1.9	.80
16	6.1	9.0	6.0	9.6	6.0	13	50	15	4.4	1.4	1.6	.80
17	5.7	8.8	6.8	9.6	7.0	25	42	15	3.9	1.3	1.4	7.1
18	5.5	8.3	6.0	9.8	5.8	85	38	18	3.9	1.2	1.8	56
19	5.0	8.0	5.3	13	4.7	22	35	16	4.2	1.1	2.1	2.1
20	5.1	8.0	4.7	12	5.3	18	33	27	4.0	1.0	2.7	1.2
21	5.0	7.5	4.7	10	6.0	158	31	26	3.4	1.0	2.0	1.1
22	4.7	7.4	5.1	10	7.7	229	29	11	3.4	1.1	1.5	1.6
23	5.0	7.4	5.1	12	12	58	28	9.2	3.1	1.3	1.1	1.0
24	5.1	6.4	10	10	6.9	41	24	8.4	2.8	1.2	1.2	1.5
25	4.7	7.5	23	7.2	6.0	69	26	7.4	2.4	1.1	1.5	2.2
26	4.7	4.2	15	6.7	5.7	38	24	7.1	2.1	1.0	1.3	3.7
27	4.6	12	12	6.4	6.3	31	42	6.8	1.9	1.0	1.1	3.9
28	9.1	8.8	11	6.6	6.7	27	149	6.5	1.9	10	1.1	3.9
29	6.0	8.4	10	6.0	6.4	34	60	6.2	5.0	32	1.3	2.5
30	4.4	6.0	9.5	5.6	---	38	40	5.9	16	15	.89	.61
31	4.4	---	9.0	5.0	---	67	---	7.1	---	7.0	.98	---
TOTAL	304.5	318.0	241.1	303.2	147.0	1174.4	1623	570.6	181.0	138.6	81.37	130.16
MEAN	9.82	10.6	7.78	9.78	5.07	37.9	54.1	18.4	6.03	4.47	2.62	4.34
MAX	46	47	23	28	12	229	149	37	20	32	12	56
MIN	4.4	4.2	4.3	5.0	3.5	5.1	24	5.9	1.9	1.0	.89	.53

CAL YR 1979 TOTAL 8600.50 MEAN 23.6 MAX 858 MIN 1.4
WTR YR 1980 TOTAL 5212.93 MEAN 14.2 MAX 229 MIN .53

MILL RIVER BASIN

01208925 MILL RIVER NEAR FAIRFIELD, CT

LOCATION.--Lat 41°09'55", long 73°16'14", Fairfield County, Hydrologic Unit 01100006, on right bank just downstream from bridge on Duck Farm Road, 1.5 mi (2.4 km) north of Fairfield, 18.3 mi (29.4 km) downstream from headwater of Aspetuck River, 14.0 mi (22.5 km) downstream from headwater of Mill River, and 2.3 mi (3.7 km) upstream from mouth at Southport Harbor.

DRAINAGE AREA.--28.5 mi² (73.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 15.89 ft (4.843 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow completely regulated by Easton, Hemlock, and Samp Mortar Reservoirs, usable capacity 609,900,000 ft³ (17.3 hm³), diversions into Hemlock Reservoir from Aspetuck Reservoir in the Aspetuck River basin and by diversions from Hemlock and Easton Reservoirs by the Bridgeport Hydraulic Company for water supply of the cities of Bridgeport and Fairfield.

AVERAGE DISCHARGE.--8 years, 45.4 ft³/s (1.286 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s (51.0 m³/s) Apr. 10, 1980, gage height, 7.15 ft (2.179 m); minimum, no flow on Nov. 7, 1979 (reg.).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,800 ft³/s (51.0 m³/s) Apr. 10, gage height 7.15 ft (2.179 m); minimum, no flow on Nov. 7 (reg.).

REVISIONS.--Revised maximum discharges in cubic feet per second for 1973, 74, 76-79 are given below. These figures supersede those published in WRDC 1973-74, and WDR CT-76-1 to 79-1.

Date	Discharge (ft ³ /s) (m ³ /s)	Date	Discharge (ft ³ /s) (m ³ /s)
June 30, 1973	955 27.0	Mar. 23, 1977	840 23.8
Sept. 3, 1974	1020 28.9	Jan. 26, 1978	1080 30.6
Jan. 28, 1976	1040 29.5	Jan. 21, 1979	1400 39.6

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.0	33	29	12	10	163	115	19	14	21	2.2
2	27	7.0	31	27	11	9.1	130	94	17	15	19	2.9
3	27	30	29	26	10	8.4	110	90	18	14	18	4.1
4	26	23	26	23	9.1	7.7	154	87	16	10	16	2.6
5	23	20	22	22	8.4	8.4	181	82	14	8.7	15	2.6
6	23	13	20	20	7.7	8.4	128	75	12	9.2	11	2.9
7	22	.00	22	19	7.7	8.4	104	69	14	7.7	7.7	8.7
8	17	.20	22	17	7.7	10	95	69	13	7.7	6.6	3.2
9	14	1.2	21	17	8.4	12	213	66	14	6.6	5.7	2.2
10	17	3.5	19	15	8.4	13	1270	64	14	6.1	5.2	1.8
11	21	5.6	17	17	8.4	31	663	60	14	6.1	5.2	1.3
12	21	11	15	25	7.7	25	328	58	14	5.2	4.8	1.3
13	21	14	19	26	7.7	25	210	57	16	4.8	4.5	1.3
14	20	15	20	26	7.7	25	183	54	17	4.5	4.1	1.8
15	17	22	20	26	7.7	23	263	51	17	4.5	3.8	1.6
16	14	26	20	25	8.0	22	191	46	16	4.1	3.5	1.4
17	12	29	20	23	8.0	25	143	43	15	3.8	6.1	2.0
18	11	26	20	21	9.0	60	114	41	15	3.5	5.7	11
19	10	19	19	22	10	103	103	38	13	3.5	3.8	8.2
20	6.3	2.1	17	22	11	69	99	35	12	3.2	2.0	4.5
21	3.5	4.4	15	21	10	88	96	37	11	2.9	2.0	3.2
22	3.9	13	15	21	11	664	91	31	9.7	2.6	2.0	2.6
23	14	13	14	21	13	593	87	35	8.7	2.2	2.2	2.4
24	17	13	15	20	14	304	79	35	7.7	2.2	2.0	2.0
25	10	13	30	20	14	261	75	33	6.6	2.0	2.2	2.0
26	7.7	13	31	17	14	201	65	29	5.2	3.5	2.2	2.2
27	7.0	17	31	17	14	148	58	27	5.7	3.8	2.2	2.0
28	8.4	9.1	31	15	12	124	80	27	5.7	2.9	2.4	2.0
29	11	7.7	31	14	12	116	161	25	4.5	5.2	2.4	1.8
30	9.0	26	30	14	---	136	158	24	14	16	2.4	2.4
31	8.0	---	29	13	---	155	---	22	---	21	2.4	---
TOTAL	462.8	403.80	704	641	289.6	3293.4	5795	1619	378.8	206.5	193.1	90.2
MEAN	14.9	13.5	22.7	20.7	9.99	106	193	52.2	12.6	6.66	6.23	3.01
MAX	27	30	33	29	14	664	1270	115	19	21	21	11
MIN	3.5	.00	14	13	7.7	7.7	58	22	4.5	2.0	2.0	1.3
CAL YR 1979	TOTAL	21587.00	MEAN	59.1	MAX	800	MIN	.00				
WTR YR 1980	TOTAL	14077.20	MEAN	38.5	MAX	1270	MIN	.00				

SASCO BROOK BASIN

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01208950 SASCO BROOK NEAR SOUTHPORT, CT

LOCATION.--Lat 41°09'10", long 73°18'23", Fairfield County, Hydrologic Unit 01100006, on left downstream abutment of bridge on Hulls Farm Road, 1.5 mi (2.4 km) northwest of Southport.

DRAINAGE AREA.--7.27 mi² (18.83 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1961-64. October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 52.01 ft (15.853 m) National Geodetic Vertical Datum of 1929. Sept. 6, 1960, to Oct. 6, 1964, crest-stage gage, Oct. 7, 1964 to June 16, 1966, water-stage recorder, and June 17, 1966, to Apr. 27, 1969, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 13.8 ft³/s (0.391 m³/s), 25.78 in/yr (655 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) June 19, 1972, gage height, 7.00 ft (2.134 m); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 28, Oct. 1, 2, 6-12, 1964, Aug. 13, 14, Aug. 29 to Sept. 3, 1966, July, 24, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

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. 22	0400	352 9.97	3.76 1.146	Apr. 10	0130	*1,260 35.7	*6.27 1.911

Minimum discharge, 0.80 ft³/s (0.002 m³/s) est. Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	5.9	11	12	3.9	3.6	65	28	5.9	4.3	1.4	.09
2	26	5.5	9.6	12	3.5	3.2	35	23	7.2	3.2	4.3	.10
3	22	20	8.4	11	3.4	3.0	28	20	12	4.0	3.4	.80
4	21	15	7.8	9.8	3.4	3.1	74	17	9.9	2.9	1.9	.41
5	16	9.6	7.3	9.6	3.4	3.9	64	15	5.9	3.2	1.4	.35
6	14	7.3	7.3	8.4	3.3	4.5	33	14	4.0	3.4	1.1	.25
7	10	6.8	25	8.5	3.5	4.6	26	14	8.4	2.3	1.0	.10
8	11	6.3	18	9.0	3.5	7.3	23	32	8.0	1.7	.90	.09
9	12	5.9	13	8.1	3.5	11	106	22	7.2	1.4	.70	.09
10	19	7.8	11	7.0	3.5	8.7	487	15	11	1.2	.54	.10
11	15	13	9.6	9.6	3.5	61	112	14	6.9	1.2	.41	.10
12	14	33	9.0	30	3.6	18	68	22	4.9	1.1	.35	.10
13	14	16	16	14	3.6	12	50	25	4.3	.90	.35	.10
14	11	15	24	12	3.6	19	57	17	3.7	.79	.30	.10
15	9.0	13	16	12	3.9	18	87	12	3.4	.70	.30	.10
16	7.3	12	13	11	6.5	16	46	11	3.2	.61	.25	.09
17	6.8	12	14	10	6.9	18	34	9.9	2.7	.61	.15	.10
18	6.8	11	12	10	5.0	76	29	11	2.5	.54	.14	.38
19	7.3	10	9.0	13	4.5	33	27	12	2.3	.47	.14	.20
20	7.3	9.6	7.3	12	5.0	22	23	11	2.3	.47	.14	.14
21	7.3	9.0	7.3	10	6.1	87	21	31	2.3	.41	.13	.13
22	7.3	8.4	8.4	9.7	6.7	266	18	25	1.9	.41	.13	.12
23	7.3	7.8	10	12	10	101	17	12	1.5	.47	.12	.11
24	6.8	7.8	12	9.2	11	58	15	9.5	1.4	.47	.12	.12
25	6.3	7.8	56	7.0	9.5	85	15	8.4	1.1	.41	.11	.11
26	6.3	18	33	6.5	7.7	57	14	6.5	1.1	.26	.11	.11
27	5.5	29	18	6.1	6.2	38	17	6.2	1.0	.18	.11	.10
28	6.8	18	15	6.3	5.4	31	84	5.3	1.0	5.6	.10	.09
29	11	14	14	5.9	4.2	33	91	4.9	4.9	8.4	.10	.09
30	8.4	12	13	5.2	---	52	38	4.6	8.8	3.4	.09	.08
31	6.3	---	13	4.7	---	63	---	4.9	---	1.9	.09	---
TOTAL	345.8	366.5	448.0	311.6	147.8	1216.9	1804	463.2	140.7	56.90	20.38	4.85
MEAN	11.2	12.2	14.5	10.1	5.10	39.3	60.1	14.9	4.69	1.84	.66	.16
MAX	26	33	56	30	11	266	487	32	12	8.4	4.3	.80
MIN	5.5	5.5	7.3	4.7	3.3	3.0	14	4.6	1.0	.18	.09	.08
CFSM	1.54	1.68	1.99	1.39	.70	5.41	8.27	2.05	.65	.25	.09	.02
IN.	1.77	1.88	2.29	1.59	.76	6.23	9.23	2.37	.72	.29	.10	.02

CAL YR 1979 TOTAL 7412.57 MEAN 20.3 MAX 329 MIN .58 CFSM 2.79 IN 37.92
WTR YR 1980 TOTAL 5326.63 MEAN 14.6 MAX 487 MIN .08 CFSM 2.01 IN 27.25

LOCATION.--Lat 41°17'40", long 73°23'44", Fairfield County, Hydrologic Unit 01100006, on left downstream side of bridge on State Highway 53, 100 ft (30 m) south of intersection of State Highways 53 and 107, 0.8 mi (1.3 km) upstream from Saugatuck Reservoir, and 1.0 mi (1.6 km) southwest of Redding.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 285.42 ft (86.996 m) National Geodetic Vertical Datum of 1929. Nov. 7, 1961, to Oct. 4, 1964, crest-stage gage, Oct. 1, 1964 to Apr. 25, 1966, water-stage recorder, and Apr. 26, 1966 to Sept. 30, 1969, nonrecording gage and crest-stage gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s (61.2 m³/s) Mar. 25, 1969, gage height, 5.88 ft (1.792 m); minimum observed, 0.05 ft³/s (0.001 m³/s) Sept. 2, 1966, gage height, 0.66 ft (0.201 m).

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)
Nov. 26	2400	259	7.33	3.23	0.985	Mar. 31	2000	180	5.10	2.90	0.884
Mar. 18	0500	202	5.72	3.01	0.917	Apr. 10	0100	1,270	36.0	5.12	1.561
Mar. 22	0900	*1,580	44.7	*5.43	1.655	Apr. 29	0030	180	5.10	2.90	0.884

REVISIONS.--Revised maximum discharges in cubic feet per second for 1976-79 are given below. These figures supersede those published in WRD CT 76-1 to WRD CT 79-1.

Date	Discharge	
	(ft ³ /s)	(m ³ /s)
Jan. 28, 1976	590	16.7
Mar. 22, 1977	700	19.8
Mar. 27, 1978	750	21.2
Jan. 21, 1979	850	24.1

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	65	44	17	23	150	88	16	13	2.3	.16
2	30	14	58	42	16	16	125	70	16	10	2.0	.16
3	32	45	57	39	15	17	106	61	18	11	3.8	.18
4	40	49	49	34	14	13	134	54	18	9.2	3.2	.17
5	34	38	45	32	13	12	120	47	13	7.7	2.6	.16
6	35	29	44	32	13	14	100	44	11	10	2.3	.16
7	24	25	72	31	12	14	93	41	16	8.6	1.8	.16
8	20	23	54	28	12	18	81	82	16	6.4	1.5	.15
9	20	21	48	26	12	24	281	67	14	5.1	1.2	.13
10	27	27	51	30	12	21	853	54	14	4.4	.74	.16
11	36	34	46	41	12	90	385	46	12	4.0	.65	.16
12	34	72	39	118	12	46	237	53	11	3.4	.80	.13
13	36	53	48	67	13	32	182	52	8.9	2.7	.69	.12
14	30	50	52	53	13	33	167	46	8.0	2.2	.69	.12
15	26	41	41	53	14	33	200	38	7.4	1.9	.74	.12
16	22	36	39	47	15	30	160	33	7.2	1.6	.65	.11
17	19	34	41	41	23	43	127	29	6.4	1.7	.49	.11
18	20	31	33	39	26	160	106	30	5.8	1.4	.35	1.8
19	18	28	39	44	18	100	92	31	5.3	1.1	.32	2.9
20	17	30	34	39	15	82	81	28	5.1	.98	.54	2.2
21	16	30	28	37	15	395	73	51	4.8	.92	.35	1.7
22	18	27	29	32	16	1300	64	50	4.4	.92	.35	1.4
23	18	26	32	34	17	520	57	38	4.0	3.6	.28	.98
24	16	24	38	30	20	272	53	31	3.6	4.6	.25	.69
25	16	23	127	29	20	242	50	26	3.4	2.7	.20	.65
26	14	89	97	27	18	193	46	21	2.9	1.9	.19	.74
27	13	186	77	25	22	152	45	18	2.9	1.4	.17	.60
28	14	141	65	23	20	128	110	16	2.4	1.1	.16	.60
29	18	97	57	21	25	120	149	15	3.6	4.0	.16	.60
30	16	78	53	20	---	143	116	13	26	5.6	.16	.65
31	14	---	48	18	---	145	---	13	---	3.2	.16	---
TOTAL	709	1415	1606	1176	470	4431	4543	1286	287.1	136.32	29.79	17.97
MEAN	22.9	47.2	51.8	37.9	16.2	143	151	41.5	9.57	4.40	.96	.60
MAX	40	186	127	118	26	1300	853	88	26	13	3.8	2.9
MIN	13	14	28	18	12	12	45	13	2.4	.92	.16	.11
CFSM	1.10	2.27	2.49	1.82	.78	6.88	7.26	2.00	.46	.21	.05	.03
IN.	1.27	2.53	2.87	2.10	.84	7.92	8.12	2.30	.51	.24	.05	.03
CAL YR 1979	TOTAL	21845.20	MEAN	59.8	MAX	730	MIN	2.0	CFSM	2.88	IN	39.07
WTR YR 1980	TOTAL	16107.18	MEAN	44.0	MAX	1300	MIN	.11	CFSM	2.12	IN	28.81

SAUGATUCK RIVER BASIN

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01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966, June 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT												
11...	1240	36	165	7.1	7.0	8.0	35	4.0	11.8	102	580	--
NOV												
15...	0830	41	145	6.6	9.0	6.0	25	3.0	12.5	101	92	--
DEC												
13...	0900	38	165	6.5	4.5	4.0	20	3.0	13.2	100	56	--
JAN												
17...	1400	40	155	7.1	6.0	2.0	5	2.0	14.2	102	1000	K7
FEB												
14...	1045	12	185	7.8	3.5	.5	5	1.0	14.5	101	31	K2
MAR												
20...	0840	83	131	7.2	6.5	3.0	5	3.0	13.5	100	44	22
APR												
17...	0925	128	113	7.2	5.0	6.0	10	1.0	12.6	101	540	40
MAY												
15...	0910	39	140	7.0	15.0	15.0	10	3.0	10.0	98	5100	50
JUN												
12...	0845	11	155	7.2	13.5	12.0	10	3.0	10.2	94	520	29
JUL												
10...	1345	3.7	160	8.1	27.0	24.0	16	1.0	10.6	128	580	K12
AUG												
14...	0840	.70	190	7.2	19.0	19.0	12	1.0	7.8	84	14000	28
SEP												
03...	1550	.60	198	7.5	30.0	22.0	5	1.0	9.2	104	660	63

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT												
11...	88	220	63	12	17	4.9	51	7.9	13	9.2	103	.14
NOV												
15...	56	88	--	--	--	--	--	--	12	--	95	.13
DEC												
13...	27	360	--	--	--	--	--	--	13	--	97	.13
JAN												
17...	--	54	59	9	16	4.6	50	14	12	8.0	112	.15
FEB												
14...	--	<1	--	--	--	--	--	--	14	--	108	.15
MAR												
20...	--	36	--	--	--	--	--	--	12	--	101	.14
APR												
17...	--	K12	45	3	12	3.7	42	11	9.6	5.6	82	.11
MAY												
15...	--	K14	--	--	--	--	--	--	9.8	--	93	.13
JUN												
12...	--	K12	--	--	--	--	--	--	9.5	--	103	.14
JUL												
10...	--	220	71	9	19	5.8	62	9.8	11	5.7	109	.15
AUG												
14...	--	340	--	--	--	--	--	--	9.8	--	116	.16
SEP												
03...	--	160	--	--	--	--	--	--	10	--	120	.16

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

SAUGATUCK RIVER BASIN

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 11...	10.0	116	--	--	.12	.00	.00	.32	.32	.44	1.9
NOV 15...	10.5	111	.08	.01	.09	.00	.00	.27	.27	.36	1.6
DEC 13...	9.95	105	.16	.00	.16	.03	.04	.13	.16	.32	1.4
JAN 17...	12.1	107	--	--	.24	.01	.01	.14	.15	.39	1.7
FEB 14...	3.50	114	.24	.00	.24	.03	.04	.17	.20	.44	1.9
MAR 20...	22.6	90	.29	.01	.30	.13	.16	.18	.31	.61	2.7
APR 17...	28.3	94	--	--	.17	.00	.00	.04	.04	.21	.93
MAY 15...	9.79	94	.12	.00	.12	.02	.02	.15	.17	.29	1.3
JUN 12...	3.06	112	.28	.01	.29	.01	.01	.24	.25	.54	2.4
JUL 10...	1.09	104	--	--	.11	.16	.19	.23	.39	.50	2.2
AUG 14...	.22	120	.14	.01	.15	.08	.10	.07	.15	.30	1.3
SEP 03...	.19	127	.13	.00	.13	.01	.01	.32	.33	.46	2.0

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 11...	.020	.06	2	130	6	1	8.2	.00	.000	.000
NOV 15...	.010	.03	2	--	--	10	5.7	--	--	--
DEC 13...	.010	.03	1	--	--	10	3.1	--	--	--
JAN 17...	.000	.00	1	60	7	30	2.6	.00	.000	.000
FEB 14...	.020	.06	1	--	--	10	4.0	--	--	--
MAR 20...	.050	.15	1	--	--	10	3.3	--	--	--
APR 17...	.010	.03	2	60	10	10	2.9	.10	1.84	.000
MAY 15...	.020	.06	0	--	--	10	4.2	--	--	--
JUN 12...	.020	.06	0	--	--	0	5.2	--	--	--
JUL 10...	.030	.09	3	110	10	8	4.3	.00	2.19	.000
AUG 14...	.030	.09	2	--	--	10	7.2	--	--	--
SEP 03...	.490	1.5	1	--	--	0	4.0	--	--	--

NORWALK RIVER BASIN

311

01209700 NORWALK RIVER AT SOUTH WILTON, CT

LOCATION.--Lat 41°09'49", long 73°25'11", Fairfield County, Hydrologic Unit 01100006, on right bank at upstream side of bridge on Kent Road at South Wilton, 2.5 mi (4.0 km) north of Norwalk.

DRAINAGE AREA.--30.0 mi² (77.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-62. September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 115.69 ft (35.262 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Occasional regulation at low flow by mill upstream. City of Norwalk diverts an indeterminate amount of water from Streets (Popes) Pond, drainage area 2.36 mi² (6.11 km²).

AVERAGE DISCHARGE.--18 years, 57.6 ft³/s (1.631 m³/s), 26.09 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s (81.8 m³/s) Apr. 10, 1980, gage height, 6.27 ft (1.911 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 24, 1964, gage height, 0.82 ft (0.250 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a stage of 13.5 ft (4.12 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

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)				
Nov. 26	2230	302	8.55	2.56	0.780	Mar. 22	0900	2130	60.3	5.34	1.628
Dec. 25	1330	340	9.63	2.62	0.799	Apr. 10	0230	*2890	81.8	*6.27	1.911
Mar. 18	0330	335	9.49	2.61	0.796						

Minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 1-4, 15-17, 30, gage height 0.88 ft (0.268 m).

REVISIONS.--Revised maximum daily, monthly, and yearly discharges, in cubic feet per second, and runoff for water years 1968-79, are given below. These figures supersede those published in WSP 2101, WRDC annual reports 1971-74, and WDR CT 75-1 to 79-1.

Daily		Monthly			Annual			Momentary		Maximum	
Date	Mean	Date	Mean	CFSM	IN	Year	Mean	CFSM	IN	Date	Discharge
-	-	-	-	-	-	-	-	-	-	May 29, 1968	1020
-	-	-	-	-	-	-	-	-	-	Mar. 25, 1969	1100
-	-	-	-	-	-	-	-	-	-	Apr. 2, 1970	1320
Sept. 14, 1971	886	-	-	-	-	-	-	-	-	Sept 14, 1971	1360
June 19, 1972	1090	-	-	-	-	-	-	-	-	June 19, 1972	1690
Feb. 3, 1973	940	-	-	-	-	-	-	-	-	Feb. 3, 1973	1610
Dec. 21, 1973	874	-	-	-	-	-	-	-	-	Dec. 21, 1973	1540
Sept. 27, 1975	796	-	-	-	-	-	-	-	-	Sept 27, 1975	1220
Jan. 27, 1976	1000	-	-	-	-	-	-	-	-	-	-
Jan. 28, 1976	1000	Jan. 1976	176	5.87	6.77	-	-	-	-	Jan. 28, 1976	1290
Mar. 23, 1977	856	-	-	-	-	-	-	-	-	Mar. 22, 1977	1440
Jan. 26, 1978	1050	-	-	-	-	-	-	-	-	Jan. 26, 1978	1720
Mar. 27, 1978	946	-	-	-	-	-	-	-	-	-	-
May 15, 1978	1010	-	-	-	-	-	-	-	-	-	-
Jan. 21, 1979	1250	-	-	-	-	-	-	-	-	Jan. 21, 1979	2420
Jan. 25, 1979	940	Jan. 1979	250	8.06	9.29	-	-	-	-	-	-
Mar. 6, 1979	1120	-	-	-	-	-	-	-	-	-	-
Mar. 7, 1979	808	Mar. 1979	192	6.19	7.14	1979	76.9	2.56	34.25	-	-

NORWALK RIVER BASIN

01209700 NORWALK RIVER AT SOUTH WILTON, CT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	30	64	49	20	14	216	108	17	19	9.6	2.1
2	67	78	54	45	17	13	178	89	20	14	11	2.3
3	62	69	47	44	17	12	161	74	30	20	23	2.3
4	56	52	44	44	17	12	212	68	33	17	12	2.2
5	52	45	41	34	16	14	199	58	22	15	10	2.2
6	46	38	43	34	15	16	151	54	19	22	9.2	2.6
7	38	35	86	33	14	16	132	51	27	15	8.8	2.3
8	43	33	60	33	14	20	120	110	28	13	8.1	2.2
9	43	31	49	31	14	29	400	87	27	12	6.0	2.2
10	45	40	44	29	14	29	1650	68	34	11	4.8	2.5
11	52	52	40	44	14	147	453	58	25	11	4.2	2.5
12	47	120	38	171	14	64	289	76	21	10	5.0	2.5
13	52	78	52	80	14	51	219	81	20	9.2	4.5	2.5
14	40	67	67	69	14	54	227	66	18	7.7	4.5	2.5
15	35	54	49	60	16	47	267	51	16	5.3	4.8	2.2
16	32	48	45	51	19	41	187	44	17	4.5	3.8	2.1
17	27	41	54	45	19	60	159	40	14	4.5	3.6	2.6
18	29	40	49	43	17	269	144	40	13	4.2	3.4	9.6
19	27	38	40	56	16	140	127	40	12	3.8	3.6	3.8
20	25	36	33	48	17	110	112	38	12	3.6	3.8	3.4
21	28	35	32	41	18	562	94	66	11	3.6	3.8	3.2
22	23	34	33	39	22	1610	81	63	11	3.6	3.6	2.8
23	20	33	36	41	26	594	78	46	11	5.6	3.2	2.5
24	20	32	43	36	28	372	66	38	21	4.5	2.8	2.8
25	20	31	217	31	28	351	56	34	10	3.8	3.4	2.6
26	29	117	153	30	26	259	58	32	7.7	3.6	2.5	2.8
27	30	213	107	28	22	205	58	26	7.7	3.2	2.6	2.6
28	35	127	88	28	20	181	156	20	8.1	3.8	2.5	2.5
29	35	102	73	26	17	175	190	19	9.6	21	2.5	2.2
30	32	80	64	24	---	219	134	18	28	13	2.6	2.1
31	31	---	56	21	---	216	---	17	---	9.6	2.3	---
TOTAL	1162	1829	1901	1388	525	5902	6574	1680	950.1	301.1	175.5	82.7
MEAN	37.5	61.0	61.3	44.8	18.1	190	219	54.2	18.3	9.71	5.66	2.76
MAX	67	213	217	171	28	1610	1650	110	34	22	23	9.6
MIN	20	30	32	21	14	12	56	17	7.7	3.2	2.3	2.1
CFSM	1.25	2.03	2.04	1.49	.60	6.33	7.30	1.81	.61	.32	.19	.09
IN.	1.44	2.27	2.36	1.72	.65	7.32	8.15	2.08	.68	.37	.22	.10
CAL YR 1979	TOTAL	30568.2	MEAN 83.7	MAX 1250	MIN 3.6	CFSM 2.79	IN 37.90					
WTR YR 1980	TOTAL	22070.4	MEAN 60.3	MAX 1650	MIN 2.1	CFSM 2.01	IN 27.37					

NORWALK RIVER BASIN

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01209753 BETTS POND BROOK AT NORWALK, CT

LOCATION.--Lat 41°07'34", long 73°24'17", Fairfield County, Hydrologic Unit 01100006, at Merrill Road on right downstream wingwall, 0.5 mi (0.8 km) upstream from confluence of Norwalk River.

DRAINAGE AREA.--2.22 mi² (5.75 km²).

PERIOD OF RECORD.--April 17, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 33.88 ft (10.327 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 228 ft³/s (6.46 m³/s) Apr. 17, gage height, 2.96 ft (0.902 m), by contracted-opening measurement.

DATE: JULY 29, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.5	043000	2.4	084500	3.5	130000	10.0	171500	6.2	213000	5.1
003000	2.5	044500	2.4	090000	4.3	131500	8.7	173000	6.0	214500	5.1
004500	2.5	050000	2.4	091500	8.9	133000	7.6	174500	5.8	220000	4.9
010000	2.5	051500	2.4	093000	17	134500	6.9	180000	5.7	221500	4.9
011500	2.5	053000	2.4	094500	21	140000	6.6	181500	5.5	223000	4.9
013000	2.5	054500	2.4	100000	25	141500	6.6	183000	5.5	224500	4.9
014500	2.5	060000	2.5	101500	26	143000	6.9	184500	5.5	230000	4.8
020000	2.5	061500	2.4	103000	26	144500	8.0	190000	5.4	231500	4.8
021500	2.5	063000	2.5	104500	26	150000	9.2	191500	5.4	233000	4.8
023000	2.4	064500	2.4	110000	24	151500	11	193000	5.4	234500	4.8
024500	2.5	070000	2.5	111500	23	153000	11	194500	5.2	240000	4.6
030000	2.4	071500	2.4	113000	25	154500	11	200000	5.2		
031500	2.4	073000	2.4	114500	27	160000	10.0	201500	5.2		
033000	2.4	074500	2.5	120000	26	161500	8.9	203000	5.2		
034500	2.4	080000	2.5	121500	21	163000	8.0	204500	5.2		
040000	2.4	081500	2.5	123000	17	164500	7.4	210000	5.2		
041500	2.4	083000	3.1	124500	13	170000	6.7	211500	5.1		

DATE: SEP. 17, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.1	043000	2.1	084500	2.1	130000	2.1	171500	2.1	213000	2.1
003000	2.1	044500	2.1	090000	2.1	131500	2.1	173000	2.1	214500	2.1
004500	2.1	050000	2.1	091500	2.1	133000	2.1	174500	2.1	220000	2.1
010000	2.1	051500	2.1	093000	2.1	134500	2.1	180000	2.1	221500	2.1
011500	2.1	053000	2.1	094500	2.1	140000	2.1	181500	2.1	223000	2.2
013000	2.1	054500	2.1	100000	2.1	141500	2.1	183000	2.1	224500	3.5
014500	2.1	060000	2.1	101500	2.1	143000	2.1	184500	2.1	230000	9.2
020000	2.1	061500	2.1	103000	2.1	144500	2.1	190000	2.1	231500	9.2
021500	2.1	063000	2.1	104500	2.1	150000	2.1	191500	2.1	233000	18
023000	2.1	064500	2.1	110000	2.1	151500	2.1	193000	2.1	234500	20
024500	2.1	070000	2.1	111500	2.1	153000	2.1	194500	2.1	240000	15
030000	2.1	071500	2.1	113000	2.1	154500	2.1	200000	2.1		
031500	2.1	073000	2.1	114500	2.1	160000	2.1	201500	2.1		
033000	2.1	074500	2.1	120000	2.1	161500	2.1	203000	2.1		
034500	2.1	080000	2.1	121500	2.1	163000	2.1	204500	2.1		
040000	2.1	081500	2.1	123000	2.1	164500	2.1	210000	2.1		
041500	2.1	083000	2.1	124500	2.1	170000	2.1	211500	2.1		

NORWALK RIVER BASIN

01209753 BETTS POND BROOK AT NORWALK, CT--Continued

DATE: SEP. 18, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	11	043000	3.4	084500	2.7	130000	2.5	171500	2.5	213000	2.4
003000	8.7	044500	3.4	090000	2.7	131500	2.5	173000	2.5	214500	2.4
004500	7.6	050000	3.3	091500	2.7	133000	2.5	174500	2.4	220000	2.4
010000	6.6	051500	3.1	093000	2.7	134500	2.5	180000	2.4	221500	2.4
011500	5.8	053000	3.1	094500	2.7	140000	2.5	181500	2.4	223000	2.4
013000	6.0	054500	3.1	100000	2.6	141500	2.5	183000	2.4	224500	2.4
014500	6.2	060000	3.2	101500	2.6	143000	2.5	184500	2.4	230000	2.4
020000	6.0	061500	3.3	103000	2.6	144500	2.5	190000	2.4	231500	2.4
021500	6.2	063000	3.3	104500	2.6	150000	2.5	191500	2.4	233000	2.3
023000	6.4	064500	3.3	110000	2.6	151500	2.5	193000	2.4	234500	2.3
024500	6.0	070000	3.2	111500	2.6	153000	2.5	194500	2.4	240000	2.3
030000	5.5	071500	3.1	113000	2.6	154500	2.5	200000	2.4		
031500	5.1	073000	3.0	114500	2.5	160000	2.5	201500	2.4		
033000	4.5	074500	3.0	120000	2.5	161500	2.5	203000	2.4		
034500	4.0	080000	2.9	121500	2.5	163000	2.5	204500	2.4		
040000	3.8	081500	2.8	123000	2.5	164500	2.5	210000	2.4		
041500	3.5	083000	2.7	124500	2.5	170000	2.5	211500	2.4		

NORWALK RIVER BASIN

315

410659073252001 RAIN GAGE AT JEFFERSON SCHOOL AT NORWALK CT

LOCATION.--Lat 41°06'59", long 73°25'20", Fairfield County, Hydrologic Unit 01100006, on southwest end of roof of Jefferson Elementary School, on Grandview Avenue in Norwalk River drainage basin, 1.1 mi (1.8 km) southwest of gage on Betts Pond Brook at Norwalk.

PERIOD OF RECORD.--July 18, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 8.20 in (208 mm) Oct. 16, 1955, at Norwalk Gas Plant, 0.6 mi (1.0 km) northeast, at mouth of Betts Pond Brook.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall recorded for 5 minutes, 0.08 in (2.03 mm) July 29; maximum recorded for 15 minutes, 0.17 in (4.32 mm) July 29; maximum recorded for 30 minutes, 0.28 in (7.11 mm) July 29; maximum hourly recorded, 0.50 in (12.7 mm) July 29; maximum daily recorded, 1.73 in (43.9 mm) July 29.

DATE: JULY 29, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
041500	0.02	093000	0.11	104500	0.14	120000	0.01	131500	0.000	143000	0.04
083000	0.04	094500	0.05	110000	0.12	121500	0.02	133000	0.01	144500	0.04
094500	0.13	100000	0.13	111500	0.06	123000	0.02	134500	0.03	150000	0.04
090000	0.06	101500	0.15	113000	0.04	124500	0.01	140000	0.03	151500	0.03
091500	0.17	103000	0.08	114500	0.08	130000	0.03	141500	0.04		

FIVEMILE RIVER BASIN

01209775 KEELERS BROOK AT NORWALK, CT

LOCATION.--Lat 41°05'08", long 73°26'36", Fairfield County, Hydrologic Unit 01100006, at Rowayton Avenue on right downstream wingwall, 0.3 mi (0.5 km) upstream from confluence of Fivemile River.

DRAINAGE AREA.--2.33 mi² (6.03 km²).

PERIOD OF RECORD.--April 17, 1980, to September 30, 1980.

GAGE.--Water-stage recorder. Datum of gage is 26.73 ft (8.157 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 265 ft³/s (7.50 m³/s) Apr. 17, gage height, 4.00 ft (1.219 m), by contracted-opening measurement.

DATE: JULY 29, 1980

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	1.0	043000	1.0	084500	1.1	130000	14	171500	10.0	213000	5.5
003000	1.0	044500	1.0	090000	1.6	131500	14	173000	9.7	214500	5.4
004500	1.0	050000	1.0	091500	2.6	133000	14	174500	9.4	220000	5.2
010000	1.0	051500	1.0	093000	3.6	134500	14	180000	9.0	221500	5.0
011500	1.0	053000	1.0	094500	4.7	140000	14	181500	8.6	223000	4.8
013000	1.0	054500	1.0	100000	5.2	141500	14	183000	8.5	224500	4.7
014500	1.0	060000	1.0	101500	6.0	143000	14	184500	8.2	230000	4.6
020000	1.0	061500	1.0	103000	6.7	144500	14	190000	7.8	231500	4.4
021500	1.0	063000	1.0	104500	7.8	150000	14	191500	7.5	233000	4.3
023000	1.0	064500	1.0	110000	8.6	151500	13	193000	7.3	234500	4.2
024500	1.0	070000	1.0	111500	9.7	153000	12	194500	7.1	240000	4.1
030000	1.0	071500	1.0	113000	11	154500	12	200000	6.9		
031500	1.0	073000	1.0	114500	12	160000	12	201500	6.7		
033000	1.0	074500	1.0	120000	14	161500	12	203000	6.4		
034500	1.0	080000	1.0	121500	14	163000	11	204500	6.1		
040000	1.0	081500	1.0	123000	14	164500	11	210000	6.0		
041500	1.0	083000	1.0	124500	14	170000	10.0	211500	5.7		

FIVEMILE RIVER BASIN

317

410526073261101 RAIN GAGE AT BROOKSIDE SCHOOL AT NORWALK, CT

LOCATION.--Lat 41°05'26", long 73°26'11", Fairfield County, Hydrologic Unit 01100006, on northwest end of roof of Brookside Elementary School, on Flax Hill Road in Keelers Brook drainage basin, 0.5 mi (0.8 km) northeast of gage on Keelers Brook, at Norwalk.

PERIOD OF RECORD.--July 17, 1980, to September 30, 1980.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall recorded for 5 minutes, 0.21 in (5.33 mm) Sept. 2; maximum recorded for 15 minutes, 0.51 in (13.0 mm) Sept. 2; maximum recorded for 30 minutes, 0.59 in (15.0 mm) Sept. 2; maximum hourly recorded, 0.86 in (21.8 mm) Sept. 2; maximum daily recorded, 0.99 in (25.1 mm) Sept. 17-18.

DATE: SEP. 17, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
221500	0.01	224500	0.08	231500	0.02	234500	0.07				
223000	0.01	230000	0.32	233000	0.02	240000	0.02				

DATE: SEP. 18, 1980

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.03	023000	0.01	044500	0.02	070000	0.000	091500	0.000	113000	0.000
003000	0.04	024500	0.000	050000	0.01	071500	0.000	093000	0.000	114500	0.000
004500	0.04	030000	0.000	051500	0.01	073000	0.000	094500	0.000	120000	0.000
010000	0.03	031500	0.01	053000	0.01	074500	0.000	100000	0.000	121500	0.000
011500	0.04	033000	0.000	054500	0.000	080000	0.000	101500	0.000	123000	0.01
013000	0.07	034500	0.000	060000	0.000	081500	0.000	103000	0.000		
014500	0.05	040000	0.000	061500	0.000	083000	0.000	104500	0.000		
020000	0.02	041500	0.02	063000	0.000	084500	0.000	110000	0.000		
021500	0.01	043000	0.01	064500	0.000	090000	0.000	111500	0.000		

LONG ISLAND SOUND

01209788 STAMFORD HURRICANE BARRIER AT STAMFORD, CT

LOCATION.--Lat 41°02'13", long 73°32'06", Fairfield County, Hydrologic Unit 01100006, at control tower of U.S. Army Corps of Engineers hurricane barrier, near Woodland Cemetery, at South end of Stamford, in Long Island Sound.

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

GAGE.--Water-stage recorder. Datum of staff gage is set at National Geodetic Vertical Datum of 1929. Datum of gage-height record is 10.00 ft (3.048 m) below National Geodetic Vertical Datum, in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 9.70 ft (2.957 m) Feb. 6, 1978; minimum, -7.94 ft (-2.420 m) Feb. 2, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum tidal elevation, 11.0 ft (3.35 m) Sept. 21, 1938, at site 0.3 mi (0.5 km) west in Stamford Harbor and at same datum, gage operated by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation, 7.31 ft (2.228 m) Mar. 22; minimum, -6.47 ft (-1.972 m) Mar. 15.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	5.18	5.96	5.69	6.74	6.27	7.31	6.49	5.80	6.07	5.75	5.53	6.19
	Date	23	3	20	17	16	22	14	13	29	30	26,29	25
	Time	1230	0945	1130	1015	1115	0315	2230	2145	2400	0045	2315, 1330	1045
Minimum low tide	Elevation	-5.32	-4.83	-5.02	-5.41	-5.34	-6.47	-5.09	-4.65	-4.81	-4.03	-4.25	-4.87
	Date	1	17	4	12	18	15	17	16	9	28	28	27
	Time	0700	1545	1330	1345	1915	1630	0700	0630	0215	0545	0700	0645

NOTE.--Time shown is eastern standard.

RIPPOWAM RIVER BASIN

319

01209901 RIPPOWAM RIVER NEAR STAMFORD, CT

LOCATION.--Lat 41°03'56", long 73°32'59", Fairfield County, Hydrologic Unit 01100006, on left bank 100 ft (30.5 m) upstream from bridge on Bridge Street, 2.7 mi (4.3 km) downstream from Holts Ice Pond Brook and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--34.0 mi² (88.1 km²).

PERIOD OF RECORD.--June 26, 1964 to March 24, 1966, low-flow partial-record station; November 1975 to September 1976, at site 0.6 mi (1.0 km) upstream. September 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 17.73 ft (5.404 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record Feb. 11 to Mar. 30, which are fair. Flow is continuous, but is completely controlled by storage in Mallard Lake, Trinity Lake Reservoir, Laurel Reservoir, Suscowit Reservoir, and by storage and diversion at North Stamford Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) Apr. 10, 1980; gage height, 6.56 ft (1.999 m); minimum, 2.1 ft³/s (0.059 m³/s) Sept. 29, 1980, gage height, 1.88 ft (0.573 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

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. 22	Unknown	about 1700 about 48.1	Unknown Unknown	July 29	1100	524 14.8	4.16 1.268
Apr. 10	1100	*1890 53.5	*6.56 1.999				

Minimum discharge, 2.1 ft³/s (0.059 m³/s) Sept. 29, gage height, 1.88 ft (0.573 m).

REVISIONS.--Revised maximum discharges and peak discharges above the given base, in cubic feet per second for 1978 and 79 are given below. These figures supersede those published in WDR CT-78-1 and 79-1. (*)Maximum for water year.

Date	Discharge (ft ³ /s) (m ³ /s)	Date	Discharge (ft ³ /s) (m ³ /s)
Jan. 26, 1978	*1050 *29.7	Jan. 25, 1979	890 25.2
May 15, 1978	885 25.1	Mar. 6, 1979	1180 33.4
Jan. 21, 1979	*1340 *37.9		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	16	19	31	18	15	221	123	11	13	9.4	3.0
2	59	15	18	32	18	12	179	95	40	13	8.5	4.5
3	56	59	20	31	18	12	150	81	49	13	19	5.1
4	40	41	19	29	18	12	193	70	33	11	14	3.5
5	30	31	19	25	18	13	207	60	19	15	9.4	3.2
6	26	21	24	23	17	15	162	52	13	21	8.0	3.0
7	21	21	53	22	13	17	128	48	19	11	6.6	3.2
8	20	18	32	21	13	20	106	79	21	8.9	5.8	3.2
9	20	16	22	20	13	30	287	83	23	8.0	5.1	3.2
10	33	21	18	19	13	30	1590	63	26	7.0	4.8	3.2
11	36	33	18	37	13	180	649	51	17	6.2	4.5	3.2
12	33	70	18	89	13	80	342	52	14	6.6	4.5	3.2
13	31	38	30	46	13	50	255	73	12	5.8	4.2	3.0
14	27	30	30	36	14	50	237	66	11	5.5	3.9	2.6
15	21	27	26	33	14	45	300	48	10	5.5	4.5	2.2
16	15	23	19	29	18	40	229	39	9.9	5.5	4.2	2.2
17	15	21	21	27	20	80	169	34	9.4	4.8	3.9	2.6
18	15	20	18	28	16	300	141	32	8.9	4.5	3.9	18
19	15	22	19	42	15	150	119	54	8.5	4.2	3.9	3.9
20	13	24	14	35	15	130	110	41	7.5	3.9	5.1	3.5
21	14	21	15	29	16	250	100	48	6.2	3.9	4.2	2.8
22	13	21	17	30	20	1500	85	42	5.8	3.9	4.2	2.6
23	13	21	15	30	30	450	73	31	5.8	6.6	3.9	2.5
24	17	18	19	26	33	350	66	26	5.5	5.1	3.9	2.3
25	15	18	128	26	27	250	61	22	4.5	4.5	3.9	2.3
26	12	72	81	24	25	220	54	18	4.5	4.2	3.7	2.8
27	14	73	48	24	22	190	52	17	5.1	4.2	3.7	2.2
28	18	37	39	22	20	170	126	14	5.1	3.9	3.2	2.2
29	19	28	35	21	18	150	207	13	10	110	3.0	2.2
30	16	23	37	20	---	200	164	11	42	30	3.0	2.2
31	16	---	33	19	---	232	---	9.9	---	13	3.0	---
TOTAL	759	899	924	926	521	5243	6762	1495.9	456.7	362.7	172.9	103.6
MEAN	24.5	30.0	29.8	29.9	18.0	169	225	48.3	15.2	11.7	5.58	3.45
MAX	66	73	128	89	33	1500	1590	123	49	110	19	18
MIN	12	15	14	19	13	12	52	9.9	4.5	3.9	3.0	2.2
CAL YR 1979	TOTAL	21320.4	MEAN	58.4	MAX	950	MIN	3.6				
WTR YR 1980	TOTAL	18625.8	MEAN	50.9	MAX	1590	MIN	2.2				

LONG ISLAND SOUND

01209910 STAMFORD HARBOR AT STAMFORD, CT

LOCATION.--Lat 41°01'47", long 73°32'17", Fairfield County, Hydrologic Unit 01100007, off Cemetery Point, at Stamford, and at the confluence of East Branch and West Branch Rippowam River.

DRAINAGE AREA.--40.3 mi² (104.4 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	SALIN- ITY (PPT)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 15...	1205	5.0	29400	7.5	19.0	11.0	14.0	20	5.0	6.0	58	40
JAN 18...	1230	5.0	21000	7.8	17.0	3.5	5.0	5	4.0	12.7	99	190
APR 18...	1115	5.0	25500	7.9	24.0	12.0	8.0	5	2.0	12.8	108	K2
JUL 14...	1100	5.0	39000	7.8	25.0	26.0	21.0	3	2.0	9.9	110	1300

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINEITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 15...	--	31	K5	5000	4900	170	1100	90	1800	6500	2.1
JAN 18...	96	--	41	3300	--	200	670	71	1300	9800	3.7
APR 18...	K1	--	<1	1800	1700	260	280	87	1700	13000	.6
JUL 14...	K7	--	22	4500	4400	180	980	94	1900	13000	1.2

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT 15...	24700	33.6	26500	--	--	1.6	.35	.42	1.1	1.4	3.0
JAN 18...	18300	24.9	16900	.77	.06	.83	.25	.30	.36	.61	1.4
APR 18...	26800	36.4	28500	--	--	.11	.16	.19	.32	.48	.59
JUL 14...	29100	39.6	31900	--	--	.24	.29	.35	.06	.35	.59

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 15...	13	.370	1.1	5	320	90	40	4.7	.90	.000	.000
JAN 18...	6.4	.070	.21	6	100	90	30	6.3	.60	.000	.000
APR 18...	2.6	.070	.21	5	140	50	20	3.2	1.2	3.61	.000
JUL 14...	2.6	.170	.52	6	170	80	30	2.6	.90	7.48	.000

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

As the number of streams on which streamflow 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 flood-flow 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 and miscellaneous sites are presented in two tables. The first is 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 the second table.

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 of record and for the present year is given. Information on some lower floods may have been obtained but is 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 1980

Annual maximum discharge at crest-stage partial-record stations during water year 1980					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height	Dis-charge
						(feet)	(ft ³ /s)
Mystic River basin							
01118750	Haleys Brook near Old Mystic	Lat 41°23'20", long 71°59'11", New London County, at bridge on Packer Road, 1.2 miles west of Old Mystic.	4.37	1962-80	1-25-79	4.23	300
					3-22-80	3.40	105
Thames River basin							
01119300	Roaring Brook near Staffordville	Lat 41°59'05", long 72°13'48", Tolland County, at abandoned bridge beside Bradway Road, 1.7 miles east of Staffordville.	5.61	1960-80	1-25-79	4.23	680 (rev)
					3-22-80	3.86	470
01119360	Conat Brook at West Willington	Lat 41°52'17", long 72°17'31", Tolland County, at culvert on Kola Road, 0.5 mile southeast of West Willington.	2.40	1964-80	1-25-79	4.92	150
					3-22-80	3.75	85
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", Tolland County, 1,500 feet downstream from Hop River village near Columbia.	74.8	1933-71†, 1972-80	9-21-38	16.25	6450
					1-25-79	15.14	5450
					3-22-80	15.04	5360
01122680	Merrick Brook near Scotland	Lat 41°43'44", long 72°05'08", Windham County, by Brook Street, 2.1 miles north of Scotland.	5.21	1964-80	4-02-70	4.60	850
					3-22-80	3.60	350
01125300	English Neighborhood Brook at North Woodstock	Lat 41°59'27", long 72°59'51", Windham County, at bridge on State Highway 169, at North Woodstock.	4.66	1962-80	1-26-78	5.54	580
					3-22-80	3.74	230
01125650	Wappoquia Brook near Pomfret	Lat 41°51'57", long 71°57'30", Windham County, at bridge on Day Road, 2 miles south of Pomfret.	4.21	1964-80	4-02-70	5.16	850
					4-10-80	3.72	315
01125900	Cady Brook at East Putnam	Lat 41°54'32", long 71°49'11", Windham County, at bridge on East Putnam Road, 0.3 mile south of East Putnam.	8.29	1964-80	1-26-78	4.51	950
					3-22-80	4.00	610
01126000	Fivemile River at Killingly	Lat 41°50'14", long 71°53'09", Windham County, at Penn Central Railroad Co. bridge 0.6 mile south of Killingly.	57.8	1936†, 1938-71†, 1972-80	7-24-38	8.52	2480
					3-23-80	5.68	1160

† Operated as a continuous-record gaging station.

† Peak-flow determination.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1980--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--Continued							
01126500	Moosup River at Moosup	Lat 41°42'37", long 71°53'11", Windham County, at Kaman Aircraft Corp. at Moosup.	83.6	1933-71†, 1972-80	3-12-36 3-22-80	8.35 6.35	4260 2400
Fourmile River basin							
01127800	Fourmile River near East Lyme	Lat 41°21'25", long 72°15'40", New London County, at twin culverts on Stones Ranch Road, 2.5 miles west of East Lyme.	4.30	1961-80	1-21-79 3-22-80	4.28 3.04	186 105
Connecticut River basin							
01183993	Freshwater Brook near Enfield	Lat 41°59'57", long 72°33'25", Hartford County, at bridge on Elm Street, 2.3 miles northeast of Enfield.	7.49	Apr. 30, 1980 to Sept. 30, 1980	7-29-80	<4.31	<255
01184100	Stony Brook near West Suffield	Lat 41°57'38", long 72°42'39", Hartford County, at bridge on South Grand Street, 2.1 miles south of West Suffield	10.2	1960-80	9-27-75 12-25-79	4.82 4.00	830 510
01184260	Namerick Brook near Warehouse Point	Lat 41°54'13", long 72°36'47", Hartford County, at bridge on U.S. Highway 5, 1.7 miles south of Warehouse Point.	2.60	1964-80	12-21-73 4-10-80	5.92 4.22	620 260
01184300	Gillette Brook at Somers	Lat 41°59'30", long 72°26'05", Tolland County, at twin culverts on Battle Street, 0.7 mile northeast of Somers.	3.64	1960-67, 1968-69†, 1970-80	9-27-75 3-12-62 3-26-63 1-25-64 2-13-66 5-26-67 4-10-80	6.38 3.01 3.38 2.92 2.72 3.32 5.29	375 59 (rev) 84 (rev) 55 (rev) 45 (rev) 80 (rev) 255
01184500	Scantic River at Broad Brook	Lat 41°54'42", long 71°33'48", Hartford County, upstream from bridge on State Highway 191, at Broad Brook.	98.2	1929-71†, 1972-80	8-19-55 4-11-80	19.9 9.48	13,300 1540
01187800	Nepaug River near Nepaug	Lat 41°49'14", long 72°58'14", Litchfield County, beside U.S. Highway 202, 0.2 mile upstream from Nepaug Reservoir.	23.5	a1922-55, 1958-72†, 1973-80	8-19-55 3-22-80	- 6.94	c10,000 2120
01188100	Roaring Brook at Unionville	Lat 41°45'24", long 72°52'59", Hartford County, at bridge on State Highway 4, at Unionville.	7.60	1962-75, 1977-79, 1980	2-02-73 3-06-79 4-10-80	2.66 2.49 2.28	570 500 (rev) 390
01189200	Stratton Brook near Simsbury	Lat 41°52'12", long 72°49'29", Hartford County, at bridge on Farms Village Road, 400 feet upstream from mouth, and 1 mile west of Simsbury.	5.19	1964-66, 1967-71†, 1972-80	1-25-79 4-10-80	3.30 3.15	290 270
01190100	Piper Brook at Newington Junction	Lat 41°42'43", long 72°44'15", Hartford County, at bridge on Willard Avenue at Newington Junction.	14.6	1955†, 1959-71†, 1972-80	10-3-79	11.62	2400
01190200	Mill Brook at Newington	Lat 41°42'16", long 72°43'34", Hartford County, at bridge on Dowd Street, 0.5 mile north of Newington.	2.65	1955†, 1959-71†, 1972-80	9-12-60 10-3-79	6.70 7.23	460 435
01191900	Charter Brook near Crystal Lake	Lat 41°54'22", long 72°24'15", Tolland County, at twin culverts on Browns Bridge Road, 2 miles southwest of Crystal Lake.	8.51	1965-80	12-21-73 3-22-80	4.52 3.80	600 400

† Operated as a continuous-record gaging station.

† Peak-flow determination.

a Maximum dailies.

c Estimate.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1980--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Connecticut River basin--Continued							
01192690	Schultz Pond Brook at New Britain	Lat 41°39'25", long 72°48'27", Hartford County, at bridge on Oakwood Street, on south edge of New Britain.	3.39	May 2, 1980 to Sept. 30, 1980	+8-19-55 +7-29-80	- <2.04	250 < 0.2
01192691	Mason Pond Brook at New Britain	Lat 41°39'11", long 72°47'56", Hartford County, at Shuttle Meadow Avenue, on south edge of New Britain.	1.33	Sept. 1971 to July 1972; May 2, 1980 to Sept. 30, 1980	+8-19-55 3-3-72 7-29-80	- 2.63 2.31	600 112 41
01192800	Parmalee Brook near Durham	Lat 41°27'08", long 72°42'08", Middlesex County, at bridge on Sawmill Road, 2 miles southwest of Durham.	2.79	1960-80	1-21-79 3-25-80	5.76 4.00	517 248
01193300	Blackledge River near Gilead	Lat 41°41'46", long 72°27'22", Tolland County, at twin box culverts on State Highway 94, 3 miles west of Gilead, and 4 miles east of Buckingham.	6.75	1960-80	1-25-79 3-22-80	5.29 3.84	410 210
01194000	Eightmile River at North Plain	Lat 41°26'30", long 72°20'00", Middlesex County, at bridge on State Highway 82, at North Plain.	20.1	1938-66† 1967-80	1-21-79 3-22-80	8.24 7.31	2730 1800
Wepawaug River basin							
01196700	Wepawaug River at Milford	Lat 41°14'10", long 73°03'32", New Haven County, by bridge on Walnut Street, at Milford.	18.4	1962-80	1-21-79 4-10-80	7.24 7.00	1600 1500
Housatonic River basin							
01198500	Blackberry River at Canaan	Lat 42°01'26", long 73°20'32", Litchfield County, at bridge on U.S. Highway 44, at Canaan.	45.9	1949-71† 1972-80	8-19-55 3-21-80	13.01 8.44	14,200 1920
01198860	Deming Brook near Huntsville	Lat 41°57'52", long 73°18'07", Litchfield County, 20 feet downstream from Under Mountain Road, 1.5 miles northeast of Huntsville.	1.08	1971-74† 1975-76, 1979-80	- 8-10-76 3-21-80	- 2.11 2.50	- 164 520
01201510	Still River at Lanesville	Lat 41°32'12", long 73°25'04", Litchfield County, 0.9 mile upstream from mouth, at Lanesville.	69.6	d1932-66†, d1967-71†, 1972-80	d10-16-55 3-22-80	14.11 8.23	7890 3700
01202700	Butternut Brook near Litchfield	Lat 41°44'35", long 73°13'14", Litchfield County, at bridge on Ripley Road, 1.5 miles west of Litchfield.	2.42	1960-75, 1977-80	2-02-73 3-21-80 4-10-80	7.91 5.82 5.82	630 405 405
01203000	Shepaug River near Roxbury	Lat 41°32'59", long 73°19'49", Litchfield County, at Wellers Bridge, 1.2 miles southwest of Roxbury.	132	1931-71 1972-80	8-19-55 3-22-80	17.2 9.53	50,300 6120
01203100	Jacks Brook near Roxbury Falls	Lat 41°31'39", long 73°18'32", Litchfield County, at bridge on River Road, 1.2 miles north of Roxbury Falls.	7.90	1961-80	9-26-75 3-22-80	7.82 5.49	c1600 880
01203510	Pootatuck River at Sandy Hook	Lat 41°25'13", long 73°16'58", Fairfield County, at bridge on Church Hill Road, at Sandy Hook.	24.8	1966-73† 1974-80	1-25-79 3-22-80	8.47 7.54	2720 1840

† Operated as a continuous-record gaging station.

‡ Peak-flow determination.

c Estimate.

d Formerly station no. 01201500, 2 miles upstream; drainage area 67.5 mi².

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1980--Continued								
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum			
					Date	Gage height (feet)	Dis-charge (ft ³ /s)	
Housatonic River basin--Continued								
01203700	Wood Creek near Bethlehem	Lat 41°37'38", long 73°13'34", Litchfield County, at bridge on State Highway 132, 1.2 miles southwest of Bethlehem.	3.39	1962-80	9-26-75 3-22-80	4.61 3.03	c 600 165	
01206400	Leadmine Brook near Harwinton	Lat 41°43'46", long 73°03'13", Litchfield County, at bridge on South Road, 3.0 miles south of Harwinton.	19.6	1959-73† 1974-80	3-21-80	9.63	2130	
01208100	Hancock Brook near Terryville	Lat 41°39'40", long 73°00'12", Litchfield County, at culvert on Waterbury Road, at corner of South Main Street, 1.1 miles south of Terryville.	1.18	1960-80	9-26-75 3-22-80	5.19 3.93	300 160	
01208700	Little River at Oxford	Lat 41°26'03", long 73°07'03", New Haven County, at bridge on Governor Hill Road, at Oxford.	4.54	1960-80	1-25-79 4-10-80	6.82 5.15	1000 410	
Pequonnock River basin								
01208850	Pequonnock River at Trumbull	Lat 41°14'49", long 73°11'52", Fairfield County, at bridge on Daniels Farm Road at Trumbull, 4.6 miles north of Bridgeport.	e15.6	1956†, 1962-64, 1965-66†, 1967-80	10-16-55 4-10-80	- 8.29	4500 2100	
Mill River basin								
01208900	Patterson Brook near Easton	Lat 41°17'16", long 73°17'33", Fairfield County, at culvert on State Highway 59, 2.5 miles north of Easton.	1.21	1960-80	1-26-78 4-10-80	6.93 7.28	120 128	
Norwalk River basin								
01209670	Bryant Brook at Wilton	Lat 41°11'19", long 73°25'10", Fairfield County, at bridge on Sharp Hill Road, 0.95 mile southeast of Wilton.	0.96	May 6, 1980 to Sept. 30, 1980	+4-10-80	5.88	278	
Fivemile River basin								
01209770	Fivemile River near Norwalk	Lat 41°06'02", long 73°27'18", Fairfield County, at bridge on West Cedar Street, 1.8 miles west of Norwalk.	8.96	1956†, 1962-80	10-16-55 4-10-80	- 5.92	3250 1050	
Byram River basin								
01212100	East Branch Byram River at Riversville	Lat 41°03'39", long 73°40'31", Fairfield County, at bridge on Riversville Road just downstream from Merritt Parkway, 0.2 mile upstream from mouth.	f11.1	1963-69†, 1970-80	6-19-72 4-10-80	7.62 6.88	1700 1280	

† Operated as a continuous-record gaging station.

† Peak-flow determination.

c Estimate.

e Includes 3.8 mi² from which a portion of the flow is diverted into Easton Reservoir.f Includes 3.7 mi² from which a portion of the flow is diverted into Putnam Lake.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Quinebaug River basin						
01125260 Muddy Brook	Little River	Lat 41°59'44", long 71°59'28", Windham County, at State High- way 197, 0.5 mile northeast of North Woodstock.	7.43	1962 1979	10-23-79	4.56
					12-5-79	8.78
					1-22-80	6.95
					3-11-80	93.3
					4-22-80	15.5
					6-4-80	8.00
					7-31-80	9.68
01125400 Muddy Brook	Little River	Lat 41°59'03", long 71°58'52", Windham County, at bridge on Main St., at East Woodstock.	13.1	1961-2(a) 1963 1979	10-23-79	9.30
					12-5-79	16.9
					1-22-80	14.5
					4-22-80	24.9
					6-4-80	13.8
					7-31-80	17.2
01125404 Muddy Brook	Little River	Lat 41°58'35", long 71°58'10", Windham County, at wooden farm bridge, 0.4 mile upstream from Peckham Brook, near East Woodstock.	16.4	1979	10-23-79	10.9
					12-6-79	20.2
					1-22-80	17.0
					4-22-80	31.7
					6-4-80	18.1
					7-31-80	22.7
01125411 Muddy Brook	Little River	Lat 41°58'02", long 71°57'52", Windham County, at wooden farm bridge, 300 ft upstream from North Running Brook, near Woodstock.	18.3	1979	10-23-79	12.2
					12-6-79	23.3
					1-22-80	19.1
					4-22-80	35.0
					6-4-80	19.1
					7-31-80	24.4
01125500 Quinebaug River	Shetucket River	Lat 41°54'34", long 71°54'48", Windham County, on right bank at Putnam, 0.15 mile downstream from Little River.	328	1930-69† 1974-79	10-30-79	290
					12-12-79	479
					1-23-80	368
					3-10-80	429
					6-3-80	449
					7-24-80	218
					9-10-80	42.1
					Mill River basin	
01196590 Mill River	Long Island Sound	Lat 41°27'13", long 72°54'02", New Haven County, at culverts on Old Lane Road, 3.0 miles south of Cheshire	5.90	1978-79	10-22-79	3.02
					12-26-79	22.1
					2-7-80	2.61
					4-1-80	26.7
					5-1-80	15.8
					6-2-80	4.16
					7-29-80	.68
					9-11-80	.43
0119660 Willow Brook	Mill River	Lat 41°27'35", long 72°55'06", New Haven County, at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.5 miles south of Cheshire.	9.34	1960-76+ 1978-79	10-22-79	9.96
					10-22-79	8.51
					12-26-79	40.4
					2-7-80	11.8
					4-1-80	53.4
					5-1-80	35.1
					6-2-80	18.3
					7-27-80	7.32
					9-11-80	4.38

† Operated as a low-flow and crest-stage station

‡ Operated as a continuous-record gaging station

a Operated as a low-flow, partial-record station (QW samples)

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

THAMES RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAP (COLS. PER 100 ML)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
01125260 - MUDDY BROOK AT NORTH WOODSTOCK, CT. (LAT 41 59 44 LONG 071 59 28)												
JUN , 1980												
30...	1045	6.8	74	6.7	--	18.0	9.0	95	5800	7200	.34	.31
JUL												
18...	1000	.70	62	6.5	27.0	23.0	5.7	67	920	500	--	--
30...	0830	28	76	6.3	25.5	20.5	7.2	80	75000	75000	--	--
01125400 - MUDDY BROOK AT EAST WOODSTOCK, CT. (LAT 41 59 03 LONG 071 58 52)												
JUN , 1980												
30...	1115	16	73	6.7	--	20.0	8.4	91	4700	3500	.27	.25
JUL												
18...	1030	1.3	74	6.7	26.0	26.0	6.7	83	84	16000	--	--
30...	0843	43	70	6.4	25.5	20.3	7.8	87	140000	14000	--	--
01125404 - MUDDY BROOK NR EAST WOODSTOCK, CT. (LAT 41 58 35 LONG 071 58 10)												
JUN , 1980												
30...	1130	23	83	6.7	--	19.0	8.4	90	3200	3900	.47	.45
JUL												
18...	1050	2.5	104	6.3	27.0	22.5	6.1	71	260	230	--	--
30...	0852	60	67	6.4	25.5	20.0	7.4	81	12000	15000	--	--
01125411 - MUDDY BROOK NR WOODSTOCK, CT. (LAT 41 58 02 LONG 071 57 52)												
JUN , 1980												
30...	1145	26	88	6.8	--	18.0	7.9	83	10000	8700	.47	.45
JUL												
18...	1130	2.6	111	6.2	27.5	22.0	5.8	66	260	420	--	--
30...	0900	66	71	6.4	26.0	20.0	7.1	78	15000	10000	--	--

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THAMES RIVER BASIN--Continued

DATE	TIME	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
01125260 - MUDDY BROOK AT NORTH WOODSTOCK, CT. (LAT 41 59 44 LONG 071 59 28)												
JUN , 1980 30...	1045	E1.4	.02	.01	.03	.36	.32	.06	.03	.07	.04	.60
01125400 - MUDDY BROOK AT EAST WOODSTOCK, CT. (LAT 41 59 03 LONG 071 58 52)												
JUN , 1980 30...	1115	E1.1	.01	.00	.00	.28	.25	.13	.11	.16	.14	.76
01125404 - MUDDY BROOK NR EAST WOODSTOCK, CT. (LAT 41 58 35 LONG 071 58 10)												
JUN , 1980 30...	1130	E2.0	.02	.00	.00	.49	.45	.09	.06	.11	.08	.49
01125411 - MUDDY BROOK NR WOODSTOCK, CT. (LAT 41 58 02 LONG 071 57 52)												
JUN , 1980 30...	1145	E2.0	.02	.01	.03	.49	.46	.11	.05	.13	.06	.34

E ESTIMATED VALUE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

THAMES RIVER BASIN--Continued

DATE	TIME	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, ORTHOPH OSPATE TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
01125260 - MUDDY BROOK AT NORTH WOODSTOCK, CT. (LAT 41 59 44 LONG 071 59 28)											
JUN , 1980 30...	1045	.42	.66	.21	.45	1.0	.77	4.5	.090	.18	.28 .060
01125400 - MUDDY BROOK AT EAST WOODSTOCK, CT. (LAT 41 59 03 LONG 071 58 52)											
JUN , 1980 30...	1115	.27	.89	.51	.38	1.2	.63	5.2	.050	.12	.15 .040
01125404 - MUDDY BROOK NR EAST WOODSTOCK, CT. (LAT 41 58 35 LONG 071 58 10)											
JUN , 1980 30...	1130	.30	.58	.22	.36	1.1	.81	4.7	.100	.09	.31 .030
01125411 - MUDDY BROOK NR WOODSTOCK, CT. (LAT 41 58 02 LONG 071 57 52)											
JUN , 1980 30...	1145	.63	.45	.00	.68	.94	1.1	4.2	.050	.12	.15 .040

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

THAMES RIVER BASIN--Continued

DATE	TIME	PHOS- PHORUS, ORTHOPH OSPATE TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P04)	PHOS- PHORUS, HYDRO- LYZABLE DISSOL. (MG/L AS P)	PHOS- PHORUS, HYDRO- + ORTHO DISSOL. (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
01125260 - MUDDY BROOK AT NORTH WOODSTOCK, CT. (LAT 41 59 44 LONG 071 59 28)									
JUN , 1980									
30...	1045	.06	.05	.15	.12	.17	.00	7	.13
01125400 - MUDDY BROOK AT EAST WOODSTOCK, CT. (LAT 41 59 03 LONG 071 58 52)									
JUN , 1980									
30...	1115	.04	.02	.06	.07	.09	.00	9	.39
01125404 - MUDDY BROOK NR EAST WOODSTOCK, CT. (LAT 41 58 35 LONG 071 58 10)									
JUN , 1980									
30...	1130	.03	.02	.06	.07	.09	.00	10	.62
01125411 - MUDDY BROOK NR WOODSTOCK, CT. (LAT 41 58 02 LONG 071 57 52)									
JUN , 1980									
30...	1145	.04	.02	.06	.07	.09	.00	7	.49

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN-

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT. IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
422840073092400 - CENTER POND NR RIVERVIEW ST AT DALTON, MA (LAT 42 28 40 LONG 073 09 24)									
OCT , 1979									
05...	1300	0-6	30	2.5	32	44	6	35	100
422837073091400 - CENTER POND AT OTIS ST AT DALTON, MA (LAT 42 28 37 LONG 073 09 14)									
OCT , 1979									
05...	1230	0-6	37	7.7	45	47	5	44	100
422818073145500 - W BR HOUSATONIC R NR LENOX AVE AT PITTSFIELD, MA (LAT 42 28 18 LONG 073 14 55)									
OCT , 1979									
03...	1030	0-6	8.4	3.6	12	30	15	59	100
422704073143200 - SILVER LAKE NR LINCOLN ST AT PITTSFIELD, MA (LAT 42 27 04 LONG 073 14 32)									
OCT , 1979									
05...	1500	0-6	92	6.5	98	19000	30	71	100
422704073142000 - SILVER LAKE NR EAST ST AT PITTSFIELD, MA (LAT 42 27 04 LONG 073 14 20)									
OCT , 1979									
05...	1430	0-6	129	2.6	132	56000	31	79	100
422627073145600 - E BR HOUSATONIC R AT DAWES AVE AT PITTSFIELD, MA (LAT 42 26 27 LONG 073 14 56)									
MAY , 1980									
06...	1515	0-6	3.6	1.9	5.5	25000	3	4	100
422618073173100 - S W BR, HOUSATONIC R NR WEST PITTSFIELD, MA (LAT 42 26 18 LONG 073 17 31)									
OCT , 1979									
03...	1245	0-6	22	5.0	27	37	6	19	100
422611073145400 - E BR, HOUSATONIC R AT POMEROY A AT PITTSFIELD, MA (LAT 42 26 11 LONG 073 14 54)									
OCT , 1979									
03...	0915	0-6	11	2.5	13	21000	2	9	100
422548073142100 - HOUSATONIC R AT HOLMES RD NR PITTSFIELD, MA (LAT 42 25 48 LONG 073 14 21)									
OCT , 1979									
03...	0800	0-6	59	17	76	12000	2	9	100
422337073142700 - HOUSATONIC R AT NEW LENOX, MA (LAT 42 23 37 LONG 073 14 27)									
OCT , 1979									
02...	1500	0-6	25	3.1	28	76000	6	29	100
422313073144800 - HOUSATONIC R NR NEW LENOX, MA (LAT 42 23 13 LONG 073 14 48)									
OCT , 1979									
17...	1400	0-6	9.5	2.5	12	25000	23	76	100
17...	1405	6-12	78	2.7	81	4300	29	90	100
17...	1410	12-18	62	1.3	63	79	29	81	100
17...	1415	18-24	49	3.1	52	62	25	76	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCH, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
422310073144200 - HOUSATONIC R NR YOCUN BK NR NEW LENOX, MA (LAT 42 23 10 LONG 073 14 42)									
OCT , 1979									
17...	1515	0-6	118	2.4	120	58000	17	80	100
17...	1520	6-12	125	1.9	127	140000	29	78	100
17...	1525	12-18	87	.3	87	4800	33	85	100
17...	1530	18-24	59	.6	60	360	25	80	100
422140073143300 - UPPER WOODS POND NR LENOX, MA (LAT 42 21 40 LONG 073 14 33)									
OCT , 1979									
11...	1030	0-6	166	10	176	16000	24	73	100
11...	1035	6-12	151	26	177	4400	32	71	100
11...	1040	12-18	165	7.0	172	300	28	87	100
11...	1045	18-24	278	.4	278	60	30	73	100
422130073143000 - UPPER WOODS POND NR CHANNEL NR LENOX, MA (LAT 42 21 30 LONG 073 14 30)									
OCT , 1979									
11...	1145	0-6	100	1.2	101	59000	19	79	100
11...	1150	6-12	137	.9	138	76000	14	99	100
11...	1155	12-18	119	1.1	120	27000	32	83	100
11...	1200	18-24	96	.3	96	2500	9	28	100
422124073143200 - WOODS POND NR SUBSTATION AT LENOX,MA (LAT 42 21 24 LONG 073 14 32)									
OCT , 1979									
11...	0945	0-6	108	.3	108	1800	--	--	--
11...	0950	6-12	12	.1	12	58	--	--	--
11...	0955	12-18	84	6.3	90	28	16	80	100
422118073141800 - WOODS POND EAST SIDE AT LENOX,MA (LAT 42 21 18 LONG 073 14 18)									
OCT , 1979									
18...	1300	0-6	33	.4	33	10000	15	63	100
422102073143500 - LOWER WOODS POND AT LENOX STA, MA (LAT 42 21 02 LONG 073 14 35)									
OCT , 1979									
10...	1245	0-6	39	1.6	41	55000	19	99	100
10...	1250	6-12	76	1.5	77	110000	19	82	100
10...	1255	12-18	75	1.8	77	66000	21	78	100
10...	1300	18-24	119	1.8	121	97000	22	88	100
10...	1305	24-30	129	1.2	130	44000	17	63	100
422102073142500 - LOWER WOODS POND AT CENTER AT LENOX,MA (LAT 42 21 02 LONG 073 14 25)									
MAY , 1980									
06...	1415	0-6	66	3.1	69	30000	16	86	100
06...	1420	6-12	144	2.5	146	67000	20	78	100
06...	1425	12-18	104	1.1	105	2700	6	29	100
06...	1430	18-24	58	.3	58	140	13	82	100
422057073141900 - LOWER WOODS POND NR LENOX, MA (LAT 42 20 57 LONG 073 14 19)									
OCT , 1979									
10...	1330	0-6	201	.4	201	25000	34	94	100
10...	1335	6-12	239	.3	239	530	32	59	100
10...	1340	12-18	320	.4	320	310	43	80	100
10...	1345	18-24	265	.6	266	200	26	77	100
10...	1350	24-30	289	.4	289	930	37	75	100
18...	1130	30-36	203	.3	203	850	35	77	100
18...	1135	36-42	25	.0	25	170	31	77	100
18...	1140	42-48	172	.3	172	210	27	60	100
18...	1145	48-52	99	.8	100	140	36	54	100
18...	1150	52-60	37	5.5	42	0	14	84	100
18...	1155	60-66	29	6.5	35	0	17	78	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
422056073142000 - LOWER WOODS POND NR WOODLAND ST NR LENOX, MA (LAT 42 20 56 LONG 073 14 20)									
MAY , 1980									
06...	1230	0-6	126	2.1	128	19000	36	93	100
06...	1235	6-12	179	.5	179	4600	59	93	100
06...	1240	12-18	173	.5	173	840	53	92	100
06...	1245	18-24	144	2.6	147	100	20	86	100
06...	1250	24-30	30	6.5	36	34	11	82	100
422052073144300 - WOODS POND OUTFLOW AT LENOX STA, MA (LAT 42 20 52 LONG 073 14 43)									
OCT , 1979									
18...	1100	0-6	186	3.5	189	38000	11	57	100
422040073143800 - CANAL POND BLW WOODS POND AT LENOX DALE, MA (LAT 42 20 40 LONG 073 14 38)									
OCT , 1979									
23...	1300	0-6	97	2.9	100	13000	30	75	100
23...	1305	6-12	69	6.6	76	120	28	66	100
23...	1310	12-18	41	13	54	570	29	75	100
422026073144300 - HOUSATONIC R NR GRAVEL PIT AT LENOX DALE, MA (LAT 42 20 26 LONG 073 14 43)									
DEC , 1979									
06...	1445	0-6	8.0	19	27	140	2	4	100
421909073144000 - HOUSATONIC R AT GOLDEN HILL RD NR LEE, MA (LAT 42 19 09 LONG 073 14 40)									
MAY , 1980									
07...	0930	0-6	5.0	27	32	3100	3	5	100
421904073144600 - HOUSATONIC R NR COLUMBIA ST. AT LEE, MA (LAT 42 19 04 LONG 073 14 46)									
MAY , 1980									
07...	1030	0-6	3.0	20	23	620	1	5	100
07...	1035	6-12	9.0	11	20	570	2	3	100
07...	1040	12-18	8.0	19	27	760	2	2	100
421903073144500 - HOUSATONIC R NR GOLDEN HILL RD AT LEE, MA (LAT 42 19 03 LONG 073 14 45)									
OCT , 1979									
23...	1430	0-6	36	14	50	6600	4	37	100
421658073193400 - GOLF COURSE POND AT STOCKBRIDGE, MA (LAT 42 16 58 LONG 073 19 34)									
OCT , 1979									
05...	1000	0-6	--	--	--	8900	11	64	100
05...	1005	6-12	--	--	--	7200	10	56	100
421654073211200 - HOUSATONIC R NR GLENDALE, MA (LAT 42 16 54 LONG 073 21 12)									
MAY , 1980									
07...	1200	0-6	6.0	19	25	780	6	22	100
07...	1205	6-12	31	17	48	7800	9	56	100
421653073192300 - HOUSATONIC R AT STOCKBRIDGE, MA (LAT 42 16 53 LONG 073 19 23)									
OCT , 1979									
02...	1300	0-6	2.2	5.8	8.0	140	2	2	100
421632073170500 - HOUSATONIC R AT SOUTH LEE, MA (LAT 42 16 32 LONG 073 17 05)									
OCT , 1979									
02...	1100	0-6	44	10	54	9600	11	59	100
421632073161000 - HOUSATONIC R AT BEARTOWN BR NR S LEE, MA (LAT 42 16 32 LONG 073 16 10)									
DEC , 1979									
06...	1345	0-6	9.0	12	21	1000	4	33	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
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421508073215800 - UPPER RISINGDALE POND AT HOUSATONIC, MA (LAT 42 15 08 LONG 073 21 58)

OCT , 1979									
17...	1000	0-6	--	--	--	1700	6	28	100
17...	1005	6-12	--	--	--	1100	5	15	100
17...	1010	12-18	--	--	--	0	7	28	100

421453073213600 - MIDDLE RISINGDALE POND AT HOUSATONIC, MA (LAT 42 14 53 LONG 073 21 36)

OCT , 1979									
17...	1130	0-6	--	--	--	1300	4	21	100
17...	1135	6-12	--	--	--	1200	5	19	100
17...	1140	12-18	--	--	--	1400	6	15	100

421436073212900 - LOWER RISINGDALE POND AT RISINGDALE, MA (LAT 42 14 36 LONG 073 21 29)

OCT , 1979									
17...	1230	0-6	--	--	--	4800	12	53	100
17...	1235	6-12	--	--	--	3300	8	41	100
17...	1240	12-18	--	--	--	750	4	13	100
17...	1245	18-24	--	--	--	4300	13	62	100

421040073212600 - HOUSATONIC R AT GREAT BARRINGTON, MA (LAT 42 10 40 LONG 073 21 26)

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT								
24...	0900	0-6	37	13	50	3900	.0	.0

DATE	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT									
24...	0	.0	17	.0	.0	.0	.0	.0	.0

DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
OCT								
24...	.0	.0	.0	.00	0	10	68	100

420848073214100 - HOUSATONIC R MIDDLE OXBOW NEAR SHEFFIELD, MA (LAT 42 08 48 LONG 073 21 41)

OCT , 1979									
24...	1030	0-6	--	--	--	550	27	78	100
24...	1035	6-12	--	--	--	0	46	86	100

420637073204200 - HUBBARD BRK AT SHEFFIELD, MA (LAT 42 06 37 LONG 073 20 42)

DEC , 1979									
06...	1215	0-6	19	5.5	24	680	5	60	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT- MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	
420636073203600 - HUBBARD BRK OUTLET AT COUNTY RD AT SHEFFIELD, MA (LAT 42 06 36 LONG 073 20 36)										
DEC , 1979										
06...	0930	0-6	--	--	--	1200	7	56	100	
06...	0935	6-12	--	--	--	380	7	37	100	
06...	0940	12-18	--	--	--	17	3	6	100	
420633073202800 - HOUSATONIC R AT SHEFFIELD, MA (LAT 42 06 33 LONG 073 20 28)										
DEC , 1979										
06...	0900	0-6	23	3.8	27	830	9	69	100	
420419073200300 - HOUSATONIC R OXBOW TOP NR ASHLEY FALLS,MA (LAT 42 04 19 LONG 073 20 03)										
OCT , 1979										
31...	1520	0-6	16	3.6	20	510	8	60	100	
31...	1525	0-6	26	4.1	30	720	--	100	100	
31...	1530	0-6	11	4.2	15	480	--	0	100	
420417073195900 - HOUSATONIC R OXBOW CENTER NR ASHLEY FALLS,MA (LAT 42 04 17 LONG 073 19 59)										
OCT , 1979										
31...	1430	0-6	74	1.4	75	770	17	80	100	
31...	1435	6-12	63	2.1	65	790	12	78	100	
31...	1440	12-18	70	1.6	72	530	10	86	100	
31...	1445	18-24	34	.4	34	220	20	91	100	
420415073200500 - HOUSATONIC R OXBOW BOTTOM NR ASHLEY FALLS, MA (LAT 42 04 15 LONG 073 20 05)										
DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT- MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)		
OCT 31...	1500	0-6	24	2.1	26	1300	.0	.0		
DATE	TIME	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT 31...	0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
DATE	TIME	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	
OCT 31...		.0	.0	.0	.00	0	13	70	100	

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

420345073210100 - HOUSATONIC R OXBOW BOTTOM AT ASHLEY FALLS, MA (LAT 42 03 45 LONG 073 21 01)

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)		
OCT 31...	1315	0-6	20	6.4	26	270	.0	.0		
DATE	TIME	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT 31...	0	.0	.0	2.7	.0	.0	.0	.0	.0	.0
DATE	TIME	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	
OCT 31...		.0	.0	.0	.00	0	29	89	100	
DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	

420344073205900 - HOUSATONIC R OXBOW CENTER AT ASHLEY FALLS, MA (LAT 42 03 44 LONG 073 20 59)

OCT , 1979									
31...	1230	0-6	22	6.2	28	940	24	77	100
31...	1235	6-12	34	3.5	37	2600	25	87	100
31...	1240	12-18	30	3.9	34	1900	16	79	100
31...	1245	18-24	23	4.0	27	1300	16	80	100

420342073205900 - HOUSATONIC R OXBOW TOP AT ASHLEY FALLS, MA (LAT 42 03 42 LONG 073 20 59)

OCT , 1979									
31...	1215	0-6	19	5.4	24	790	16	67	100
31...	1220	0-6	18	7.6	26	780	--	--	--
31...	1225	0-6	14	5.4	19	600	--	--	--

415958073221000 - HOUSATONIC R NEAR PINE GROVE, CT (LAT 41 59 48 LONG 073 22 10)

NOV , 1979									
21...	1000	0-6	29	4.8	34	580	9	64	100

415830073221300 - HOUSATONIC R NR HOLLENBECK R NR AMESVILLE, CT (LAT 41 58 30 LONG 073 22 13)

OCT , 1979									
31...	0930	0-6	12	3.6	16	290	3	21	100

415809073220000 - FALLS VILLAGE RESV E. SIDE AT FALLS VILLAGE, CT (LAT 41 58 09 LONG 073 22 00)

OCT , 1979									
31...	1015	0-6	45	3.1	48	950	8	39	100

415754073221800 - FALLS VILLAGE RESV W. SIDE AT FALLS VILLAGE, CT (LAT 41 57 54 LONG 073 22 18)

NOV , 1979									
21...	1100	0-6	13	6.1	19	770	6	45	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
415748073221900 - HOUSATONIC R AT AMESVILLE, CT (LAT 41 57 48 LONG 073 22 19)									
OCT , 1979									
30...	1300	0-6	17	4.9	22	730	10	43	100
415319073212900 - HOUSATONIC R NEAR W CORNWALL, CT (LAT 41 53 19 LONG 073 21 29)									
NOV , 1979									
19...	1400	0-6	5.0	10	15	47	3	8	100
414951073230500 - HOUSATONIC R AT HOUSATONIC MEADOWS ST PARK NEAR ELLSWORTH, CT (LAT 41 49 51 LONG 073 23 05)									
NOV , 1979									
16...	1200	0-6	--	--	--	260	5	26	100
414321073290800 - HOUSATONIC R AT KENT, CT (LAT 41 43 21 LONG 073 29 08)									
NOV , 1979									
21...	1300	0-6	4.7	.7	5.4	36	3	6	100
414047073303500 - HOUSATONIC R AT BULLS BRIDGE, CT (LAT 41 40 47 LONG 073 30 35)									
NOV , 1979									
21...	1345	0-6	15	5.9	21	230	6	18	100
414043073303000 - HOUSATONIC R AT DAM AT BULLS BRIDGE, CT (LAT 41 40 43 LONG 073 30 30)									
NOV , 1979									
21...	1330	0-6	--	--	--	130	3	13	100
413414073264100 - CANDLEWOOD LK AT NEW MILFORD, CT (LAT 41 34 14 LONG 073 26 41)									
NOV , 1979									
28...	1400	0-6	64	.2	64	510	52	94	100
413407073263700 - CANDLEWOOD LK AT LYNN DEMING PK NEAR NEW MILFORD, CT (LAT 41 34 07 LONG 073 26 37)									
NOV , 1979									
28...	1315	0-7	28	.0	28	190	11	50	100
28...	1320	7-14	10	.0	10	2	15	49	100
28...	1325	14-21	3.3	.0	3.3	3	13	45	100
413312073263300 - CANDLEWOOD LK AT BIRCH PT NEAR NEW MILFORD, CT (LAT 41 33 12 LONG 073 26 33)									
NOV , 1979									
28...	1200	0-6	38	.3	38	15	11	48	100
28...	1205	6-12	19	.1	19	0	14	57	100
413225073241400 - LK LILLINONAH AT LOVERS LEAP NEAR STILL R, CT (LAT 41 32 25 LONG 073 24 14)									
NOV , 1979									
29...	1245	0-6	--	--	--	200	5	23	100
29...	1250	6-12	--	--	--	280	5	39	100
29...	1255	12-18	--	--	--	1300	10	47	100
413133073240700 - LK LILLINONAH AT PUMPKIN HILL NR MEAD CORNER, CT (LAT 41 31 33 LONG 073 24 07)									
NOV , 1979									
29...	1315	0-6	13	2.8	16	280	4	9	100
29...	1320	6-12	8.3	3.7	12	89	7	26	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL % FINER THAN .004 MM	BED MAT. FALL % FINER THAN .062 MM	BED MAT. FALL % FINER THAN 2.00 MM
413038073231600 - LK LILLINONAH AT ROCKY HILL NEAR BROOKFIELD, CT (LAT 41 30 38 LONG 073 23 16)									
NOV , 1979									
29...	1345	0-6	22	.4	22	470	11	79	100
29...	1350	6-12	9.8	.0	9.8	3	8	40	100
29...	1355	12-18	11	.0	11	0	9	36	100
29...	1400	18-24	1.3	.6	1.9	0	7	27	100
413002073223300 - LK LINNINONAH NEAR KINNEYS CORNER, CT (LAT 41 30 02 LONG 073 22 33)									
NOV , 1979									
29...	1445	0-6	36	.2	36	350	10	60	100
29...	1450	6-12	42	.0	42	23	15	50	100
29...	1455	12-18	14	.0	14	0	12	48	100
412900073213400 - LK LILLINONAH NR NORTHROP ST NR BROOKFIELD,CT (LAT 41 29 00 LONG 073 21 34)									
DEC , 1979									
05...	1145	0-6	35	.1	35	270	8	61	100
05...	1150	6-12	33	.0	33	0	10	51	100
412846073204700 - LK LILLINONAH AT WEWAKA BRK NR BROOKFIELD, CT (LAT 41 28 46 LONG 073 20 47)									
DEC , 1979									
05...	1230	0-6	28	.5	28	490	15	78	100
05...	1235	6-12	35	.9	36	410	26	86	100
05...	1240	12-18	17	9.9	27	400	9	77	100
412824073200500 - LK LILLINONAH AT HANOVER RD NR BROOKFIELD, CT (LAT 41 28 24 LONG 073 20 05)									
DEC , 1979									
05...	1330	0-6	21	.7	22	960	15	74	100
05...	1335	6-12	29	.4	29	540	6	59	100
412807073180500 - LK LILLINONAH BLW SHEPAUG R NR BROOKFIELD,CT (LAT 41 28 07 LONG 073 18 05)									
DEC , 1979									
05...	1420	0-6	48	.2	48	660	7	44	100
05...	1425	6-12	25	.1	25	160	9	47	100
05...	1430	12-18	20	.0	20	2	8	36	100
412657073175200 - LK LILLINONAH AT SHEPAUG DAM NR NEWTOWN, CT. (LAT 41 26 57 LONG 073 17 52)									
AUG , 1980									
26...	1130	0-6	46	1.9	48	1500	71	86	100
26...	1135	6-12	76	2.3	78	2700	64	74	100
26...	1140	12-18	53	2.1	55	380	25	74	100
26...	1145	18-24	21	1.8	23	130	10	34	100
412534073141700 - LK ZOAR AT LAKESIDE, CT (LAT 41 25 34 LONG 073 14 17)									
NOV , 1979									
20...	1230	0-6	20	2.2	22	150	20	73	100
20...	1235	6-12	21	3.7	25	33	--	--	--
20...	1240	12-18	40	3.2	43	35	14	79	100
20...	1245	18-24	33	3.6	37	7	15	89	100
412514073123100 - LK ZOAR AT KETTLETOWN ST PARK NR CEDARHURST, CT (LAT 41 25 14 LONG 073 12 31)									
NOV , 1979									
20...	1345	0-6	--	--	--	180	20	77	100
20...	1350	6-12	--	--	--	160	14	56	100
20...	1355	12-18	--	--	--	890	16	83	100
20...	1400	18-24	--	--	--	480	7	37	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC TOT IN BOT MAT (G/KG AS C)	CARBON, INORG. + ORGANIC TOT. IN BOT MAT (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
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412513073123400 - LK ZOAR NR CEDARHURST, CT. (LAT 41 25 13 LONG 073 12 34)

AUG , 1980

14...	1115	0-6	34	.5	34	840	14	72	100
14...	1120	6-12	53	.6	54	770	25	78	100
14...	1125	12-18	24	1.6	26	260	16	66	100
14...	1130	18-24	36	3.5	39	1100	30	84	100

412446073252600 - STILL R AT EAGLE RD AT BEAVERBROOK, CT (LAT 41 24 46 LONG 073 25 26)

NOV , 1979

15...	1415	0-6	5.3	6.7	12	130	2	6	100
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412438073113300 - LK ZOAR AT LEFT AT JACKSON COVE NEAR LAKESIDE, CT (LAT 41 24 38 LONG 073 11 33)

NOV , 1979

27...	1100	0-6	--	--	--	380	23	81	100
27...	1105	6-12	--	--	--	69	17	70	100
27...	1110	12-18	--	--	--	120	25	81	100
27...	1115	18-24	--	--	--	150	21	82	100

412437073112900 - LK ZOAR AT JACKSON COVE NEAR LAKESIDE, CT. (LAT 41 24 37 LONG 073 11 29)

AUG , 1980

14...	1015	0-6	46	1.1	47	620	10	90	100
14...	1020	6-12	57	1.0	58	690	26	92	100
14...	1025	12-18	48	2.3	50	1300	36	82	100
14...	1030	18-24	43	2.0	45	92	40	94	100

412424073253200 - STILL R AT BEAVERBROOK, CT (LAT 41 24 24 LONG 073 25 32)

NOV , 1979

15...	1245	0-6	5.8	9.2	15	130	2	2	100
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	SAMP- LING DEPTH BELOW BED SURFACE (IN)	CARBON, ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT. IN BOT. MAT. (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT. MAT. (G/KG AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
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412332073110800 - LK ZOAR AT HALFWAY R INLET NEAR STEVENSON, CT (LAT 41 23 32 LONG 073 11 08)

NOV , 1979

27...	1200	0-6	--	--	--	880	--	--	--
27...	1205	6-12	--	--	--	1200	32	96	100
27...	1210	12-18	--	--	--	250	31	83	100
27...	1215	18-24	--	--	--	1100	29	87	100

412327073105800 - LK ZOAR AT HALFWAY RIVER AT STEVENSON, CT. (LAT 41 23 27 LONG 073 10 58)

AUG , 1980

05...	1350	0-6	56	.9	57	1300	40	85	100
05...	1355	6-12	64	.6	65	1300	44	92	100
05...	1400	12-18	47	1.0	48	1400	30	85	100

412306073102500 - LK ZOAR AT STEVENSON DAM AT RIVERSIDE, CT (LAT 41 23 06 LONG 073 10 25)

NOV , 1979

27...	1330	0-6	46	1.1	47	370	19	83	100
27...	1335	6-12	43	1.6	45	94	30	89	100
27...	1340	12-18	46	1.6	48	300	33	97	100
27...	1345	18-24	44	1.2	45	550	42	81	100

412303073102100 - LK ZOAR,RIGHT CHANNEL AT STEVENSON,CT. (LAT 41 23 03 LONG 073 10 21)

AUG , 1980

05...	1300	0-6	59	.9	60	2200	49	92	100
05...	1305	6-12	67	.9	68	2200	57	87	100
05...	1310	12-18	55	1.3	56	2100	44	99	100
05...	1315	18-24	53	2.1	55	2200	48	92	100

412259073102200 - LK ZOAR,LEFT CHANNEL AT STEVENSON,CT. (LAT 41 22 59 LONG 073 10 22)

AUG , 1980

14...	1300	0-6	58	.3	58	710	24	93	100
14...	1305	6-12	59	.7	60	2600	40	82	100
14...	1310	12-18	63	.7	64	2300	52	88	100
14...	1315	18-24	52	.5	52	2200	40	93	100
14...	1320	24-30	55	1.4	56	960	49	89	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT)	COLI- FORM, TOTAL, IMMED. (COLS.)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
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HOUSATONIC RIVER BASIN--Continued

01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)

AUG , 1980												
18...	1315	.02	74	7.2	27.0	15.8	1.0	8.6	85	4000	K16	250

01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE, CT. (LAT 41 20 04 LONG 073 10 12)

AUG , 1980												
18...	1440	.39	175	6.0	31.0	16.2	2.0	7.1	72	1600	84	84

01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)

AUG , 1980												
18...	1610	.36	139	6.8	23.5	18.8	3.0	7.3	79	2200	53	170

01208795 - FARMILL RIVER AT ELM ST. NR MONROE, CT. (LAT 41 18 43 LONG 073 13 15)

AUG , 1980												
19...	0920	.08	162	6.2	21.0	17.1	5.0	4.2	44	2000	140	860

01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)

AUG , 1980												
19...	1029	.13	139	7.1	22.0	19.3	1.0	7.3	79	2300	76	220

SAUGATUCK RIVER BASIN

01209012 - SAUGATUCK RIVER AT MARTIN RD. AT LYONS PLAIN, CT. (LAT 41 14 09 LONG 073 20 42)

AUG , 1980												
20...	0840	3.8	107	6.9	22.0	22.0	1.0	6.7	77	19000	220	3100

01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)

AUG , 1980													
20...	0930	7.8	106	7.0	23.0	21.9	1.0	7.2	83	15000	130	300	

01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)

AUG , 1980													
20...	1015	11	107	6.9	21.5	21.8	1.0	7.0	80	10000	120	120	

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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DATE	TIME	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
HOUSATONIC RIVER BASIN--Continued												
01208778 - MEANS BROOK AT EAST VILLAGE,CT. (LAT 41 21 22 LONG 073 10 49)												
AUG , 1980 18...	1315	26	2	7.2	1.9	4.8	27	.4	2.2	24	8.9	6.4
01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)												
AUG , 1980 18...	1440	--	--	--	--	--	--	--	--	--	--	--
01208780 - MEANS BROOK NR HUNTINGTON,CT. (LAT 41 19 10 LONG 073 09 46)												
AUG , 1980 18...	1610	49	18	13	3.9	7.2	23	.5	2.0	31	19	10
01208795 - FARMILL RIVER AT ELM ST.NR MONROE,CT. (LAT 41 18 43 LONG 073 13 15)												
AUG , 1980 19...	0920	--	--	--	--	--	--	--	--	--	--	--
01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)												
AUG , 1980 19...	1029	40	17	11	3.0	10	34	.7	2.0	23	14	15
SAUGATUCK RIVER BASIN--Continued												
01209012 - SAUGATUCK RIVER AT MARTIN RD.AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)												
AUG , 1980 20...	0840	--	--	--	--	--	--	--	--	--	--	--
01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)												
AUG , 1980 20...	0930	39	9	10	3.3	6.2	25	.4	1.2	30	11	9.4
01209016 - SAUGATUCK RIVER AT LYONS PLAIN,CT. (LAT 41 13 23 LONG 073 21 01)												
AUG , 1980 20...	1015	39	8	10	3.4	6.1	25	.4	1.3	31	10	9.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P04)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)
HOUSATONIC RIVER BASIN--Continued												
01208778 - MEANS BROOK AT EAST VILLAGE,CT. (LAT 41 21 22 LONG 073 10 49)												
AUG , 1980 18...	1315	.1	17	78	64	.11	.00	.19	.03	.09	2	--
01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)												
AUG , 1980 18...	1440	--	--	--	--	--	--	--	--	--	--	0
01208780 - MEANS BROOK NR HUNTINGTON,CT. (LAT 41 19 10 LONG 073 09 46)												
AUG , 1980 18...	1610	.2	15	83	91	.11	.08	.38	.00	.00	3	--
01208795 - FARMILL RIVER AT ELM ST,NR MONROE,CT. (LAT 41 18 43 LONG 073 13 15)												
AUG , 1980 19...	0920	--	--	--	--	--	--	--	--	--	--	0
01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)												
AUG , 1980 19...	1029	.3	11	85	84	.12	.03	.86	.00	.00	2	--
SAUGATUCK RIVER BASIN--Continued												
01209012 - SAUGATUCK RIVER AT MARTIN RD.AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)												
AUG , 1980 20...	0840	--	--	--	--	--	--	--	--	--	--	0
01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)												
AUG , 1980 20...	0930	.1	3.3	67	63	.09	1.41	.06	.00	.00	1	--
01209016 - SAUGATUCK RIVER AT LYONS PLAIN,CT. (LAT 41 13 23 LONG 073 21 01)												
AUG , 1980 20...	1015	.1	3.1	62	62	.08	1.84	.06	.00	.00	2	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)
HOUSATONIC RIVER BASIN--Continued												
01208778 - MEANS BROOK AT EAST VILLAGE,CT. (LAT 41 21 22 LONG 073 10 49)												
AUG , 1980 18...	1315	--	--	--	--	80	--	0	--	0	--	<.1
01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)												
AUG , 1980 18...	1440	<10	10	<10	<10	--	2000	--	<10	--	29	--
01208780 - MEANS BROOK NR HUNTINGTON,CT. (LAT 41 19 10 LONG 073 09 46)												
AUG , 1980 18...	1610	--	--	--	--	380	--	2	--	60	--	.1
01208795 - FARMILL RIVER AT ELM ST,NR MONROE,CT. (LAT 41 18 43 LONG 073 13 15)												
AUG , 1980 19...	0920	<10	<10	<10	<10	--	4000	--	20	--	3	--
01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)												
AUG , 1980 19...	1029	--	--	--	--	60	--	2	--	10	--	<.1
SAUGATUCK RIVER BASIN--Continued												
01209012 - SAUGATUCK RIVER AT MARTIN RD,AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)												
AUG , 1980 20...	0840	<10	<10	<10	<10	--	2200	--	<10	--	69	--
01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)												
AUG , 1980 20...	0930	--	--	--	--	50	--	0	--	10	--	<.1
01209016 - SAUGATUCK RIVER AT LYONS PLAIN,CT. (LAT 41 13 23 LONG 073 21 01)												
AUG , 1980 20...	1015	--	--	--	--	10	--	1	--	10	--	<.1

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELE- NIUM, TOTAL DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)
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HOUSATONIC RIVER BASIN--Continued

01208778 - MEANS BROOK AT EAST VILLAGE,CT. (LAT 41 21 22 LONG 073 10 49)

AUG , 1980	18...	1315	--	0	--	--	3.2	1.5	--	--	--	--
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01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)

AUG , 1980	18...	1440	.00	--	0	9	--	--	.0	5	.00	.0
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01208780 - MEANS BROOK NR HUNTINGTON,CT. (LAT 41 19 10 LONG 073 09 46)

AUG , 1980	18...	1610	--	0	--	--	2.2	2.6	--	--	--	--
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01208795 - FARMILL RIVER AT ELM ST.NR MONROE,CT. (LAT 41 18 43 LONG 073 13 15)

AUG , 1980	19...	0920	.00	--	0	30	--	--	.0	0	.00	.0
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01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)

AUG , 1980	19...	1029	--	0	--	--	3.0	4.7	--	--	--	--
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SAUGATUCK RIVER BASIN--Continued

01209012 - SAUGATUCK RIVER AT MARTIN RD.AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)

AUG , 1980	20...	0840	.00	--	0	10	--	--	.0	0	.00	.0
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01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)

AUG , 1980	20...	0930	--	0	--	--	1.2	2.7	--	--	--	--
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01209016 - SAUGATUCK RIVER AT LYONS PLAIN,CT. (LAT 41 13 23 LONG 073 21 01)

AUG , 1980	20...	1015	--	0	--	--	2.5	3.6	--	--	--	--
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ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)
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01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)

01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)

01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)

01208795 - FARMILL RIVER AT ELM ST. NR MONROE, CT. (LAT 41 18 43 LONG 073 13 15)

01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)

SAUGATUCK RIVER BASIN--Continued

01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN, CT. (LAT 41 13 29 LONG 073 20 49)

01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)

[illegible]

[illegible]

01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)

01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE, CT. (LAT 41 20 04 LONG 073 10 12)

01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)

01208795 - FARMILL RIVER AT ELM ST. NR MONROE, CT. (LAT 41 18 43 LONG 073 13 15)

01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)

SAUGATUCK RIVER BASIN--Continued

01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)

01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)

[illegible]

DATE	TIME	LINDANE TOTAL IN BOT- TOM MAT- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MAT- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MAT- TERIAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIAL (UG/KG)
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01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)

[illegible]

01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE, CT. (LAT 41 20 04 LONG 073 10 12)

AUG , 1980													
18...	1440	.0	.00	.00	.0	.00	.00	.00	.00	.0	.00	.00	.00
18...	1440	.0	.00	.00	.0	.00	.00	.00	.00	.0	.00	.00	.00

01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)

AUG , 1980
18... 1610 -- -- -- -- -- -- -- -- -- -- -- --

01208795 - FARMILL RIVER AT ELM ST. NR MONROE, CT. (LAT 41 18 43 LONG 073 13 15)

AUG , 1980												
19...	0920	.0	.00	.00	.0	.00	.00	.00	.0	.00	.00	.00
19...	0920	.0	.00	.00	.0	.00	.00	.00	.0	.00	.00	.00

01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)

[illegible]

01209012 - SAUGATUCK RIVER AT MARTIN RD.AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)

AUG , 1980													
20...	0840	.0	.00	.00	.0	.00	.00	.00	.00	.0	.00	.00	.00

01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)

AUG , 1980
20... 0930 -- -- -- -- -- -- -- -- -- --

01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)

AUG , 1980
20... 1015 -- -- -- -- -- -- -- -- -- --

348 ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
HOUSATONIC RIVER BASIN--Continued								
01208778 - MEANS BROOK AT EAST VILLAGE,CT. (LAT 41 21 22 LONG 073 10 49)								
AUG , 1980								
18...	1315	--	--	--	--	--	--	--
01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE,CT. (LAT 41 20 04 LONG 073 10 12)								
AUG , 1980								
18...	1440	0	0	.00	.00	.00	.00	.00
01208780 - MEANS BROOK NR HUNTINGTON,CT. (LAT 41 19 10 LONG 073 09 46)								
AUG , 1980								
18...	1610	--	--	--	--	--	--	--
01208795 - FARMILL RIVER AT ELM ST.NR MONROE,CT. (LAT 41 18 43 LONG 073 13 15)								
AUG , 1980								
19...	0920	0	0	.00	.00	.00	.00	.00
01208799 - FARMILL RIVER NR MONROE,CT. (LAT 41 18 00 LONG 073 12 24)								
AUG , 1980								
19...	1029	--	--	--	--	--	--	--
SAUGATUCK RIVER BASIN--Continued								
01209012 - SAUGATUCK RIVER AT MARTIN RD.AT LYONS PLAIN,CT. (LAT 41 14 09 LONG 073 20 42)								
AUG , 1980								
20...	0840	0	0	.00	.00	.00	.00	.00
01209014 - SAUGATUCK R AT DAVIS HILL RD AT LYONS PLAIN,CT. (LAT 41 13 29 LONG 073 20 49)								
AUG , 1980								
20...	0930	--	--	--	--	--	--	--
01209016 - SAUGATUCK RIVER AT LYONS PLAIN,CT. (LAT 41 13 23 LONG 073 21 01)								
AUG , 1980								
20...	1015	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
SAUGATUCK RIVER BASIN--Continued												
01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	8.9	105	6.9	21.5	21.2	1.0	7.7	85	5300	35	31
01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)												
AUG , 1980 19...	1402	.11	111	7.1	24.0	20.9	1.0	7.8	88	2700	460	3000
01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	.19	126	6.6	23.0	19.3	1.0	6.0	66	2000	120	460
01209086 - ASPETUCK RIVER AT VALLEY RD,NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	.23	140	7.1	24.0	23.5	1.0	7.5	88	2000	K10	580
NORWALK RIVER BASIN												
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)												
AUG , 1980 20...	1244	1.7	592	7.4	23.0	19.7	2.0	8.3	90	60000	400	150
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	2.5	482	7.4	23.0	20.7	3.0	9.1	101	61000	1900	280
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	3.0	374	7.4	24.0	19.9	2.0	10.3	112	24000	250	60

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
SAUGATUCK RIVER BASIN--Continued												
01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	39	10	10	3.3	6.4	26	.4	1.2	29	12	9.6
01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)												
AUG , 1980 19...	1402	--	--	--	--	--	--	--	--	--	--	--
01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	51	14	13	4.4	5.8	19	.4	2.0	37	17	7.6
01209086 - ASPETUCK RIVER AT VALLEY RD.NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	54	14	14	4.7	5.9	18	.3	2.2	40	17	7.7
NORWALK RIVER BASIN--Continued												
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)												
AUG , 1980 20...	1244	--	--	--	--	--	--	--	--	--	--	--
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	170	110	53	10	18	18	.6	4.3	65	41	72
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	140	81	41	10	15	18	.5	4.1	63	36	50

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-Ft)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P04)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)
SAUGATUCK RIVER BASIN--Continued												
01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	.1	3.2	65	64	.09	1.56	.07	.00	.00	1	--
01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)												
AUG , 1980 19...	1402	--	--	--	--	--	--	--	--	--	--	0
01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	.1	6.2	80	80	.11	.04	.37	.01	.03	2	--
01209086 - ASPETUCK RIVER AT VALLEY RD.NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	.1	2.4	78	78	.11	.05	.08	.00	.00	2	--
NORWALK RIVER BASIN--Continued												
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)												
AUG , 1980 20...	1244	--	--	--	--	--	--	--	--	--	--	0
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	.1	5.3	323	247	.44	2.18	.90	.01	.03	1	--
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	.1	7.2	250	203	.34	2.05	.42	.00	.00	1	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)
SAUGATUCK RIVER BASIN--Continued												
01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	--	--	--	--	40	--	1	--	10	--	<.1
01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)												
AUG , 1980 19...	1402	<10	10	<10	10	--	2700	--	<10	--	190	--
01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	--	--	--	--	100	--	0	--	30	--	<.1
01209086 - ASPETUCK RIVER AT VALLEY RD,NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	--	--	--	--	70	--	0	--	30	--	<.1
NORWALK RIVER BASIN--Continued												
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)												
AUG , 1980 20...	1244	<10	<10	<10	20	--	6200	--	40	--	140	--
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	--	--	--	--	70	--	0	--	80	--	<.1
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	--	--	--	--	90	--	0	--	30	--	<.1

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	PCB, TOTAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)
SAUGATUCK RIVER BASIN--Continued												
01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	--	0	--	--	4.1	4.5	--	--	--	--	--
01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)												
AUG , 1980 19...	1402	.00	--	0	20	--	--	.0	0	.00	.0	.00
01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	--	0	--	--	5.1	4.6	--	--	--	--	--
01209086 - ASPETUCK RIVER AT VALLEY RD.NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	--	0	--	--	4.9	5.8	--	--	--	--	--
NORWALK RIVER BASIN--Continued												
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)												
AUG , 1980 20...	1244	.00	--	0	170	--	--	.0	5	.00	.0	.00
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	--	0	--	--	2.5	7.3	--	--	--	--	--
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	--	0	--	--	2.5	7.1	--	--	--	--	--

[illegible]

[illegible]

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
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SAUGATUCK RIVER BASIN--Continued

01209018 - SAUGATUCK R AT CARTBRIDGE RD AT LYONS PLAIN,CT. (LAT 41 12 25 LONG 073 21 03)

AUG , 1980								
20...	1138	--	--	--	--	--	--	--

01209082 - ASPETUCK RIVER NR REDDING RIDGE,CT. (LAT 41 19 27 LONG 073 20 35)

AUG , 1980								
19...	1402	0	0	.00	.00	.00	.00	.00

01209084 - ASPETUCK R AT CHURCH HILL RD NR REDDING RIDGE,CT (LAT 41 19 00 LONG 073 20 32)

AUG , 1980								
19...	1458	--	--	--	--	--	--	--

01209086 - ASPETUCK RIVER AT VALLEY RD,NR REDDING RIDGE,CT. (LAT 41 18 47 LONG 073 20 13)

AUG , 1980								
19...	1615	--	--	--	--	--	--	--

NORWALK RIVER BASIN--Continued

01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE,CT. (LAT 41 13 35 LONG 073 25 30)

AUG , 1980								
20...	1244	0	0	.00	.11	.00	.00	.00

01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE,CT. (LAT 41 12 58 LONG 073 25 35)

AUG , 1980								
20...	1330	--	--	--	--	--	--	--

01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE,CT. (LAT 41 12 13 LONG 073 25 53)

AUG , 1980								
20...	1425	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)

DATE	TIME	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)
HOUSATONIC RIVER BASIN												
01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)												
AUG , 1980 18...	1315	7	3	5	3	10	70	<30	30	<1	<1000	30
01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)												
AUG , 1980 18...	1610	10	5	7	3	10	100	<30	10	<1	<1000	30
01208799 - FARMILL RIVER NR MONROE, CT. (LAT 41 18 00 LONG 073 12 24)												
AUG , 1980 19...	1029	10	3	10	3	10	70	<30	10	<1	<1000	50
SAUGATUCK RIVER BASIN												
01209014 - SAUGATUCK RIVER AT DAVIS HILL RD AT LYONS PLAIN, CT. (LAT 41 13 29 LONG 073 20 49)												
AUG , 1980 20...	0930	10	3	5	3	3	70	30	10	<1	<1000	30
01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)												
AUG , 1980 20...	1015											
01209018 - SAUGATUCK RIVER AT CARTBRIDGE RD AT LYONS PLAIN, CT. (LAT 41 12 25 LONG 073 21 03)												
AUG , 1980 20...	1138	10	3	5	3	3	70	<30	10	<1	<1000	30
ASPETUCK RIVER BASIN												
01209084 - ASPETUCK RIVER AT CHURCH HILL RD NR REDDING RIDGE, CT. (LAT 41 19 00 LONG 073 20 32)												
AUG , 1980 19...	1458	10	5	5	3	5	70	<30	30	<1	<1000	30
01209086 - ASPETUCK RIVER AT VALLEY RD NR REDDING RIDGE, CT. (LAT 41 18 47 LONG 073 20 13)												
AUG , 1980 19...	1615	10	5	5	5	3	70	<30	30	<1	<1000	30
NORWALK RIVER BASIN												
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE, CT. (LAT 41 12 58 LONG 073 25 35)												
AUG , 1980 20...	1330	50	10	10	10	5	70	<30	50	<1	<1000	300
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE, CT. (LAT 41 12 13 LONG 073 25 53)												
AUG , 1980 20...	1425	50	10	10	7	7	70	<30	50	<1	<1000	300

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)--Continued

DATE	TIME	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)
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HOUSATONIC RIVER BASIN.--Continued

01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)													
AUG , 1980	18...	1315	5	<50	<5	<10	<30	30	100	30	<5	1	10
01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)													
AUG , 1980	18...	1610	5	<50	10	<10	<30	50	1000	30	<5	70	10
01208799 - FARMILL RIVER NR MONROE, CT. (LAT 41 18 00 LONG 073 12 24)													
AUG , 1980	19...	1029	5	<50	<5	70	<30	50	70	30	<5	7	10

SAUGATUCK RIVER BASIN.--Continued

01209014 - SAUGATUCK RIVER AT DAVIS HILL RD AT LYONS PLAIN, CT. (LAT 41 13 29 LONG 073 20 49)													
AUG , 1980	20...	0930	5	<50	5	<10	<30	50	50	50	<5	10	10
01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)													
AUG , 1980	20...	1015											
01209018 - SAUGATUCK RIVER AT CARTBRIDGE RD AT LYONS PLAIN, CT. (LAT 41 12 25 LONG 073 21 03)													
AUG , 1980	20...	1138	7	<50	<5	<10	<30	50	30	50	<5	7	10

ASPETUCK RIVER BASIN.--Continued

01209084 - ASPETUCK RIVER AT CHURCH HILL RD NR REDDING RIDGE, CT. (LAT 41 19 00 LONG 073 20 32)													
AUG , 1980	19...	1458	5	<50	<5	70	<30	50	100	<30	<5	30	10
01209086 - ASPETUCK RIVER AT VALLEY RD NR REDDING RIDGE, CT. (LAT 41 18 47 LONG 073 20 13)													
AUG , 1980	19...	1615	5	<50	<5	50	<30	50	100	30	<5	30	10

NORWALK RIVER BASIN.--Continued

01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE, CT. (LAT 41 12 58 LONG 073 25 35)													
AUG , 1980	20...	1330	5	<50	5	<10	<30	100	100	30	5	70	10
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE, CT. (LAT 41 12 13 LONG 073 25 53)													
AUG , 1980	20...	1425	5	<50	<5	<10	<30	70	100	50	<5	30	10

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)

DATE	TIME	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TI- TANIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)
HOUSATONIC RIVER BASIN.--Continued									
01208778 - MEANS BROOK AT EAST VILLAGE, CT. (LAT 41 21 22 LONG 073 10 49)									
AUG , 1980	18...	1315	<50	30	10	<50	<5	<10	<5
01208780 - MEANS BROOK NR HUNTINGTON, CT. (LAT 41 19 10 LONG 073 09 46)									
AUG , 1980	18...	1610	<50	30	30	<50	<5	<10	7
01208799 - FARMILL RIVER NR MONROE, CT. (LAT 41 18 00 LONG 073 12 24)									
AUG , 1980	19...	1029	<50	30	50	<50	<5	<10	7
SAUGATUCK RIVER BASIN.--Continued									
01209014 - SAUGATUCK RIVER AT DAVIS HILL RD AT LYONS PLAIN, CT. (LAT 41 13 29 LONG 073 20 49)									
AUG , 1980	20...	0930	<50	50	30	70	<5	<10	<5
01209016 - SAUGATUCK RIVER AT LYONS PLAIN, CT. (LAT 41 13 23 LONG 073 21 01)									
AUG , 1980	20...	1015							
01209018 - SAUGATUCK RIVER AT CARTBRIDGE RD AT LYONS PLAIN, CT. (LAT 41 12 25 LONG 073 21 03)									
AUG , 1980	20...	1138	<50	30	30	<50	<5	<10	<5
ASPETUCK RIVER BASIN.--Continued									
01209084 - ASPETUCK RIVER AT CHURCH HILL RD NR REDDING RIDGE, CT. (LAT 41 19 00 LONG 073 20 32)									
AUG , 1980	19...	1458	<50	30	50	<50	<5	<10	<5
01209086 - ASPETUCK RIVER AT VALLEY RD NR REDDING RIDGE, CT. (LAT 41 18 47 LONG 073 20 13)									
AUG , 1980	19...	1615	<50	<10	50	<50	<5	<10	<5
NORWALK RIVER BASIN.--Continued									
01209576 - NORWALK RIVER AT CANNON RD AT CANNONDALE, CT. (LAT 41 12 58 LONG 073 25 35)									
AUG , 1980	20...	1330	<50	30	100	70	<5	<10	30
01209580 - NORWALK RIVER AT ROUTE 7 NR CANNONDALE, CT. (LAT 41 12 13 LONG 073 25 53)									
AUG , 1980	20...	1425	<50	30	100	100	<5	<10	10

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 -

QUANTITATIVE GC/MS ANALYSES OF PURGEABLE ORGANICS IN WATER

DATE	TIME	BEN- ZENE TOTAL (UG/L)	CARBON TETRA- CHLORIDE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
HOUSATONIC RIVER BASIN											
01208779 - MEANS BROOK AT ROUTE 110 NR EAST VILLAGE, CT (LAT 41 20 04 LONG 073 10 12)											
AUG , 1980 18...	1440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01208795 - FARMILL RIVER AT ELM ST NR MONROE, CT (LAT 41 18 43 LONG 073 13 15)											
AUG , 1980 19...	0920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SAUGATUCK RIVER BASIN											
01209012 - SAUGATUCK RIVER AT MARTIN RD AT LYONS PLAIN, CT (LAT 41 14 09 LONG 073 20 42)											
AUG , 1980 20...	0840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01209082 - ASPETUCK RIVER NR REDDING RIDGE, CT (LAT 41 19 27 LONG 073 20 35)											
AUG , 1980 19...	1420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NORWALK RIVER BASIN											
01209573 - NORWALK RIVER AT SEELEY RD NR CANNONDALE, CT (LAT 41 13 35 LONG 073 25 30)											
AUG , 1980 20...	1244	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - Not present at concentrations greater than the detection unit of 2 ug/L.

In order to identify these purgeable compounds in water, they must be first separated from the water by a technique known as "vapor stripping." A stream of inert gas is bubbled through the water sample and then passes through a tube of absorbent material. Nitrogen carries the volatile organics out of the water and into the absorbent trap.

The trap is then connected to a computer-controlled HP 5992A GC/MS spectrometer and heated rapidly to drive the volatile organics into the GC/MS system. Volatile organic compounds pass through the GC column (6' x 1/8" ID 0.2% cabowax 1500 on carbopack C) where they are separated prior to entering the mass-spectrometer. A mass spectrum for each compound is then collected, stored on magnetic tape, and compared against a library of known compounds for positive identification.

A quantitative analysis was made by comparing the total abundance value at the top of each GC/MS peak with the abundance value of the known standards.

FAIRFIELD COUNTY

SITE NUMBER: 413007073250501, LOCAL NUMBER: BD 8

LOCATION.--LAT 41°30'07" LONG 73°25'05" HYDROLOGIC UNIT 01100005, 50 FT (15M) SOUTH AND 10 FT (3M) EAST OF PARKING AREA ALONG STATE ROUTE 7 AT NORTH TOWN LINE, BROOKFIELD; NEW MILFORD QUADRANGLE.
 OWNER: U.S. GEOLOGICAL SURVEY.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 1.25 IN (.03), DEPTH 53 FT (16.2M), PLASTIC CASING TO 50 FT (15.2M), WELL POINT 50 TO 53 FT (15.2 TO 16.2M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 255 FT (78M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING, 0.40 FT (0.12M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--JANUARY 1967 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 26.89 FT (8.20M) BELOW LAND-SURFACE DATUM, JUNE 26, 1972; LOWEST, 33.05 FT (10.07M) BELOW LAND-SURFACE DATUM, JAN. 4, 1967.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	31.65	JAN 28, 1980	30.73	APR 24, 1980	27.45	JUL 24, 1980	30.88
NOV 26	30.96	FEB 25	31.25	MAY 27	28.50	AUG 26	31.78
DEC 27	31.40	MAR 26	30.09	JUN 24	28.85	SEP 26	32.40

SITE NUMBER: 412043073275901, LOCAL NUMBER: DY 90

LOCATION.--LAT 41°20'43" LONG 73°27'59" HYDROLOGIC UNIT 01100006, 450 FT (137.16M) NORTH OF WEST REDDING RD. ON STARRS PLAIN RD. OFF OF STATE ROUTE 7, 250 FT (137.16M) WEST OF STARRS PLAIN RD., DANBURY; DANBURY QUADRANGLE.
 OWNER: STATE OF CONNECTICUT DEP.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 10 FT (3.0M), PVC CASING TO 7 FT (2.1M), SCREENED 7 TO 10 FT (2.1 TO 3.0M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 502 FT (153M). MEASURING POINT: TOP OF PVC CASING, 1.5 FT (0.46M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--MAY 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.47 FT (1.9M) BELOW LAND-SURFACE DATUM, APRIL 29, 1980; LOWEST, 8.56 FT (2.61M) BELOW LAND-SURFACE DATUM, AUGUST 27, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1980	6.47	JUN 26, 1980	8.03	AUG 27, 1980	8.56	SEP 30, 1980	8.48
MAY 29	7.64	JUL 28	8.08				

SITE NUMBER: 411256073153101, LOCAL NUMBER: FF 23

LOCATION.--LAT 41°12'56" LONG 73°15'31" HYDROLOGIC UNIT 01100006, ABOUT 100 FT (30M) SOUTH OF MERRITT PARKWAY AND ABOUT 2000 FT (610M) SOUTHWEST OF STATE ROUTE 59 OVERPASS (EXIT 46), FAIRFIELD; WESTPORT QUADRANGLE.
 OWNER: CONNECTICUT DEPARTMENT OF TRANSPORTATION, FORMERLY REPORTED AS U.S. GEOLOGICAL SURVEY.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 1.25 IN (.03M), DEPTH 42 FT (13M), STEEL CASING TO 39 FT (12M), SCREENED 39 TO 42 FT (12 TO 13M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 130 FT (40M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING, 2.40 FT (0.73M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--SEPTEMBER 1966 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 3.64 FT (1.11M) BELOW LAND-SURFACE DATUM, APRIL 10, 1980; LOWEST, 8.79 FT (2.68M) BELOW LAND-SURFACE DATUM, SEPT. 25, 1967.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	8.10	FEB 07, 1980	8.37	MAR 20, 1980	7.57	MAY 01, 1980	6.79
NOV 27	7.94	14	8.45	27	6.35	15	7.63
DEC 26	7.79	21	8.39	APR 03	6.89	22	8.08
JAN 17, 1980	8.17	28	8.32	10	3.64	JUL 28	8.51
24	8.13	MAR 06	8.41	17	6.29	AUG 26	8.59
29	8.25	13	7.99	24	7.31	SEP 29	8.50

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 412057073103101 , LOCAL NUMBER: MO 47

LOCATION.--LAT 41°20'57", LONG 73°10'31", HYDROLOGIC UNIT 01100005, 65 FT (19.8M) EAST OF THE TURN AROUND OF DEAD END HAMLET RD. WHICH IS IN DEVELOPMENT OFF STATE ROUTE 110, WEST BANK OF MEANS BK. MONROE; LONG HILL QUADRANGLE.
 OWNER: TOWN OF MONROE.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 21 FT (6.4M), PVC TO 18 FT (5.5M), SCREENED 18 TO 21 FT (5.5 TO 6.4M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 366.44 FT (111.7M). MEASURING POINT: TOP OF PVC CASING, .30 FT (.09M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.-- OCTOBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 2.77 FT (0.84M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 4.48 FT (1.36M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1979	3.69	JAN 29, 1980	3.82	MAY 29, 1980	3.46	AUG 27, 1980	4.34
NOV 08	3.88	FEB 28	4.01	JUN 26	3.81	SEP 30	4.48
DEC 04	3.56	MAR 27	2.86	JUL 29	4.15		
JAN 07, 1980	3.71	APR 28	2.77	AUG 12	4.11		

SITE NUMBER: 411840073103101 , LOCAL NUMBER: MO 48

LOCATION.--LAT 41°18'40", LONG 73°13'01", HYDROLOGIC UNIT 01100006, .5MI (0.8KM) SOUTH OF STATE ROUTE 111 ON ELM ST. . 25 FT (7.6M) EAST OF ROAD NEAR OPENING IN STONEWALL, MONROE; LONG HILL QUADRANGLE.
 OWNER: EMIL MICHEL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 21 FT (6.4M), PVC CASING TO 20 FT (6.1M), SCREENED 20 TO 23 FT (6.1 TO 7.0M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 432.88 FT (131.9M). MEASURING POINT: TOP OF PVC CASING, 0.69 FT (.2M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.68 FT (1.73M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 10.95 FT (3.3M) BELOW LAND-SURFACE DATUM, JULY 28, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 1979	8.32	JAN 29, 1980	7.82	MAY 29, 1980	7.74	AUG 27, 1980	9.16
NOV 08	8.40	FEB 28	8.07	JUN 12	6.36	SEP 30	9.39
DEC 04	7.62	MAR 27	5.95	26	8.28		
JAN 07, 1980	7.67	APR 28	5.68	JUL 28	10.95		

SITE NUMBER: 412048073103501 , LOCAL NUMBER: MO 49

LOCATION.--LAT 41°20'48", LONG 73°10'35", HYDROLOGIC UNIT 01100005, 10 FT (3M) FROM CUL-DE-SAC AT SOUTH END OF OLD CASTLE RD. IN DEVELOPMENT OFF OF STATE ROUTE 110 IN MONROE; LONG HILL QUADRANGLE.
 OWNER: TOWN OF MONROE.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 37 FT (11.3M), PVC CASING TO 32 FT (9.7M), SCREENED 32 TO 37 FT (9.7 TO 11.3M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 365.59 FT (111.4M). MEASURING POINT: TOP OF PVC CASING, 1.23 FT (.37M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 0.18 FT (.05M) BELOW LAND-SURFACE DATUM, JANUARY 29 1980; LOWEST, 3.00 FT (.91M) BELOW LAND-SURFACE DATUM, NOVEMBER 8, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	2.80	JAN 29, 1980	0.18	MAY 29, 1980	0.87	AUG 27, 1980	2.50
NOV 08	3.00	FEB 28	0.99	JUN 26	1.53	SEP 30	2.90
DEC 04	0.63	MAR 27	0.47	JUL 29	2.32		
JAN 07, 1980	0.57	APR 28	0.37	AUG 12	1.67		

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411819073131101 ,LOCAL NUMBER: MO 50

LOCATION.--LAT 41°18'19", LONG 73°13'11", HYDROLOGIC UNIT 01100005, OFF STATE ROUTE 111 TO RYEGATE TERR. TURN RIGHT ONTO ARBOR RD., WELL IS 50 FT (15.2M) SOUTH OF RYEGATE TERRACE AND 10 FT (3.05M) EAST OF ARBOR RD., MONROE; LONG HILL QUADRANGLE.
 OWNER: TOWN OF MONROE.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SILT AND SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 50 FT (15.2M), PVC CASING TO 45 FT (13.7M), SLOTTED SCREEN 45 TO 50 FT (13.7 TO 15.2M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 428.78 FT (130.3M). MEASURING POINT: TOP OF PVC CASING, 2 FT (.6M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--OCTOBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 1.19 FT (.36M), BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 4.33 FT (1.32M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1979	3.30	JAN 29, 1980	2.47	MAY 29, 1980	2.03	AUG 27, 1980	4.00
NOV 08	3.05	FEB 28	2.60	JUN 26	2.76	SEP 30	4.33
DEC 04	2.57	MAR 27	1.52	JUL 29	3.61		
JAN 07, 1980	2.51	APR 28	1.19	AUG 12	3.17		

SITE NUMBER: 411820073130001 ,LOCAL NUMBER: MO 51

LOCATION.--LAT 41°18'20", LONG 73°13'00", HYDROLOGIC UNIT 01100005, OFF OF STATE ROUTE 111 ONTO RYEGATE TERRACE, TO END OF THE ROAD, MONROE; LONG HILL QUADRANGLE.
 OWNER: TOWN OF MONROE.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 18 FT (5.5M), PVC CASING TO 13 FT (3.9M), SCREENED 13 TO 18 FT (3.9 TO 5.5M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 428.70 FT (130.6M). MEASURING POINT: TOP OF PVC CASING, 2 FT (.6M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 1.69 FT (.52M), BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 5.07 FT (1.5M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 06, 1979	2.45	FEB 28, 1980	3.01	MAY 29, 1980	2.76	JUL 29, 1980	4.53
JAN 07, 1980	2.86	MAR 27	1.87	JUN 12	2.60	AUG 27	4.80
29	2.16	APR 28	1.69	26	2.69	SEP 30	5.07

SITE NUMBER: 411836073130601 ,LOCAL NUMBER: MO 63

LOCATION.--LAT 41°18'36", LONG 73°13'06", HYDROLOGIC UNIT 01100005, 2000 FT (643M) SOUTH ON ELM ST. FROM STATE ROUTE 111 AND 150 FT (45M) WEST OF ROAD, MONROE; LONG HILL QUADRANGLE.
 OWNER: STEINER INC.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 21 FT (6.4M), PVC CASING TO 18 FT (5.5M), SCREENED 18 TO 21 FT (5.5 TO 6.4M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 424.83 FT (129.4M). MEASURING POINT: TOP OF PVC CASING, 1.4 FT (0.43M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 1.87 FT (.57M), BELOW LAND-SURFACE DATUM, APRIL 29, 1980; LOWEST, 3.58 FT (1.1M) BELOW LAND-SURFACE DATUM, JULY 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1980	1.87	JUN 10, 1980	1.90	JUL 29, 1980	3.58	AUG 27, 1980	3.50
MAY 29	2.30	26	3.17	AUG 12	3.10	SEP 30	3.44

GROUND-WATER LEVELS

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FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 412429073165101 , LOCAL NUMBER: NT 15

LOCATION.--LAT 41°24'29", LONG 73°16'51", HYDROLOGIC UNIT 01100005, 0.65 MI (1.05KM) SOUTHWEST OF STATE ROUTE 34 ON MILE HILL ROAD AND 0.25 MI (0.40KM) NORTH ON A FAIRFIELD STATE HOSPITAL ROAD, NEWTOWN; NEWTOWN QUADRANGLE.

OWNER: U.S. GEOLOGICAL SURVEY.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 1.25 IN (.03M), DEPTH 33 FT (10M), PLASTIC CASING TO 31 FT (9M), WELL POINT 31 TO 33 FT (9 TO 10M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 265 FT (81M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING, 2.40 FT (0.73M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--JANUARY 1967 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.-- HIGHEST WATER LEVEL, 0.61 FT (.19M) BELOW LAND-SURFACE DATUM, JUNE 26, 1972; LOWEST, 10.50 FT (3.20M) BELOW LAND-SURFACE DATUM, OCT. 23, 1971.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	7.87	JAN 28, 1980	4.38	APR 24, 1980	2.10	JUL 24, 1980	7.87
NOV 26	7.00	FEB 25	6.10	MAY 27	3.40	AUG 26	9.19
DEC 27	3.62	MAR 26	2.92	JUN 24	5.95	SEP 26	10.11

SITE NUMBER: 412424073154701 , LOCAL NUMBER: NT 54

LOCATION.--LAT 41°24'24", LONG 73°15'47", HYDROLOGIC UNIT 01100005, SOUTH OF ROUTE 34, EAST OF TODDY HILL ROAD, NEAR SAND PIT, NEWTOWN; NEWTOWN QUADRANGLE.

OWNER: S. CURTIS, INC.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 62 FT (18.9M), STEEL CASING TO 57 FT (17.4M), SCREENED 57 TO 62 FT (17.4 TO 18.9M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 320 FT (97.54M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF STEEL CASING, 3.0 FT (.91M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--AUGUST 1976 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 25.27 FT (7.70M) BELOW LAND-SURFACE DATUM, MAY 27, 1980; LOWEST, 31.64 FT (9.64M) BELOW LAND-SURFACE DATUM, DECEMBER 2, 1976.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	28.07	JAN 28, 1980	28.40	APR 24, 1980	26.60	JUL 24, 1980	26.50
NOV 26	28.34	FEB 25	28.67	MAY 27	25.27	AUG 26	27.33
DEC 27	28.32	MAR 26	28.69	JUN 24	25.79	SEP 26	28.06

SITE NUMBER: 411951073282101 , LOCAL NUMBER: R 53

LOCATION.--LAT 41°18'43", LONG 73°28'21", HYDROLOGIC UNIT 01100006, 25 FT (7.62M) NORTH OF CORNER OF INDOOR TENNIS COURTS AND 300 FT (91.44M) EAST OF ROUTE 7, RIDGEFIELD; BETHEL QUADRANGLE.

OWNER: ERIC ERHARDT, SUGAR HOLLOW RAQUET CLUB.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 18.95 FT (5.78M), PVC CASING TO 14 FT (4.27M), SLOTTED SCREEN 14 TO 18.95 FT (4.27 TO 5.78M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 510 FT (155M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PVC CASING, 1.35 FT (.41M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 2.74 FT (.84M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 5.45 FT (1.66M) BELOW LAND-SURFACE DATUM, JULY 28, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08, 1979	4.70	JAN 29, 1980	4.12	APR 28, 1980	3.18	JUL 28, 1980	5.45
DEC 04	3.70	FEB 28	4.72	MAY 29	4.55	AUG 27	5.36
JAN 08, 1980	4.08	APR 11	2.74	JUN 26	4.91	SEP 30	5.17

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411919073203301 ,LOCAL NUMBER: RD 41

LOCATION.--LAT 41°19'19", LONG 73°20'33", HYDROLOGIC UNIT 01100006, FROM INTERSECTION OF CHURCH HILL RD. AND VALLEY RD. NORTH .35MI (.56KM) TO A.W. JONES ESTATE, 20 FT (7M) FROM THE SOUTHERN END OF STONEWALL AND 15 FT (4.6M) INTO FIELD, REDDING: BOTSFORD QUADRANGLE.
 OWNER: A.W. JONES.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND COBBLES).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 20 FT (6.1M), PVC CASING TO 15 FT (4.6M), SCREENED 15 TO 20 FT (4.6 TO 6.1M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 451.05 FT (137.5M). MEASURING POINT: TOP OF PVC CASING, 2 FT (.6M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--SEPTEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 0.67 FT (.20M), BELOW LAND-SURFACE DATUM, MARCH 27, 1980; LOWEST, 3.19 FT (.97M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1979	3.05	JAN 29, 1980	1.48	MAY 29, 1980	1.74	AUG 27, 1980	3.07
NOV 07	2.40	FEB 28	2.09	JUN 26	2.44	SEP 30	3.19
DEC 04	2.28	MAR 27	0.67	JUL 28	2.72		
JAN 07, 1980	1.30	APR 28	1.01	AUG 11	2.72		

SITE NUMBER: 411902073202401 ,LOCAL NUMBER: RD 42

LOCATION.--LAT 41°19'02", LONG 73°20'24", HYDROLOGIC UNIT 01100006, 300 FT (91M) EAST OF THE INTERSECTION OF CHURCH HILL RD. AND VALLEY RD., 90 FT (2.4M) EAST OF DRIVEWAY TO MR. DIALS HOME, REDDING: BOTSFORD QUADRANGLE.
 OWNER: MORSE DIAL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND TO PEBBLES).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 21 FT (6.4M), PVC CASING TO 18 FT (5.5M), SCREENED 18 TO 21 FT (5.5 TO 6.4M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 454.87 FT (138.6M). MEASURING POINT: TOP OF PVC CASING, 2 FT (.6M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 3.88 FT (1.2M) BELOW LAND-SURFACE DATUM, MARCH 27, 1980; LOWEST, 8.86 FT (2.7M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07, 1979	7.60	FEB 28, 1980	7.02	JUN 26, 1980	7.48	SEP 30, 1980	8.86
DEC 06	6.18	MAR 27	3.88	JUL 28	8.12		
JAN 07, 1980	6.25	APR 28	4.68	AUG 11	7.50		
29	6.48	MAY 29	6.40	27	8.54		

SITE NUMBER: 411909073202201 ,LOCAL NUMBER: RD 43

LOCATION.--LAT 41°19'09", LONG 73°20'22", HYDROLOGIC UNIT 01100006, 700 FT (213M) NORTH OF CHURCH HILL ROAD, 600 FT (183M) EAST ON OLD HATTERTOWN RD. AND 15 FT (4.6M) ON THE RIGHTHAND SIDE OF ROAD, REDDING: BOTSFORD QUADRANGLE.
 OWNER: TOWN OF REDDING.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2IN (.05M), DEPTH 57 FT (17.4M), PVC CASING TO 52 FT (16M), SCREENED 52 TO 57 FT (16 TO 17M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 458.41 FT (137.6M). MEASURING POINT: TOP OF PVC CASING, 1.32FT (.44M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--OCTOBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 4.93 FT (1.5M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 11.42 FT (3.48M) BELOW LAND-SURFACE DATUM, NOVEMBER 7, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1979	8.42	JAN 29, 1980	9.09	APR 28, 1980	7.21	AUG 11, 1980	10.48
NOV 07	11.42	FEB 28	9.72	MAY 29	9.03	27	10.95
DEC 06	8.64	MAR 27	6.18	JUN 26	9.85	SEP 30	11.37
JAN 07, 1980	8.82	APR 11	4.93	JUL 28	10.48		

GROUND-WATER LEVELS

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FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411909073204001 , LOCAL NUMBER: RD 44

LOCATION.--LAT 41°19'09", LONG 73°20'40", HYDROLOGIC UNIT 01100006, 5 FT (1.52M) WEST OF GREAT MEADOW ROAD AND 1200 FT (365.76M) NORTH OF CHURCH HILL ROAD, REDDING; BOTSFORD QUADRANGLE.
 OWNER: TOWN OF REDDING.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 22 FT (6.71M), PVC CASING TO 19 FT (5.79M), WIRE-WOUND SCREEN 19 TO 22 FT (5.79 TO 6.71M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 456.73 FT (139.21M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 2.23 FT (.68M) ABOVE LAND-SURFACE DATUM.
 REMARKS.--OBSTRUCTION IN WELL, MEASUREMENTS DISCONTINUED.
 PERIOD OF RECORD.--DECEMBER 1979 TO JUNE 1980.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.21 FT (1.89M) BELOW LAND-SURFACE DATUM, MARCH 27, 1980; LOWEST, 9.72 FT (2.96M) BELOW LAND-SURFACE DATUM, JUNE 26, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
		JAN 07, 1980	8.44	MAR 27, 1980	6.21	JUN 17, 1980	7.97
		29	8.68	APR 28	7.05	26	9.72
DEC 06 1979	8.14	FEB 28	9.09	MAY 29	8.56	JUL 28	OBSTRUCTION

SITE NUMBER: 411859073253101 , LOCAL NUMBER: RD 45

LOCATION.--LAT 41°18'59", LONG 73°25'31", HYDROLOGIC UNIT 01100006, NORTHWEST CORNER OF SOCCER FIELD, IN BACK OF WEST REDDING VOL. FIRE DEPARTMENT, 25 FT (8M) SOUTH OF CORNER OF FIELD AND 5 FT (1.52M) FROM EDGE OF WOODS, REDDING; BETHEL QUADRANGLE.
 OWNER: WEST REDDING VOL. FIRE DEPARTMENT.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 30 FT (9.14M), PVC CASING TO 27 FT (8.23M), WIRE-WOUND SCREEN 27 TO 30 FT (8.23 TO 9.14M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 370 FT (112.78M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PVC CASING, .13 FT (.04M) BELOW LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 1.15 FT (.35M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 6.38 FT (1.94M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
		JAN 29, 1980	4.36	APR 28, 1980	2.66	AUG 27, 1980	6.31
		FEB 28	4.84	MAY 29	4.18	SEP 30	6.38
DEC 06 1979	5.59	MAR 27	2.02	JUN 26	5.30		
JAN 07, 1980	4.10	APR 11	1.15	JUL 28	5.89		

SITE NUMBER: 412007073100801 , LOCAL NUMBER: SH 41

LOCATION.--LAT 41°20'07", LONG 73°10'08", HYDROLOGIC UNIT 01100005, 200 FT (60.96M) NORTH OF STATE ROUTE 110 AND 300 FT (91.44M) WEST OF ROBERT STOCKMAL'S DRIVEWAY, ALONG SOUTH EDGE OF HAY FIELD, SHELTON; LONG HILL QUADRANGLE.
 OWNER: ROBERT STOCKMAL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 27.55 FT (8.40M), PVC CASING TO 22 FT (6.71M), SLOTTED SCREEN 22 TO 27.55 FT (6.71 TO 8.40M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 369.95 FT (112.76M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, .85 FT (.26M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--SEPTEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 11.19 FT (3.41M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 15.35 FT (4.68M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1979	14.60	JAN 29, 1980	13.48	MAY 29, 1980	13.04	AUG 27, 1980	15.04
NOV 07	14.15	FEB 28	14.07	JUN 26	14.07	SEP 30	15.35
DEC 04	12.99	MAR 27	12.65	JUL 29	14.70		
JAN 07, 1980	13.16	APR 28	11.19	AUG 12	14.75		

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 412030073102801 , LOCAL NUMBER: SH 42

LOCATION.--LAT 41°20'30", LONG 73°10'28", HYDROLOGIC UNIT 01100005, IN GRAVEL PIT, OFF OF SWENSON ROAD, WEST SIDE OF MEANS BROOK AND 110 FT (33.53M) NORTHEAST OF LARGE OAK TREE AT SOUTH END OF PIT AREA, SHELTON; LONG HILL QUADRANGLE.
 OWNER: TOGA LAND DEVELOPMENT CORP.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 30.15 FT (9.19M), PVC CASING TO 25 FT (7.62M), SLOTTED SCREEN 25 TO 30.15 FT (7.62 TO 9.19M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 364.03 FT (110.96M) (FROM LEVEL TRAVERSE).
 MEASURING POINT: TOP OF PVC CASING, 1.6 FT ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 4.49 FT (1.37M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 6.24 FT (1.90M) LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
		JAN 29, 1980	5.13	MAY 29, 1980	5.32	AUG 27, 1980	6.10
		FEB 28	5.37	JUN 26	5.66	SEP 30	6.24
DEC 04, 1979	5.02	APR 11	5.88	JUL 29	5.98		
JAN 07, 1980	5.07	28	4.49	AUG 14	5.81		

SITE NUMBER: 412014073101101 , LOCAL NUMBER: SH 43

LOCATION.--LAT 41°20'14", LONG 73°10'11", HYDROLOGIC UNIT 01100005, 150 FT (45.7M) WEST OF BOY SCOUT CAMP ROAD AND 50 FT (15.2M) NORTH OF OLD GRAVEL PIT, ON R. STOCKMAL PROPERTY, SHELTON; LONG HILL QUADRANGLE.
 OWNER: ROBERT STOCKMAL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 22.3 FT (6.8M), PVC CASING TO 19 FT (5.8M), WIRE-WOUND SCREEN 19 TO 22.3 FT (5.8 TO 6.8M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 368.44 FT (112.3M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, .80 FT (.24M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 7.80 FT (2.38M) BELOW LAND-SURFACE DATUM, APRIL 29, 1980; LOWEST, 11.66 FT (3.55M) BELOW LAND-SURFACE DATUM, SEPTEMBER 30, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1980	7.80	JUN 09, 1980	8.75	JUL 29, 1980	10.31	AUG 27, 1980	11.07
MAY 29	8.36	26	9.52	AUG 12	10.40	SEP 30	11.66

SITE NUMBER: 411310073205401 , LOCAL NUMBER: WES 34

LOCATION.--LAT 41°13'10", LONG 73°20'54", HYDROLOGIC UNIT 01100006, 60 FT (18M) SOUTH OF 10 O'CLOCK LANE AND 350 FT (106.68M) EAST OF LYONS PLAIN ROAD, ON STUDWELL PROPERTY, WESTON; WESTPORT QUADRANGLE.
 OWNER: JULIA STUDWELL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 24.43 FT (7.45M), PVC CASING TO 18.4 FT (5.61M), SLOTTED SCREEN 18.4 TO 24.43 FT (5.61 TO 7.45M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 120.56 FT (36.75M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.81 FT (.55M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 2.14 FT (.65M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 14.98 FT (4.57M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28, 1979	14.22	FEB 28, 1980	12.68	JUN 26, 1980	11.93	SEP 29, 1980	14.98
DEC 06	13.27	APR 11	2.14	JUL 29	13.57		
JAN 07, 1980	11.93	29	7.01	AUG 13	13.59		
29	11.73	MAY 29	9.94	27	14.37		

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411334073205701 , LOCAL NUMBER: WES 35

LOCATION.--LAT 41°13'34", LONG 73°20'57", HYDROLOGIC UNIT 01100006, IN OLD GRAVEL PIT, 15 FT (5M) WEST OF FERN LANE AND 660 FT (2.17M) SOUTHWEST OF DAVIS HILL ROAD, WESTON; WESTPORT QUADRANGLE.
 OWNER: JOE GJURESKO.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 42 FT (13M), PVC CASING TO 39 FT (11.89M), WIRE-WOUND SCREEN 39 TO 42 FT (11.89 TO 12.8M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 120.62 FT (36.76M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 2.00 FT (.61M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.43 FT (1.66M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 12.37 FT (3.77M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 21, 1979	10.05	FEB 28, 1980	11.17	JUN 26, 1980	10.80	SEP 29, 1980	12.37
DEC 06	10.47	APR 11	5.43	JUL 29	11.77		
JAN 07, 1980	9.72	28	7.87	AUG 13	11.60		
29	10.00	MAY 29	9.81	27	11.90		

SITE NUMBER: 411320073205001 , LOCAL NUMBER: WES 36

LOCATION.--LAT 41°13'20", LONG 73°20'50", HYDROLOGIC UNIT 01100006, IN GRASS FIELD, 15 FT (5M) NORTH OF EPISCOPAL CHURCH PARKING LOT, AND 300 FT (91.44M) EAST OF LYONS PLAIN ROAD, WESTON; WESTPORT QUADRANGLE.
 OWNER: EMANUEL EPISCOPAL CHURCH.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 32 FT (10M), PVC CASING TO 29 FT (8.84M), WIRE-WOUND SCREEN 29 TO 32 FT (8.84 TO 9.75M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 129.64 FT (39.51M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.89 FT (.58M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 14.18 FT (4.32M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 22.25 FT (6.78M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 21, 1979	17.65	JAN 29, 1980	19.97	APR 28, 1980	17.54	JUL 29, 1980	21.75
DEC 06	20.56	FEB 28	21.04	MAY 29	19.87	AUG 26	21.87
JAN 07, 1980	19.73	APR 11	14.18	JUN 26	21.23	SEP 29	22.25

SITE NUMBER: 411321073205901 , LOCAL NUMBER: WES 37

LOCATION.--LAT 41°13'21", LONG 73°20'59", HYDROLOGIC UNIT 01100006, ON PROPERTY OF W.S. HILL, LYONS PLAIN ROAD, 15 FT (5M) SOUTH OF SAUGATUCK RIVER AND 30 FT (9.14M) WEST OF LARGE OAK TREE, WESTON; WESTPORT QUADRANGLE.
 OWNER: W. SCOTT HILL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 51 FT (16M), PVC CASING TO 48 FT (14.63M), WIRE-WOUND SCREEN 48 TO 51 FT (14.63 TO 16M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 112.59 FT (34.32M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.25 FT (.38M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, .01 FT (.003M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 4.61 FT (1.40M) BELOW LAND-SURFACE DATUM, DECEMBER 7, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 07, 1979	4.61	FEB 28, 1980	3.87	MAY 29, 1980	3.18	AUG 14, 1980	3.85
JAN 07, 1980	2.91	APR 11	0.01	JUN 26	3.98	26	4.32
29	2.99	28	1.40	JUL 29	4.22	SEP 29	4.59

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411310073205402 , LOCAL NUMBER: WES 38

LOCATION.--LAT 41°13'10", LONG 73°20'54", HYDROLOGIC UNIT 01100006, 60 FT (18M) SOUTH OF 10 O'CLOCK LANE AND 350 FT (107M) EAST OF LYONS PLAIN ROAD, ON STUDWELL PROPERTY, WESTON; WESTPORT QUADRANGLE.
 OWNER: JULIA STUDWELL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 67 FT (20M), PVC CASING TO 64 FT (19.51M), WIRE-WOUND SCREEN 64 TO 67 FT (19.51 TO 20M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 120.56 FT (36.75M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.34 FT (.41M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 8.33 FT (2.54M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 17.08 FT (5.20M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 27, 1979	16.80	FEB 28, 1980	16.04	JUN 26, 1980	15.90	SEP 29, 1980	17.08
DEC 06	15.69	APR 11	8.33	JUL 29	16.58		
JAN 07, 1980	14.95	29	12.52	AUG 13	16.16		
29	15.09	MAY 29	14.47	27	16.80		

SITE NUMBER: 411347073205501 , LOCAL NUMBER: WES 39

LOCATION.--LAT 41°13'47", LONG 73°20'55", HYDROLOGIC UNIT 01100006, 60 FT (18M) WEST OF TENNIS COURT, 50 FT (15.24M) SOUTH OF PAVED DRIVEWAY AND 10 FT (3.05M) SOUTH OF LARGE TAMARACK, OFF OF DAVIS HILL ROAD, WESTON; WESTPORT QUADRANGLE.
 OWNER: NORMAN SCHUR.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 32 FT (9.75M), PVC CASING TO 29 FT (8.84M), WIRE-WOUND SCREEN 29 TO 32 FT (8.84 TO 9.75M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 141.11 FT (43.01M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.82 FT (.55M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 16.06 FT (4.90M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 24.81 FT (7.56M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1979	21.70	JAN 29, 1980	21.51	APR 28, 1980	19.14	JUL 29, 1980	23.70
DEC 06	21.35	FEB 28	22.78	MAY 29	20.84	AUG 26	23.19
JAN 07, 1980	20.88	APR 11	16.06	JUN 26	22.47	SEP 29	24.81

SITE NUMBER: 411304073205301 , LOCAL NUMBER: WES 56

LOCATION.--LAT 41°13'04", LONG 73°20'53", HYDROLOGIC UNIT 01100006, 80 FT (24M) EAST OF BLUEBERRY HILL ROAD AND 200 FT (70M) SOUTH OF STUDWELL RESIDENCE, WESTON; WESTPORT QUADRANGLE.
 OWNER: JULIA STUDWELL.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 62 FT (18.9M), PVC CASING TO 59 FT (18M), SLOTTED SCREEN 59 TO 62 FT (18 TO 18.9M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 122.37 FT (37.30M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 0.64 FT (.20M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 11.58 FT (3.53M) BELOW LAND-SURFACE DATUM, APRIL 11, 1980; LOWEST, 18.79 FT (5.73M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 11, 1980	11.58	MAY 29, 1980	17.23	JUN 26, 1980	17.76	AUG 27, 1980	18.54
29	15.40	JUN 18	18.31	JUL 29	18.34	SEP 29	18.79

GROUND-WATER LEVELS

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FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411248073260201 , LOCAL NUMBER: WN 64

LOCATION.--LAT 41°12'48", LONG 73°26'02", HYDROLOGIC UNIT 01100006, WILTON HIGH SCHOOL GROUNDS, 25 FT (7M) SOUTH OF GOETZEN BROOK AND 38 FT (11M) NORTHWEST OF BASEBALL BACKSTOP, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: TOWN OF WILTON.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 23 FT (7.01M), PVC CASING TO 18 FT (5.49M), SLOTTED SCREEN 18 TO 23 FT (5.49 TO 7.01M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 219.11 FT (66.78M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.20 FT (.36M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, .98 FT (.30M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 6.82 FT (2.08M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1979	3.30	JAN 29, 1980	2.27	APR 28, 1980	0.98	JUL 28, 1980	5.76
DEC 06	2.00	FEB 28	3.94	MAY 29	2.10	AUG 26	6.00
JAN 08, 1980	2.05	APR 02	1.69	JUN 26	3.94	SEP 29	6.82

SITE NUMBER: 411308073255701 , LOCAL NUMBER: WN 65

LOCATION.--LAT 41°13'08", LONG 73°25'57", HYDROLOGIC UNIT 01100006, 15 FT (5M) SOUTH OF OLMSTEAD HILL ROAD AND 40 FT (12M) EAST OF DIRT ROAD LEADING INTO HAY FIELD ACROSS FROM SAUNDERS ROAD WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: ESTHER ALLEN.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 23 FT (7.01M), PVC CASING TO 15 FT (4.57M), SLOTTED SCREEN 15 TO 23 FT (4.57 TO 7.01M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 232.27 FT (70.80M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 2.10 FT (.64M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 7.62 FT (2.32M) BELOW LAND-SURFACE DATUM, APRIL 2, 1980; LOWEST, 15.76 FT (4.80M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1979	12.50	JAN 29, 1980	10.98	APR 28, 1980	8.84	JUL 28, 1980	13.85
DEC 06	10.88	FEB 28	11.86	MAY 29	10.69	AUG 26	14.74
JAN 08, 1980	10.61	APR 02	7.62	JUN 26	12.12	SEP 29	15.76

SITE NUMBER: 411244073254401 , LOCAL NUMBER: WN 66

LOCATION.--LAT 41°12'44", LONG 73°25'44", HYDROLOGIC UNIT 01100006, 125 FT (38M) SOUTHEAST FROM THE NORTHEAST CORNER OF THE WILTON YMCA, ON ROUTE 7, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: WILTON YMCA.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 28 FT (9M), PVC CASING TO 25 FT (7.62M), SLOTTED SCREEN 25 TO 28 FT (7.62 TO 9M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 215.74 FT (65.76M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PVC CASING, 2.10 FT (.64M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.10 FT (1.86M) BELOW LAND-SURFACE DATUM, APRIL 28, 1980; LOWEST, 9.21 FT (2.84M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13, 1979	7.45	FEB 28, 1980	8.25	JUN 26, 1980	8.52	SEP 29, 1980	9.21
DEC 06	7.88	APR 02	6.40	JUL 28	9.02		
JAN 08, 1980	7.88	28	6.10	AUG 14	8.50		
29	7.92	MAY 29	7.97	26	9.20		

FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411241073260501 , LOCAL NUMBER: WN 67

LOCATION.--LAT 41°12'41", LONG 73°26'05", HYDROLOGIC UNIT 01100006, 100 FT (30.4M) WEST OF THE WEST SIDE WALL OF WILTON HIGH SCHOOL, AT THE SOUTHERN END OF THE BUILDING, OFF OF ROUTE 7, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: TOWN OF WILTON.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 27 FT (8.23M), PVC CASING TO 22 FT (6.7M), SLOTTED SCREEN 22 TO 27 FT (6.7 TO 8.23M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 218.77 FT (66.7M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PVC CASING, 1.72 FT (.53M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--DECEMBER 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 8.03 FT (2.45M) BELOW LAND-SURFACE DATUM, APRIL 2, 1980; LOWEST, 12.24 FT (3.73M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 06, 1979	11.00	FEB 28, 1980	9.82	MAY 29, 1980	10.03	AUG 26, 1980	12.06
JAN 08, 1980	10.11	APR 02	8.03	JUN 26	10.84	SEP 29	12.24
29	10.24	28	9.03	JUL 28	11.67		

SITE NUMBER: 411229073260601 , LOCAL NUMBER: WN 68

LOCATION.--LAT 41°12'29", LONG 73°26'06", HYDROLOGIC UNIT 01100006, WILTON HIGH SCHOOL GROUNDS, 30 FT (9.14M) NORTH OF WEST POST OF BASEBALL SCOREBOARD IN FIELD SOUTH OF SCHOOL, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: TOWN OF WILTON.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 20 FT (6.10M), PVC CASING TO 17 FT (5.18M), WIRE-WOUND SCREEN 17 TO 20 FT (5.18 TO 6.10M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 219.60 FT (66.93M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, 1.47 FT (.45M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--NOVEMBER 1979 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.66 FT (2.03M) BELOW LAND-SURFACE DATUM, MARCH 2, 1980; LOWEST, 13.36 FT (4.07M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16, 1979	9.90	JAN 29, 1980	9.94	APR 28, 1980	7.44	JUL 28, 1980	11.37
DEC 06	9.96	FEB 28	9.70	MAY 29	9.18	AUG 26	12.11
JAN 08, 1980	9.61	MAR 02	6.66	JUN 26	10.17	SEP 29	13.36

SITE NUMBER: 411250073255001 , LOCAL NUMBER: WN 80

LOCATION.--LAT 41°12'50", LONG 73°25'50", HYDROLOGIC UNIT 01100006, DOT SANDPILE CANNONDALE, 400 FT (121M) EAST OF ROUTE 7, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: CONNECTICUT DEPARTMENT OF TRANSPORTATION.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 16.3 FT (4.97M), PVC CASING TO 13.3 FT (4.05M), WIRE-WOUND SCREEN 13.3 TO 16.3 FT (4.05 TO 4.97M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 221.22 FT (67.43M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, .51 FT (.16M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.76 FT (1.76M) BELOW LAND-SURFACE DATUM, APRIL 29, 1980; LOWEST, 10.07 FT (3.07M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1980	5.76	JUN 20, 1980	7.70	JUL 28, 1980	8.31	AUG 26, 1980	9.77
MAY 29	7.17	26	8.18	AUG 14	8.59	SEP 29	10.07

GROUND-WATER LEVELS

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FAIRFIELD COUNTY -- CONTINUED

SITE NUMBER: 411250073255002 , LOCAL NUMBER: WN 81

LOCATION.--LAT 41°12'50", LONG 73°25'50", HYDROLOGIC UNIT 01100006, DOT SANDPILE CANNONDALE, 400 FT (121M) EAST OF ROUTE 7, WILTON; NORWALK NORTH QUADRANGLE.
 OWNER: CONNECTICUT DEPARTMENT OF TRANSPORTATION.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 65.5 FT (19.9M), PVC CASING TO 62.5 FT (19M), WIRE-WOUND SCREEN 62.5 TO 65.5 FT (19.0 TO 19.9M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 221.22 FT (67.43M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PVC CASING, .58 FT (.18M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1980 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.94 FT (1.81M) BELOW LAND-SURFACE DATUM, APRIL 29, 1980; LOWEST, 9.97 FT (3.04M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1980	5.94	JUN 26, 1980	8.21	AUG 14, 1980	7.92	SEP 29, 1980	9.97
MAY 29	7.19	JUL 28	9.26	26	9.70		

HARTFORD COUNTY

SITE NUMBER: 414615072581601 , LOCAL NUMBER: BU 2

LOCATION.--LAT 41°46'15", LONG 72°58'16", HYDROLOGIC UNIT 01080207, 95 FT (31M) NORTH OF STATE ROUTE 4 AT JUNCTION WITH ROUTE 69, BURLINGTON; COLLINSVILLE QUADRANGLE.
 OWNER: SNOW REALTY, BRISTOL.
 AQUIFER.--TILL OF PLEISTOCENE AGE.
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 36 IN (.91M), DEPTH 37 FT (11.3M), STONE-LINED.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 880 FT (268M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CURB, 3.00 FT (0.91M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--APRIL 1946 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 12.70 FT (3.87M) BELOW LAND-SURFACE DATUM, AUGUST 19, 1955; LOWEST, 37.41 FT (11.40M) BELOW LAND-SURFACE DATUM, DECEMBER 22, 1948.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	25.74	FEB 25, 1980	20.41	JUN 24, 1980	18.95	SEP 25, 1980	27.25
NOV 26	21.26	MAR 26	21.78	JUL 28	21.42		
DEC 27	19.26	APR 24	16.32	AUG 25	23.92		
JAN 28, 1980	18.89	MAY 27	17.02	SEP 11	25.66		

SITE NUMBER: 414315072511401 , LOCAL NUMBER: F 283

LOCATION.--LAT 41°43'15", LONG 72°51'14", HYDROLOGIC UNIT 01080207, 4,000 FT (1,200M) WEST OF FARMINGTON RIVER, 500 FT (150M) SOUTH OF MEADOW ROAD, FARMINGTON; NEW BRITAIN QUADRANGLE.
 OWNER: TOWN OF FARMINGTON.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 23 FT (7.01M), PLASTIC CASING TO 18 FT (5.49M), SCREENED 18 TO 23 FT (5.49 TO 7.01M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 164.03 FT (49.99M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF PLASTIC CASING, 1.72 FT (.52M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--OCTOBER 1976 TO PRESENT, 11 MONTH INTERRUPTION DECEMBER 1977 TO OCTOBER 1978.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 1.28 FT (.39M) BELOW LAND-SURFACE DATUM, MARCH 26, 1980; LOWEST, 5.59 FT (1.70M) BELOW LAND SURFACE DATUM, JULY 28, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	4.23	JAN 28, 1980	4.78	APR 24, 1980	3.58	JUL 28, 1980	5.59
NOV 26	4.49	FEB 25	5.29	MAY 27	4.73	AUG 25	5.44
DEC 27	3.49	MAR 26	1.28	JUN 24	5.20	SEP 25	5.12

HARTFORD COUNTY -- CONTINUED

SITE NUMBER: 414517072503301 , LOCAL NUMBER: F 294

LOCATION.--LAT 41°45'17", LONG 72°50'33", HYDROLOGIC UNIT 01080207, 0.5M (.80KM) WEST OF TILLISTON ROAD, 90 FT (27M) SOUTHEAST OF TELEPHONE POLE NO. 2021, FARMINGTON; AVON QUADRANGLE.
 OWNER: PENNINGTON CORP.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 28.4 FT (8.66M), PLASTIC CASING TO 23.4 FT (7.13M), SCREENED 23.4 TO 28.4 FT (7.13 TO 8.66M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 231.96 FT (70.70M) (FROM LEVEL TRAVERSE). MEASURING POINT: TOP OF STEEL OUTER CASING, 1.03 FT (.31M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--SEPTEMBER 1976 TO NOVEMBER 1977, NOVEMBER 1978 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 13.30 FT (4.05M) BELOW LAND-SURFACE DATUM, APRIL 24, 1980; LOWEST, 19.82 FT (6.04M) BELOW LAND-SURFACE DATUM, SEPTEMBER 25, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	19.52	JAN 28, 1980	18.53	APR 24, 1980	13.30	JUL 28, 1980	16.96
NOV 26	19.63	FEB 25	18.83	MAY 27	14.08	AUG 25	18.35
DEC 27	19.22	MAR 26	17.50	JUN 24	15.29	SEP 25	19.82

SITE NUMBER: 413724072551101 , LOCAL NUMBER: S 375

LOCATION.--LAT 41°37'24", LONG 72°55'11", HYDROLOGIC UNIT 01100004, 18 FT (5.5M) EAST OF FORK IN DIRT ROAD ON EAST SIDE OF MT. VERNON RD., SOUTHTON; SOUTHTON QUADRANGLE.
 OWNER: FORESTVILLE FISH AND GAME CLUB.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE.
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 28 FT (8.5M), STEEL CASING TO 23 FT (7M), SCREENED 23 TO 28 FT (7 TO 8.5M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 200 FT (67M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PIPE COUPLING AT LAND-SURFACE DATUM.
 PERIOD OF RECORD.--OCTOBER 1975 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.96 FT (2.12M) BELOW LAND-SURFACE DATUM, APRIL 24, 1978; LOWEST, 13.06 FT (3.98M) BELOW LAND-SURFACE DATUM, SEPTEMBER 27, 1976.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	10.09	JAN 28, 1980	9.46	APR 24, 1980	7.05	JUL 28, 1980	10.06
NOV 29	9.15	FEB 25	9.90	MAY 27	7.90	AUG 25	10.65
DEC 26	8.99	MAR 26	8.48	JUN 24	9.06	SEP 25	11.14

SITE NUMBER: 413608072523801 , LOCAL NUMBER: S 377

LOCATION.--LAT 41°36'08", LONG 72°52'38", HYDROLOGIC UNIT 01100004, 3 FT (.9M) EAST OF CURVE IN DRIVEWAY TO TOWN PARKING LOT, CORNER OF ACADEMY ST. AND ROUTE 10, SOUTHTON; SOUTHTON QUADRANGLE.
 OWNER: TOWN OF SOUTHTON.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 32 FT (9.75M), STEEL CASING TO 27 FT (8.2M), SCREENED 27 FT TO 32 FT (8.2M TO 9.8M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 150 FT (45.72M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF STEEL CASING, 0.8 FT (.24M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--OCTOBER 1975 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 18.77 FT (5.72M) ABOVE LAND-SURFACE DATUM, APRIL 24, 1978; LOWEST, 22.66 FT (6.91M) ABOVE LAND-SURFACE DATUM, SEPT. 26, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	21.21	JAN 28, 1980	21.39	APR 24, 1980	19.24	JUL 28, 1980	20.68
NOV 29	21.04	FEB 25	21.84	MAY 27	19.47	AUG 25	21.25
DEC 26	21.06	MAR 26	21.27	JUN 24	20.07	SEP 25	21.83

HARTFORD COUNTY -- CONTINUED

SITE NUMBER: 414910072372101 , LOCAL NUMBER: SW 64

LOCATION.--LAT 41°49'10", LONG 72°37'21", HYDROLOGIC UNIT 01080205, 15 FT (5M) NORTH OF APARTMENT BUILDING AT 652-9 MAIN STREET, SOUTH WINDSOR; MANCHESTER QUADRANGLE.

OWNER: FRANK PIERCE, JR.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 24 IN (.61M), DEPTH 18 FT (5.5M), BRICK-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 40 FT (12M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP EDGE OF HOLE IN FLAGSTONE COVER, 0.50 FT (0.15M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--NOVEMBER 1934 TO SEPTEMBER 1939 AND OCTOBER 1948 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 7.15 FT (2.18M) BELOW LAND-SURFACE DATUM, MARCH 30, 1936; LOWEST, 15.22 FT (4.64M) BELOW LAND-SURFACE DATUM, JAN. 26, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	11.34	FEB 25, 1980	12.08	JUN 24, 1980	11.48	SEP 25, 1980	12.75
NOV 28	11.23	MAR 27	11.06	JUL 29	12.59		
DEC 27	11.33	APR 25	9.78	AUG 25	12.27		
JAN 28, 1980	11.59	MAY 27	10.68	SEP 12	12.62		

LITCHFIELD COUNTY

SITE NUMBER: 420125073193001 , LOCAL NUMBER: NOC 7

LOCATION.--LAT 42°01'25", LONG 73°19'30", HYDROLOGIC UNIT 01100005, 300 FT (91M) SOUTH AND 75 FT (23M) WEST OF JUNCTION OF STATE ROUTES 7 AND 44, NORTH CANAAN; ASHLEY FALLS QUADRANGLE.

OWNER: JAMES LYLE.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 24 IN (0.61M), DEPTH 12 FT (4M), STONE-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 675 FT (206M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF SMALL CURVING KNOB ON ROCK, NORTH SIDE, AT LAND-SURFACE DATUM.

PERIOD OF RECORD.--AUGUST 1958 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 7.60 FT (2.32M) BELOW LAND-SURFACE DATUM, MARCH 26, 1963; LOWEST, 11.12 FT (3.39M) BELOW LAND-SURFACE DATUM, SEPT. 5, 1961.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	9.39	MAR 05, 1980	9.60	MAY 14, 1980	9.35	JUL 23, 1980	9.86
NOV 25	9.40	12	9.44	21	9.48	29	9.94
DEC 26	9.38	19	9.12	28	9.53	AUG 06	9.95
JAN 23, 1980	9.41	26	8.12	JUN 04	9.62	13	9.88
27	9.42	APR 02	8.78	14	9.62	20	9.88
30	9.48	09	8.90	18	9.72	27	9.93
FEB 06	9.48	17	8.92	25	9.80	SEP 03	9.94
13	9.40	23	9.08	JUL 02	9.76	10	9.96
20	9.60	MAY 01	9.27	09	9.73	17	9.96
27	9.62	07	9.32	16	9.82	25	9.98

SITE NUMBER: 414910073072301 , LOCAL NUMBER: T 2

LOCATION.--LAT 41°49'10", LONG 73°07'23", HYDROLOGIC UNIT 01100005, IN STOREROOM OF MACHINE SHOP, WARRENTON WOOLEN CO., TORRINGTON; TORRINGTON QUADRANGLE.

OWNER: WARRENTON WOOLEN CO.

AQUIFER.--CRYSTALLINE BEDROCK.

WELL CHARACTERISTICS.--DRILLED, UNUSED, ARTESIAN WELL, DIAMETER 8 IN (.20M), DEPTH 381 FT (116M), CASSED TO 34 FT (10M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 650 FT (198M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING AT LAND-SURFACE DATUM.

PERIOD OF RECORD.--AUGUST 1958 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.02 FT (1.53M) BELOW LAND-SURFACE DATUM, MAY 8, 1972; LOWEST, 8.60 FT (2.62M) BELOW LAND-SURFACE DATUM, SEPT. 28, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1979	6.50	DEC 31, 1979	6.16	MAR 31, 1980	5.64	JUL 07, 1980	6.82
08	6.12	JAN 07 1980	6.48	APR 07	5.90	14	7.04
15	6.05	14	6.18	14	5.64	21	7.20
22	6.40	21	6.28	21	6.00	28	7.06
29	6.63	28	6.65	28	6.18	AUG 04	7.12
NOV 05	6.27	FEB 04	6.92	MAY 05	6.20	11	7.09
12	6.12	11	7.05	12	6.32	18	7.18
19	6.32	18	7.10	19	6.54	25	6.94
26	6.45	25	6.97	27	6.78	SEP 02	7.19
DEC 03	6.20	MAR 03	7.14	JUN 02	6.86	08	7.28
10	6.30	10	6.68	09	6.96	15	7.48
17	6.30	17	6.48	16	6.97	22	7.18
24	6.56	24	5.08	23	7.15	29	7.40

GROUND-WATER LEVELS

LITCHFIELD COUNTY -- CONTINUED

SITE NUMBER: 413202073122401 , LOCAL NUMBER: WY 1

LOCATION.--LAT 41°32'02", LONG 73°12'24", HYDROLOGIC UNIT 01100005, ABOUT 75 FT (23M) EAST OF MAIN STREET AND 21 FT (6M) NORTH OF IRENE THULIN HOUSE AND ABOUT 500 FT (152M) SOUTH OF ORENAUG ROAD WOODBURY; WOODBURY QUADRANGLE.

OWNER: IRENE BOULTREE.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 30 IN (0.76M), DEPTH 31 FT (9M), STONE-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 270 FT (82M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF ANGLE IRON ON COVER, 2.62 FT (0.80M) ABOVE LAND-SURFACE DATUM.

REMARKS.--RECORDING GAGE INSTALLED OCT.5,1965; REMOVED MAY18,1970. FLUCTUATION AFFECTED BY PUMPING, DEPTH FORMERLY 34.2 FT (10.4M).

PERIOD OF RECORD.--OCTOBER 1913 TO DECEMBER 1916, APRIL 1944 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 19.41 FT (5.92M) BELOW LAND-SURFACE DATUM, APRIL 24, 1980; LOWEST, 33.5 FT (10.2M) BELOW LAND-SURFACE DATUM, OCT. 10, 1914.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	28.71	FEB 26, 1980	25.84	JUN 24, 1980	21.71	SEP 26, 1980	29.28
NOV 29	27.84	MAR 26	22.10	JUL 24	23.26		
DEC 27	25.84	APR 24	19.41	AUG 27	28.06		
JAN 30, 1980	24.52	MAY 27	20.75	SEP 11	29.57		

MIDDLESEX COUNTY

SITE NUMBER: 413033072432001 , LOCAL NUMBER: MF 1

LOCATION.--LAT 41°30'33", LONG 72°43'20", HYDROLOGIC UNIT 01080205, ABOUT 100 FT (30M) EAST OF WEST SREET AND ABOUT 600 FT (183M) SOUTH OF STATE ROUTE 147, MIDDLEFIELD; MIDDLETOWN QUADRANGLE.

OWNER: THE LEISURE GROUP INC. (LYMAN PRODUCTS FOR SHOOTERS).

AQUIFER.--TILL OF PLEISTOCENE AGE.

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 24 IN (0.61M), DEPTH 22 FT (6.7M), STONE-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 260 FT (79M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF FLAGSTONE CURB, NORTH SIDE AT LAND-SURFACE DATUM.

PERIOD OF RECORD.--JULY 1946 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 2.90 FT (.88M) BELOW LAND-SURFACE DATUM, MARCH 26, 1980; LOWEST, 16.92 FT (5.16M) BELOW LAND-SURFACE DATUM, NOV. 24, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	9.93	FEB 25, 1980	9.48	JUN 24, 1980	8.81	SEP 26, 1980	12.44
NOV 27	7.01	MAR 26	2.90	JUL 28	10.60		
DEC 26	6.19	APR 25	6.11	AUG 25	10.99		
JAN 28, 1980	7.52	MAY 27	7.08	SEP 11	11.69		

SITE NUMBER: 413254072335501 , LOCAL NUMBER: MT 261

LOCATION.--LAT 41°32'54", LONG 72°33'55", HYDROLOGIC UNIT 01080205, ABOUT 200 FT (61M) EAST OF RIVER ROAD AND 200 FT (61M) NORTHWEST OF BUILDING 450, MIDDLETOWN; MIDDLE HADDAM QUADRANGLE.

OWNER: UNITED AIRCRAFT CORP., HARTFORD.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 36 IN (0.91M), DEPTH 27.6 FT (8.4M), STONE-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 145 FT (44M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF STONE COVER AT LAND-SURFACE DATUM.

PERIOD OF RECORD.--MARCH 1956 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 17.39 FT (5.30M) BELOW LAND-SURFACE DATUM, MARCH 25, 1977; LOWEST, DRY, NOV. 1, 1957, DEC. 2, 1957, NOV. 25, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	23.42	JAN 28, 1980	19.91	APR 25, 1980	18.58	JUL 28, 1980	21.97
NOV 30	22.02	FEB 25	20.68	MAY 27	19.62	AUG 25	22.91
DEC 27	20.10	MAR 26	17.66	JUN 24	20.57	SEP 25	24.59

NEW HAVEN COUNTY

SITE NUMBER: 411457072524501 , LOCAL NUMBER: EHV 70

LOCATION.--LAT 41°14'57", LONG 72°52'45", HYDROLOGIC UNIT 01100004, 300 FT (91M) WEST AND 65 FT (20M) NORTH OF JUNCTION OF COSEY BEACH ROAD WITH SILVER SANDS ROAD, EAST HAVEN; WOODMONT QUADRANGLE.
 OWNER:P. FEDERICO.
 AQUIFER.--TILL OF PLEISTOCENE AGE.
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 24 IN (.61M), DEPTH 16 FT (5M), CONCRETE-TILE LINED.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 25 FT (8M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CONCRETE TILE, EAST SIDE, 2.10 FT (0.64M) ABOVE LAND-SURFACE DATUM.
 REMARKS.--WELL DESTROYED APRIL 1980.
 PERIOD OF RECORD.--AUG. 1935 TO JUNE 1939 AND APRIL 1951 TO APRIL 1980.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 6.44 FT (1.96M) BELOW LAND-SURFACE DATUM, JUNE 21, 1972; LOWEST, 16.03 FT (4.89M) BELOW LAND-SURFACE DATUM, NOV. 22, 1935.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	12.15	DEC 26, 1979	12.28	FEB 26, 1980	12.91	MAR 25, 1980	8.22
NOV 27	12.54	JAN 29, 1980	12.29				

SITE NUMBER: 411829072542001 , LOCAL NUMBER: NHN 179

LOCATION.--LAT 41°18'29", LONG 72°54'20", HYDROLOGIC UNIT 01100004, 1 FT (0.3M) NORTH OF PARKING LOT CURB, 40 FT (12M) SOUTH OF GRAND AVENUE CENTERLINE, AND 220 FT (67M) WEST OF HAVEN STREET, NEW HAVEN; NEW HAVEN QUADRANGLE.
 OWNER: PORTO CONSTRUCTION CO.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--DRIVEN, UNUSED, WATER-TABLE WELL, DIAMETER 3 IN (.08M), DEPTH 64 FT (19.5M), (FORMERLY REPORTED AS 65 FT).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 13.95 FT (4.25M) (FROM LEVEL TRAVERSE).
 MEASURING POINT: TOP OF CASING, 0.4 FT (0.12M) ABOVE LAND-SURFACE DATUM.
 REMARKS.--UNPUBLISHED RECORDS FOR JANUARY 1957 TO DECEMBER 1959 AVAILABLE IN U.S.G.S. HARTFORD OFFICE. WATER LEVELS AFFECTED BY PUMPING AT LEAST THROUGH 1974, BASED ON LONG-TERM HYDROGRAPH. WATER LEVELS REPORTED AS FEET BELOW MEAN SEA LEVEL BEFORE WATER YEAR 1975.
 PERIOD OF RECORD.--JULY 1939 TO NOVEMBER 1947 AND JANUARY 1957 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 9.50 FT (2.83M) BELOW LAND-SURFACE DATUM, MAY 21, 1975; LOWEST, 21.53 FT (6.56M) BELOW LAND-SURFACE DATUM, JULY 30, 1957, DATE FORMERLY REPORTED AS JULY 26, 1971.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	10.63	JAN 29, 1980	10.98	APR 28, 1980	9.78	JUL 28, 1980	10.63
NOV 27	10.78	FEB 26	10.75	MAY 28	10.01	AUG 26	10.61
DEC 26	10.88	MAR 25	10.83	JUN 26	10.29	SEP 29	10.86

SITE NUMBER: 411826072553601 , LOCAL NUMBER: NHN 354

LOCATION.--LAT 41°18'26", LONG 72°55'36", HYDROLOGIC UNIT 01100004, ON THE GREEN, 70 FT (21M) SOUTH-EAST OF COLLEGE STREET AND 10 FT (3M) SOUTHWEST OF CENTERLINE OF WALKWAY TO WAR MEMORIAL OPPOSITE MIDDLE CHURCH, NEW HAVEN; NEW HAVEN QUADRANGLE.
 OWNER:CITY OF NEW HAVEN PARK DEPT.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).
 WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 1.25 IN (.03M), DEPTH 43 FT (13M), SCREENED 40 TO 43 FT (12 TO 13M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 25 FT (8M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PIPE COUPLING AT LAND-SURFACE DATUM.
 REMARKS.--WATER-QUALITY RECORDS FOR WATER YEARS 1971 TO CURRENT YEAR ARE PUBLISHED IN U.S. GEOLOGICAL SURVEY WATER DATA REPORTS FOR RESPECTIVE WATER YEARS; THOSE FOR THIS WATER YEAR ARE PUBLISHED ELSEWHERE IN THIS REPORT.
 PERIOD OF RECORD.--AUGUST 1971 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 15.00 FT (4.57M) BELOW LAND-SURFACE DATUM, FEBRUARY 24, 1977; LOWEST, 27.00 FT (8.23M) BELOW LAND SURFACE-DATUM, SEPTEMBER 25, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
SEP 25, 1980	27.00

NEW HAVEN COUNTY -- CONTINUED

SITE NUMBER: 411834072570701 , LOCAL NUMBER: NHN 358

LOCATION.--LAT 41°18'34", LONG 72°57'07", HYDROLOGIC UNIT 01100004, IN BARNARD SCHOOL YARD, 150 FT (46M) SOUTH OF DERBY AVENUE AND 5 FT (2M) FROM EAST PROPERTY LINE, NEW HAVEN; NEW HAVEN QUADRANGLE.

OWNER: NEW HAVEN SCHOOL DEPARTMENT.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 1.25 IN (.03M), DEPTH 44 FT (13M), SCREENED 41 TO 44 FT (12 TO 13M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 25 FT (8M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PIPE COUPLING AT LAND-SURFACE DATUM.

REMARKS.--WATER-QUALITY RECORDS FOR WATER YEARS 1971 TO CURRENT YEAR ARE PUBLISHED IN U.S. GEOLOGICAL SURVEY WATER DATA REPORTS FOR RESPECTIVE WATER YEARS; THOSE FOR THIS WATER YEAR ARE PUBLISHED ELSEWHERE IN THIS REPORT.

PERIOD OF RECORD.--AUGUST 1971 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 24.60 FT (7.50M) BELOW LAND-SURFACE DATUM, JUNE 27, 1972; LOWEST, 26.56 FT (8.10M) BELOW LAND-SURFACE DATUM, SEPT. 25, 1974.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
SEP 25, 1980	26.10

SITE NUMBER: 412307072515201 , LOCAL NUMBER: NHV 201

LOCATION.--LAT 41°23'07", LONG 72°51'52", HYDROLOGIC UNIT 01100004, IN CENTER SCHOOL YARD, 7 FT (2.1M) NORTH OF ROW OF TREES, 25 FT (7.6M) EAST OF FENCE BY ELM STREET, NORTH HAVEN; WALLINGFORD QUADRANGLE.

OWNER: TOWN OF NORTH HAVEN.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE.

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER, 2 IN (.051M), DEPTH 32 FT (9.75M), PLASTIC CASING TO 27 FT (8.2M), SCREENED 27 FT TO 32 FT (8.23M TO 9.75M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 35 FT (10.67M) (FROM TOPOGRAPHIC MAP). MEASURING POINT:

TOP OF PLASTIC CASING, 0.7 FT (.21M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--OCTOBER 1975 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 13.27 FT (4.04M) BELOW LAND-SURFACE DATUM, MARCH 27, 1979; LOWEST, 17.00 FT (5.18M) BELOW LAND-SURFACE DATUM, SEPTEMBER 29, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	15.86	JAN 29, 1980	16.47	APR 28, 1980	13.66	JUL 28, 1980	16.12
NOV 27	16.24	FEB 26	16.74	MAY 27	14.38	AUG 26	16.27
DEC 26	16.35	MAR 25	15.07	JUN 26	15.29	SEP 29	17.00

SITE NUMBER: 412550072510701 , LOCAL NUMBER: NHV 202

LOCATION.--LAT 41°25'50", LONG 72°51'07", HYDROLOGIC UNIT 01100004, EAST OF MERRITT PARKWAY, SOUTH OF TOELES ROAD, NEAR NO PARKING SIGN, NORTH HAVEN; WALLINGFORD QUADRANGLE.

OWNER: STATE OF CONNECTICUT.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.051M), DEPTH 65 FT (19.8M), PLASTIC CASING TO 60 FT (18.3M), SCREENED 60 TO 65 FT (18.28 TO 19.8M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 55 FT (16.76M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF PLASTIC CASING, 2.7 FT (.82M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--OCTOBER 1975 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 34.60 FT (10.55M) BELOW LAND-SURFACE DATUM, MAR. 25, 1980; LOWEST, 57.19 FT (17.43M) BELOW LAND-SURFACE DATUM, NOV. 29, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1979	54.30	JAN 29, 1980	52.18	APR 28, 1980	41.83	JUL 28, 1980	49.09
NOV 27	54.84	FEB 26	52.21	MAY 27	42.29	AUG 26	49.50
DEC 26	54.27	MAR 25	34.60	JUN 26	45.72	SEP 29	52.50

GROUND-WATER LEVELS

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NEW HAVEN COUNTY -- CONTINUED

SITE NUMBER: 413134073021701 , LOCAL NUMBER: WB 93

LOCATION.--LAT 41°31'34", LONG 73°02'17", HYDROLOGIC UNIT 01100005, 10 FT (3M) EAST OF HOUSE AT 118 PEARL HILL ROAD, WATERBURY; WATERBURY QUADRANGLE.
 OWNER: MRS. SIMEON W. NICHOLS.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (GRAVEL).
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 32 IN (.81M), DEPTH 33 FT (10M), STONE-LINED.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 320 FT (98M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: BOTTOM EDGE OF FLAGSTONE, NORTHWEST CORNER OF WELL, AT LAND-SURFACE DATUM.
 PERIOD OF RECORD.--FEBRUARY 1944 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 23.09 FT (7.04M) BELOW LAND-SURFACE DATUM, MARCH 26, 1980; LOWEST, 29.68 FT (9.05M) BELOW LAND-SURFACE DATUM, SEPT. 27, 1962.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	27.43	FEB 25, 1980	27.75	JUN 24, 1980	27.71	SEP 26, 1980	28.27
NOV 29	27.08	MAR 26	23.09	JUL 24	27.93		
DEC 27	27.23	APR 24	25.24	AUG 27	28.07		
JAN 28, 1980	27.32	MAY 27	27.29	SEP 11	28.22		

SITE NUMBER: 4132450725H4201 , LOCAL NUMBER: WB 198

LOCATION.--LAT 41°32'45", LONG 72°58'42", HYDROLOGIC UNIT 01100005, 10 FT (3M) NORTH OF HOUSE AT 185 PIERPONT ROAD, WATERBURY; SOUTHTON QUADRANGLE.
 OWNER: A. BAKER.
 AQUIFER.--TILL OF PLEISTOCENE AGE.
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 30 IN (.76M), DEPTH 31 FT (9M), STONE-LINED.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 540 FT (165M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF FLAGSTONE CURB, AT SOUTHEAST CORNER, AT LAND-SURFACE DATUM.
 PERIOD OF RECORD.--FEBRUARY 1944 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 5.45 FT (1.66M) BELOW LAND-SURFACE DATUM, JANUARY 10, 1946; LOWEST, 21.00 FT (6.40M) BELOW LAND-SURFACE DATUM, NOV. 26, 1949.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1979	13.62	JAN 28, 1980	14.25	APR 25, 1980	10.64	JUL 24, 1980	16.02
NOV 29	13.68	FEB 25	15.66	MAY 27	12.74	AUG 27	17.45
DEC 27	13.71	MAR 26	10.86	JUN 24	14.34	SEP 26	19.25

NEW LONDON COUNTY

SITE NUMBER: 412013072030601 , LOCAL NUMBER: GT 19

LOCATION.--LAT 41°20'13", LONG 72°03'06", HYDROLOGIC UNIT 01100003, 150 FT (46M) EAST AND 48 FT (15M) NORTH OF JUNCTION OF POQUONOCK AVENUE (HIGH ROCK ROAD) WITH THOMAS ROAD AND TOWER ROAD, GROTON: NEW LONDON QUADRANGLE.

OWNER: JOHN E. ACKLEY, JR.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 24 IN (.61M), DEPTH 18 FT (5.5M), STONE-LINED.

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 22 FT (7M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: BOTTOM OF FIELDSTONE ON WEST SIDE OF WELL AT LAND-SURFACE DATUM.

PERIOD OF RECORD.--JUNE 1958 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 9.98 FT (3.04M) BELOW LAND-SURFACE DATUM, APRIL 6, 1970; LOWEST, 17.97 FT (5.48M) BELOW LAND-SURFACE DATUM, OCT. 6, 1963.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1979	16.14	JAN 20, 1980	15.43	APR 20, 1980	12.81	JUL 20, 1980	16.55
13	15.72	29	15.52	29	13.70	30	16.75
20	15.83	FEB 05	15.70	MAY 06	13.84	AUG 04	16.76
28	16.07	10	15.84	17	14.47	12	16.82
NOV 06	15.26	20	16.00	26	14.77	20	16.80
20	14.85	27	16.04	JUN 03	15.09	28	16.89
26	14.94	MAR 05	16.12	09	15.33	SEP 03	16.98
DEC 08	15.38	11	16.15	15	15.57	09	17.08
17	15.17	17	15.73	23	15.80	20	17.20
28	15.45	27	11.32	30	16.05		
JAN 06, 1980	15.60	APR 05	12.23	JUL 08	16.23		
15	15.52	16	12.34	14	16.48		

SITE NUMBER: 412824072173301 , LOCAL NUMBER: SM 7

LOCATION.--LAT 41°28'24", LONG 72°17'33", HYDROLOGIC UNIT 01080205, 100 FT (30.5M) EAST OF STATE ROUTE 11 NORTHBOND LANE, 0.9 MI (1.4KM) NORTH OF HIGHWAY TURNOFF, SALEM; HAMBURG QUADRANGLE.

OWNER: CONNECTICUT DEPARTMENT OF TRANSPORTATION.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.05M), DEPTH 17 FT (5.18M), PLASTIC CASING TO 12 FT (3.7M), SCREENED 12 TO 17 FT (3.7 TO 5.2M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 238 FT (72.54M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING, 1.7 FT (.52M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--MARCH 1979 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 7.60 FT (2.32M) BELOW LAND-SURFACE DATUM, MARCH 26, 1980; LOWEST, 13.35 FT (4.07M) BELOW LAND-SURFACE DATUM, SEPTEMBER 26, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	12.01	JAN 28, 1980	10.27	APR 25, 1980	7.87	JUL 28, 1980	12.56
NOV 28	9.86	FEB 25	11.50	MAY 27	8.75	AUG 25	13.05
DEC 28	9.81	MAR 26	7.60	JUN 24	11.04	SEP 26	13.35

SITE NUMBER: 412311071522301 , LOCAL NUMBER: SN 164

LOCATION.--LAT 41°23'11", LONG 71°52'23", HYDROLOGIC UNIT 01100003, 25 FT (7.6M) SOUTH AND 20 FT (6.1M) WEST OF CL&P POLE NO. 6603, SOUTHWEST CORNER OF PAWCATUCK LITTLE LEAGUE FIELD PARKING LOT, STONINGTON; ASHAWAY QUADRANGLE.

OWNER: PAWCATUCK LITTLE LEAGUE.

AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND).

WELL CHARACTERISTICS.--BORED, UNUSED, WATER-TABLE WELL, DIAMETER 2 IN (.051M), DEPTH 19.6 FT (5.97M), STEEL CASING TO 14.6 FT (4.5M), SCREENED 14.6 TO 19.6 FT (4.5 TO 6.0M).

DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 48 FT (14.6M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF STEEL CASING, 0.3 FT (.09M) ABOVE LAND-SURFACE DATUM.

PERIOD OF RECORD.--OCTOBER 1976 TO CURRENT YEAR.

EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 3.42 FT (1.04M) BELOW LAND-SURFACE DATUM, MARCH 23, 1980; LOWEST, 9.00 FT (2.74M) BELOW LAND-SURFACE DATUM, SEPTEMBER 27, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	7.35	MAR 08, 1980	7.63	MAY 17, 1980	7.40	JUL 27, 1980	8.20
NOV 28	6.79	15	7.00	24	6.80	AUG 02	8.30
DEC 28	6.97	23	3.42	JUN 01	7.10	10	8.45
JAN 17, 1980	7.01	29	4.85	08	7.10	16	8.40
26	7.15	APR 05	4.80	15	7.20	24	8.50
FEB 02	7.39	13	5.05	22	7.40	SEP 07	8.75
09	7.50	20	5.85	26	7.55	14	8.90
17	7.65	27	6.40	JUL 06	7.65	20	8.90
24	7.55	MAY 05	6.30	15	7.80	27	9.00
MAR 01	7.63	11	6.50	20	8.00		

GROUND-WATER LEVELS

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TOLLAND COUNTY

SITE NUMBER: 414548072114501 , LOCAL NUMBER: MS 19

LOCATION.--LAT 41°45'48", LONG 72°11'45", HYDROLOGIC UNIT 01100002, 400 FT (122M) EAST OF STATE ROUTE 195 AND 225 FT (69M) NORTH OF CEMETERY ROAD, MANSFIELD; SPRING HILL QUADRANGLE.
 OWNER: C. T. DERDER.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 36 IN (.91M), DEPTH 22 FT (6.7M), CONCRETE TILE.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 260 FT (79M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF TILE AT LAND-SURFACE DATUM.
 PERIOD OF RECORD.--MAY 1958 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 8.89 FT (2.71M) BELOW LAND-SURFACE DATUM, MARCH 24, 1972; LOWEST, 15.72 FT (4.79M) BELOW LAND-SURFACE DATUM, JAN. 26, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	12.33	JAN 28, 1980	11.98	APR 25, 1980	9.67	JUL 29, 1980	12.15
NOV 28	11.84	FEB 25	12.50	MAY 27	10.35	AUG 25	12.27
DEC 27	12.02	MAR 27	10.21	JUN 24	11.30	SEP 25	13.21

WINDHAM COUNTY

SITE NUMBER: 414911071562001 , LOCAL NUMBER: BK 41

LOCATION.--LOT 41°49'11", LONG 71°56'20", HYDROLOGIC UNIT 01100001, 725 FT (221M) EAST OF BARRETT HILL ROAD AND 66 FT (20M) NORTH OF DARBY ROAD, BROOKLYN; DANIELSON QUADRANGLE.
 OWNER: RICHARD BROUILLARD.
 AQUIFER.--CRYSTALLINE BEDROCK.
 WELL CHARACTERISTICS.--DRILLED, UNUSED, ARTESIAN WELL, DIAMETER 6 IN (.15M), DEPTH 107 FT (32.6M), STEEL CASING TO 9 FT (3M).
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 330 FT (101M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF CASING 1.15 FT (.35M) ABOVE LAND-SURFACE DATUM.
 PERIOD OF RECORD.--MARCH 1957 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 3.95 FT (1.20M) BELOW LAND-SURFACE DATUM, MARCH 25, 1972; LOWEST, 17.60 FT (5.36M) BELOW LAND-SURFACE DATUM, SEPT. 27, 1957.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	10.87	FEB 25, 1980	11.84	JUN 24, 1980	12.14	SEP 25, 1980	13.39
NOV 28	10.02	MAR 27	5.36	JUL 29	13.13		
DEC 27	9.63	APR 28	7.55	AUG 25	11.38		
JAN 28, 1980	10.78	MAY 27	10.32	SEP 12	12.89		

SITE NUMBER: 414054071552001 , LOCAL NUMBER: PL 1

LOCATION.--LAT 41°40'54", LONG 71°55'20", HYDROLOGIC UNIT 01100001, 195 FT (59M) SOUTH OF PLEASANT STREET, 1300 FT (400M) EAST OF JUNCTION WITH STATE ROUTE 14, PLAINFIELD; PLAINFIELD QUADRANGLE.
 OWNER: CLIFFORD STARKWEATHER.
 AQUIFER.--STRATIFIED DRIFT OF PLEISTOCENE AGE (SAND AND GRAVEL).
 WELL CHARACTERISTICS.--DUG, UNUSED, WATER-TABLE WELL, DIAMETER 36 IN (.91), DEPTH 34 FT (10.4M), BRICK-LINED.
 DATUM.--ALTITUDE OF LAND-SURFACE DATUM IS 180 FT (55M) (FROM TOPOGRAPHIC MAP). MEASURING POINT: TOP OF STONE CURB AT LAND-SURFACE DATUM.
 REMARKS.--RECORDER REMOVED JUNE 25, 1968. AFFECTED BY A PUMPING WELL 2000 FT (610M) DISTANCE SINCE ABOUT AUGUST 1962.
 PERIOD OF RECORD.--OCTOBER 1942 TO CURRENT YEAR.
 EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 27.24 FT (8.30M) BELOW LAND-SURFACE DATUM, APRIL 28, 1953; LOWEST, 33.22 FT (10.13M) BELOW LAND-SURFACE DATUM, FEB. 11, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	30.99	FEB 25, 1980	30.98	JUN 24, 1980	29.97	SEP 25, 1980	31.34
NOV 28	30.32	MAR 27	30.22	JUL 29	30.67		
DEC 27	30.47	APR 25	28.33	AUG 25	30.82		
JAN 28, 1980	30.68	MAY 27	29.19	SEP 12	31.45		

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
FAIRFIELD COUNTY TOWN OF MONROE										
085 MO 47	41 20 57	073 10 31	01	112DFSF	21	80-08-18	104	6.0	15.0	<1
085 MO 49	41 20 48	073 10 35	01	112DFSF	37	80-08-18	128	6.4	15.0	<1
085 MO 50	41 18 19	073 13 11	01	112DFSF	50	80-08-19	94	6.5	13.0	<1
085 MO 63	41 18 36	073 13 06	01	112DFSF	21	80-08-19	168	6.1	12.0	<1
FAIRFIELD COUNTY TOWN OF REDDING										
117 RD 41	41 19 19	073 20 33	01	112DFSF	20	80-08-19	62	6.3	13.0	<1
117 RD 42	41 19 02	073 20 24	01	112DFSF	21	80-08-19	235	7.3	12.0	<1
117 RD 43	41 19 09	073 20 23	01	112DFSF	57	80-08-19	340	7.3	12.0	<1
FAIRFIELD COUNTY TOWN OF SHELTON										
126 SH 41	41 20 07	073 10 08	01	112DFSF	27	80-08-18	46	6.0	15.0	<1
126 SH 42	41 20 28	073 10 27	01	112DFSF	30	80-08-18	78	6.3	11.5	<1
126 SH 43	41 20 14	073 10 11	01	112DFSF	22	80-08-18	31	6.3	13.0	<1
FAIRFIELD COUNTY TOWN OF WESTON										
157 WES 34	41 13 10	073 20 54	01	112DFSF	24	80-08-20	165	7.2	11.0	<1
157 WES 35	41 13 34	073 20 57	01	112DFSF	42	80-08-20	147	5.9	12.0	<1
157 WES 37	41 13 21	073 20 59	01	112DFSF	51	80-08-20	144	6.3	12.0	<1
157 WES 38	41 13 10	073 20 54	02	112DFSF	67	80-08-20	110	6.2	12.0	<1
FAIRFIELD COUNTY TOWN OF WILTON										
161 WN 66	41 12 44	073 25 44	01	112DFSF	28	80-08-20	271	6.3	12.0	<1
NEW HAVEN COUNTY TOWN OF NEW HAVEN										
093 NHN 354	41 18 26	072 55 36	01	112DFSF	43	80-09-25	600	7.0	16.5	--
093 NHN 358	41 18 34	072 57 07	01	112DFSF	44	80-09-25	510	6.4	15.0	--

Geologic unit (aquifer):
112DFSF - Stratified drift

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

LOCAL IDENT- IFIER		STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)
FAIRFIELD COUNTY--Continued TOWN OF MONROE--Continued											
085	MO 47	112	37	9	10	2.8	4.9	21	.4	2.1	28
085	MO 49	62	44	13	12	3.5	5.3	20	.3	1.9	31
085	MO 50	K6	26	4	6.6	2.2	5.1	27	.4	3.4	22
085	MO 63	K1	54	24	15	4.1	8.8	25	.5	3.6	30
FAIRFIELD COUNTY--Continued TOWN OF REDDING--Continued											
117	RD 41	K1	19	1	4.6	1.8	3.2	25	.3	1.8	18
117	RD 42	<1	110	25	30	7.9	3.9	7	.2	5.0	82
117	RD 43	K1	140	34	38	12	12	15	.4	4.7	110
FAIRFIELD COUNTY--Continued TOWN OF SHELTON--Continued											
126	SH 41	<1	13	2	3.4	1.1	1.6	18	.2	2.0	11
126	SH 42	K3	26	3	7.1	2.0	3.7	22	.3	2.4	23
126	SH 43	E900	8	0	2.2	.6	2.1	34	.3	.7	11
FAIRFIELD COUNTY--Continued TOWN OF WESTON--Continued											
157	WES 34	K1	79	6	24	4.6	2.5	6	.1	2.5	73
157	WES 35	<1	36	22	10	2.6	12	41	.9	2.1	14
157	WES 37	K1	41	23	11	3.2	8.7	30	.6	2.0	18
157	WES 38	K1	31	15	8.6	2.2	7.5	33	.6	1.5	16
FAIRFIELD COUNTY--Continued TOWN OF WILTON--Continued											
161	WN 66	K3	62	42	16	5.3	23	43	1.3	4.4	20
NEW HAVEN COUNTY--Continued TOWN OF NEW HAVEN--Continued											
093	NHN 354	--	300	150	98	13	--	--	--	--	150
093	NHN 358	--	270	130	67	26	--	--	--	--	140

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

E ESTIMATED VALUE

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

LOCAL IDENT- I- FIER		SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
FAIRFIELD COUNTY--Continued TOWN OF MONROE--Continued											
085	MO 47	16	4.7	.1	19	72	79	.10	--	.67	--
085	MO 49	18	5.8	.1	17	89	87	.12	--	.99	--
085	MO 50	8.9	7.5	.2	20	78	73	.11	--	1.4	--
085	MO 63	17	16	.3	16	123	112	.17	--	3.0	--
FAIRFIELD COUNTY--Continued TOWN OF REDDING--Continued											
117	RD 41	11	2.1	.1	11	42	47	.06	--	.19	--
117	RD 42	31	2.1	.2	8.5	131	142	.18	--	.83	--
117	RD 43	16	17	.2	15	230	209	.31	--	6.3	--
FAIRFIELD COUNTY--Continued TOWN OF SHELTON--Continued											
126	SH 41	9.5	2.0	.1	8.9	30	37	.04	--	.41	--
126	SH 42	12	2.3	.1	19	60	66	.08	--	.76	--
126	SH 43	5.5	1.6	.1	12	28	31	.04	--	.00	--
FAIRFIELD COUNTY--Continued TOWN OF WESTON--Continued											
157	WES 34	8.7	2.1	.3	7.4	91	99	.12	--	.66	--
157	WES 35	15	22	.1	12	101	91	.14	--	1.5	--
157	WES 37	15	20	.1	13	100	89	.14	--	1.2	--
157	WES 38	15	14	.1	12	67	73	.09	--	.56	--
FAIRFIELD COUNTY--Continued TOWN OF WILTON--Continued											
161	WN 66	18	56	.1	15	197	155	.27	--	1.2	--
NEW HAVEN COUNTY--Continued TOWN OF NEW HAVEN--Continued											
093	NHN 354	80	60	.1	22	456	--	.62	9.0	10	.00
093	NHN 358	100	27	.1	20	395	--	.54	6.8	6.9	.00

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

LOCAL IDENT- IFIER		NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P04)	ARSENIC DIS- SOLVED (UG/L AS AS)
FAIRFIELD COUNTY--Continued TOWN OF MONROE--Continued											
085	MO 47	--	--	--	--	--	--	--	.00	.00	2
085	MO 49	--	--	--	--	--	--	--	.01	.03	2
085	MO 50	--	--	--	--	--	--	--	.00	.00	0
085	MO 63	--	--	--	--	--	--	--	.00	.00	1
FAIRFIELD COUNTY--Continued TOWN OF REDDING--Continued											
117	RD 41	--	--	--	--	--	--	--	.00	.00	0
117	RD 42	--	--	--	--	--	--	--	.01	.03	1
117	RD 43	--	--	--	--	--	--	--	.02	.06	1
FAIRFIELD COUNTY--Continued TOWN OF SHELTON--Continued											
126	SH 41	--	--	--	--	--	--	--	.00	.00	2
126	SH 42	--	--	--	--	--	--	--	.00	.00	1
126	SH 43	--	--	--	--	--	--	--	.00	.00	2
FAIRFIELD COUNTY--Continued TOWN OF WESTON--Continued											
157	WES 34	--	--	--	--	--	--	--	.01	.03	2
157	WES 35	--	--	--	--	--	--	--	.00	.00	2
157	WES 37	--	--	--	--	--	--	--	.00	.00	2
157	WES 38	--	--	--	--	--	--	--	.00	.00	1
FAIRFIELD COUNTY--Continued TOWN OF WILTON--Continued											
161	WN 66	--	--	--	--	--	--	--	.00	.00	1
NEW HAVEN COUNTY--Continued TOWN OF NEW HAVEN--Continued											
093	NHN 354	.00	.00	.00	9.0	40	.020	.06	--	--	--
093	NHN 358	.00	.05	.05	6.9	30	.020	.06	--	--	--

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

LOCAL IDENT- IFIER	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
FAIRFIELD COUNTY--Continued TOWN OF MONROE--Continued						
085 MO 47	0	0	210	.1	0	2.0
085 MO 49	0	0	20	<.1	0	20
085 MO 50	20	0	70	.1	1	2.0
085 MO 63	20	1	230	.1	0	1.5
FAIRFIELD COUNTY--Continued TOWN OF REDDING--Continued						
117 RD 41	10	0	240	<.1	0	1.9
117 RD 42	20	0	430	.1	0	4.0
117 RD 43	0	1	30	<.1	0	1.5
FAIRFIELD COUNTY--Continued TOWN OF SHELTON--Continued						
126 SH 41	0	0	30	<.1	0	3.2
126 SH 42	20	1	290	<.1	0	1.5
126 SH 43	0	0	40	<.1	0	1.8
FAIRFIELD COUNTY--Continued TOWN OF WESTON--Continued						
157 WES 34	10	0	10	<.1	0	4.2
157 WES 35	0	0	40	<.1	0	1.2
157 WES 37	10	3	30	.1	0	2.5
157 WES 38	0	0	10	<.1	0	2.7
FAIRFIELD COUNTY--Continued TOWN OF WILTON--Continued						
161 WN 66	180	2	60	<.1	0	3.9
NEW HAVEN COUNTY--Continued TOWN OF NEW HAVEN--Continued						
093 NHN 354	--	--	--	--	--	--
093 NHN 358	--	--	--	--	--	--

< ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)
FAIRFIELD COUNTY TOWN OF MONROE										
085 MO 47	41 20 57	073 10 31	01	112DFSF	21	80-08-18	10	3	5	3
085 MO 49	41 20 48	073 10 35	01	112DFSF	37	80-08-18	10	5	5	3
085 MO 50	41 18 19	073 13 11	01	112DFSF	50	80-08-19	7	3	5	3
085 MO 63	41 18 36	073 13 06	01	112DFSF	21	80-08-19	10	5	7	5
LOCAL IDENT- I- FIER	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	
085 MO 47	10	< 50	< 30	10	< 1	< 1000	30	5	< 50	
085 MO 49	10	< 50	< 30	10	< 1	< 1000	30	5	< 50	
085 MO 50	10	70	< 30	10	< 1	< 1000	30	7	< 50	
085 MO 63	10	50	< 30	30	< 1	< 1000	50	5	< 50	
LOCAL IDENT- I- FIER	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)	
085 MO 47	< 5	< 10	< 30	50	10	30	< 5	300	10	
085 MO 49	< 5	70	< 30	50	10	30	< 5	10	10	
085 MO 50	< 5	< 10	< 30	50	10	50	< 5	70	10	
085 MO 63	< 5	< 10	< 30	50	10	30	< 5	300	10	
LOCAL IDENT- I- FIER	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TITA- NIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)		
085 MO 47	< 50	30	10	< 50	< 5	< 10	10	< 5		
085 MO 49	< 50	30	10	< 50	< 5	< 10	30	< 5		
085 MO 50	< 50	30	10	50	< 5	< 10	10	< 5		
085 MO 63	< 50	30	70	50	< 5	< 10	10	< 5		

Geologic unit (aquifer):
112DFSF - Stratified Drift

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)
FAIRFIELD COUNTY TOWN OF REDDING										
117 RD 41	41 19 19	073 20 33	01	112DFSF	20	80-08-19	5	3	3	3
117 RD 42	41 19 02	073 20 24	01	112DFSF	21	80-08-19	30	10	3	7
117 RD 43	41 19 09	073 20 23	01	112DFSF	57	80-08-19	30	10	10	10
LOCAL IDENT- I- FIER	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	
117 RD 41	10	50	<30	10	<1	<1000	30	5	<50	
117 RD 42	7	70	<30	50	<1	<1000	30	5	<50	
117 RD 43	10	70	<30	50	<1	<1000	50	7	<50	
LOCAL IDENT- I- FIER	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)	
117 RD 41	5	<10	<30	50	7	50	<5	300	10	
117 RD 42	<5	100	<30	70	10	30	<5	500	30	
117 RD 43	<5	<10	<30	100	30	50	<5	30	10	
LOCAL IDENT- I- FIER	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TITA- NIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)		
117 RD 41	<50	30	10	50	<5	<10	10	<5		
117 RD 42	<50	30	70	70	<5	<10	10	<5		
117 RD 43	<50	30	100	100	<5	<10	100	<5		

Geologic unit (aquifer):

112DFSF - Stratified Drift

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)
FAIRFIELD COUNTY TOWN OF SHELTON										
126 SH 41	41 20 07	073 10 08	01	112DFSF	27	80-08-18	3	1	1	3
126 SH 42	41 20 28	073 10 27	01	112DFSF	30	80-08-18	7	3	3	3
126 SH 43	41 20 14	073 10 11	01	112DFSF	22	80-08-18				
LOCAL IDENT- I- FIER	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	
126 SH 41	7	50	< 30	30	<1	<1000	30	5	<50	
126 SH 42	10	<50	< 30	10	<1	<1000	30	5	<50	
126 SH 43										
LOCAL IDENT- I- FIER	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)	
126 SH 41	< 5	70	< 30	<30	7	<30	< 5	30	10	
126 SH 42	< 5	30	< 30	<30	30	30	< 5	300	10	
126 SH 43										
LOCAL IDENT- I- FIER	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TITA- NIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)		
126 SH 41	<50	10	7	<50	<5	<10	7	<5		
126 SH 42	<50	10	10	<50	<5	<10	10	<5		
126 SH 43										

Geologic unit (aquifer):

112DFSF - Stratified Drift

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)
FAIRFIELD COUNTY TOWN OF WESTON										
157 WES 34	41 13 10	073 20 54	01	112DFSF	24	80-08-20	30	5	3	5
157 WES 35	41 13 34	073 20 57	01	112DFSF	42	80-08-20	10	3	10	3
157 WES 37	41 13 21	073 20 59	01	112DFSF	51	80-08-20	10	3	10	3
157 WES 38	41 13 10	073 20 54	02	112DFSF	67	80-08-20	7	3	7	3
LOCAL IDENT- I- FIER	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	
157 WES 34	7	70	<30	10	<1	<1000	30	5	<50	
157 WES 35	10	50	<30	30	<1	<1000	30	5	<50	
157 WES 37	10	50	<30	30	<1	<1000	30	5	<50	
157 WES 38	10	70	<30	30	<1	<1000	50	5	<50	
LOCAL IDENT- I- FIER	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)	
157 WES 34	<5	50	<30	50	5	30	<5	7	10	
157 WES 35	<5	70	<30	50	10	50	<5	30	10	
157 WES 37	<5	50	<30	50	7	30	<5	30	10	
157 WES 38	<5	<10	<30	50	7	50	<5	3	10	
LOCAL IDENT- I- FIER	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TITA- NIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)		
157 WES 34	<50	30	30	<50	<5	<10	<5	<5		
157 WES 35	<50	30	50	<50	<5	<10	<5	<5		
157 WES 37	<50	30	50	<50	<5	<10	5	<5		
157 WES 38	<50	30	50	<50	<5	<10	5	<5		

Geologic unit (aquifer):

112DFSF - Stratified Drift

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	CALCIUM, DIS- SOLVED (MG/L as Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L as Mg)	SODIUM, DIS- SOLVED (MG/L as Na)	POTAS- SIUM, DIS- SOLVED (MG/L as K)
FAIRFIELD COUNTY TOWN OF WILTON										
161 WN 66	41 12 44	073 25 44	01	112DFSF	28	80-08-20	10	7	30	7
LOCAL IDENT- I- FIER	SILICA, DIS- SOLVED (MG/L as SiO ₂)	ALUMI- NUM, DIS- SOLVED (UG/L as Al)	ANTI- MONY, DIS- SOLVED (UG/L as Sb)	BARIUM, DIS- SOLVED (UG/L as Ba)	BERYL- LIUM, DIS- SOLVED (UG/L as Be)	BIS- MUTH, DIS- SOLVED (UG/L as Bi)	BORON, DIS- SOLVED (UG/L as B)	CADMIUM, DIS- SOLVED (UG/L as Cd)	CHRO- MIUM, DIS- SOLVED (UG/L as Cr)	
161 WN 66	10	100	<30	70	<1	<1000	30	5	<50	
LOCAL IDENT- I- FIER	COBALT, DIS- SOLVED (UG/L as Co)	COPPER, DIS- SOLVED (UG/L as Cu)	GALLIUM, DIS- SOLVED (UG/L as Ga)	GERMA- NIUM, DIS- SOLVED (UG/L as Ge)	IRON, DIS- SOLVED (UG/L as Fe)	LEAD, DIS- SOLVED (UG/L as Pb)	LITHIUM, DIS- SOLVED (UG/L as Li)	MANGA- NESE, DIS- SOLVED (UG/L as Mn)	MOLYB- DENUM, DIS- SOLVED (UG/L as Mo)	
161 WN 66	10	<10	<30	70	100	30	<5	70	10	
LOCAL IDENT- I- FIER	NICKEL, DIS- SOLVED (UG/L as Ni)	SILVER, DIS- SOLVED (UG/L as Ag)	STRON- TIUM, DIS- SOLVED (UG/L as Sr)	TIN, DIS- SOLVED (UG/L as Sn)	TITA- NIUM, DIS- SOLVED (UG/L as Ti)	VANA- DIUM, DIS- SOLVED (UG/L as V)	ZINC, DIS- SOLVED (UG/L as Zn)	ZIR- CONIUM, DIS- SOLVED (UG/L as Zr)		
161 WN 66	<50	30	100	50	10	<10	10	<5		

Geologic unit (aquifer):

112DFSF - Stratified Drift

All results are reported in Mg/L. Results are rounded to the nearest reporting level. Reporting levels range from the detection limit in steps of 1, 3, 5, 7, and 10. Levels which are less than the detection limit are reported as < that value. Levels which are greater than the upper concentration limit are reported as > that value. For example, for an analysis of lead, the result would be reported as one of the following concentrations in Mg/L: <0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5, 7, >10. Results are reported to one significant figure only. Due to the rounding technique, even one significant figure is an estimate. The precision is approximately plus or minus one step at the 68 percent confidence level (1 std. dev.) and two steps at 95 percent confidence level (2 std. dev.).

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

QUANTITATIVE GC/MS ANALYSES OF PURGEABLE ORGANICS IN WATER

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
FAIRFIELD COUNTY TOWN OF MONROE								
085 MO 47	41 20 57	073 10 31	01	112DFSF	21	80-08-18	ND	ND
085 MO 49	41 20 48	073 10 35	01	112DFSF	37	80-08-18	ND	ND
085 MO 50	41 18 19	073 13 11	01	112DFSF	50	80-08-19	ND	ND
085 MO 63	41 18 36	073 13 06	01	112DFSF	21	80-08-19	3.2	ND

LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
085 MO 47	ND	ND	ND	ND	ND	ND	ND	ND
085 MO 49	ND	ND	ND	ND	ND	ND	ND	ND
085 MO 50	ND	ND	ND	ND	ND	ND	ND	ND
085 MO 63	ND	20	ND	ND	ND	ND	ND	8.8

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
FAIRFIELD COUNTY TOWN OF REDDING								
117 RD 41	41 19 19	073 20 24	01	112DFSF	20	80-08-19	112	ND
117 RD 42	41 19 02	073 20 24	01	112DFSF	20	80-08-19	ND	ND
117 RD 43	41 19 09	073 20 23	01	112DFSF	57	80-08-19	ND	ND

LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
117 RD 41	ND	ND	7.2	ND	ND	ND	ND	ND
117 RD 42	ND	ND	ND	ND	ND	ND	ND	ND
117 RD 43	ND	ND	ND	ND	ND	ND	ND	ND

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
FAIRFIELD COUNTY TOWN OF SHELTON								
126 SH 41	41 20 07	073 10 08	01	112DFSF	27	80-08-18	ND	ND
126 SH 42	41 20 28	073 10 27	01	112DFSF	30	80-08-18	ND	ND
126 SH 43	41 20 14	073 10 11	01	112DFSF	22	80-08-18	2	ND

LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
126 SH 41	ND	ND	ND	ND	ND	ND	ND	ND
126 SH 42	ND	ND	ND	ND	ND	ND	ND	ND
126 SH 43	ND	ND	ND	ND	ND	ND	ND	ND

Geologic unit (aquifer):
112DFSF - Stratified Drift

ND - Not present at concentrations greater than the detection unit of 2 ug/L.

In order to identify these purgeable compounds in water, they must be first separated from the water by a technique known as "vapor stripping." A stream of inert gas is bubbled through the water sample and then passes through a tube of absorbent material. Nitrogen carries the volatile organics out of the water and into the absorbent trap.

The trap is then connected to a computer-controlled HP 5992A GC/MS spectrometer and heated rapidly to drive the volatile organics into the GC/MS system. Volatile organic compounds pass through the GC column (6' x 1/8" ID 0.2% cabowax 1500 on carbowax C) where they are separated prior to entering the mass spectrometer. A mass spectrum for each compound is then collected, stored on magnetic tape, and compared against a library of known compounds for positive identification.

A quantitative analysis was made by comparing the total abundance value at the top of each GC/MS peak with the abundance value of the known standards.

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980--Continued

QUANTITATIVE GC/MS ANALYSES OF PURGEABLE ORGANICS IN WATER--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
FAIRFIELD COUNTY TOWN OF WESTON								
157 WES 34	41 13 10	073 20 54	01	112DFSF	24	80-08-20	ND	ND
157 WES 35	41 13 34	073 20 57	01	112DFSF	42	80-08-20	ND	ND
157 WES 37	41 13 21	073 20 59	01	112DFSF	51	80-08-20	ND	ND
157 WES 38	41 13 10	073 20 54	02	112DFSF	67	80-08-20	ND	ND
LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
157 WES 34	ND	ND	ND	ND	ND	ND	ND	ND
157 WES 35	ND	ND	ND	ND	ND	ND	ND	ND
157 WES 37	ND	ND	ND	ND	ND	ND	ND	ND
157 WES 38	ND	ND	ND	ND	ND	ND	ND	ND
LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
FAIRFIELD COUNTY TOWN OF WILTON								
161 WN 66	41 12 44	073 25 44	01	112DFSF	28	80-08-20	ND	ND
LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
161 WN 66	ND	ND	ND	ND	ND	ND	ND	ND
LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO.	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	BEN- ZENE, TOTAL (UG/L)	CARBON TETRA- CHLORIDE, TOTAL (UG/L)
LITCHFIELD COUNTY TOWN OF WOODBURY								
168 WY 25	41 33 39	073 11 43	01	112DFSF	22	79-11-14	ND	ND
168 WY 35	41 31 19	073 12 35	01	112DFSF	23	79-11-14	ND	ND
168 WY 42	41 31 24	073 12 24	01	112DFSF	26	79-11-14	ND	ND
LOCAL IDENT- I- FIER	CHLORO- FORM TOTAL (UG/L)	1,1-DI- CHLORO- ETHYLENE TOTAL (UG/L)	METHYLENE- CHLORIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYLENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	1,2-TRANS- DICHLORO- ETHYLENE TOTAL (UG/L)	TRI- CHLORO- ETHYLENE TOTAL (UG/L)	1,1,1-TRI- CHLORO- ETHANE TOTAL (UG/L)
168 WY 25	ND	ND	ND	ND	ND	ND	ND	ND
168 WY 35	ND	ND	ND	ND	4	ND	ND	ND
168 WY 42	ND	137	ND	ND	ND	ND	ND	ND

Geologic unit (aquifer):
112DFSF - Stratified Drift

ND - Not present at concentrations greater than the detection unit of 2 ug/L.

In order to identify these purgeable compounds in water, they must be first separated from the water by a technique known as "vapor stripping." A stream of inert gas is bubbled through the water sample and then passes through a tube of absorbent material. Nitrogen carries the volatile organics out of the water and into the absorbent trap.

The trap is then connected to a computer-controlled HP 5992A GC/MS spectrometer and heated rapidly to drive the volatile organics into the GC/MS system. Volatile organic compounds pass through the GC column (6' x 1/8" ID 0.2% cabowax 1500 on carbopack C) where they are separated prior to entering the mass spectrometer. A mass spectrum for each compound is then collected, stored on magnetic tape, and compared against a library of known compounds for positive identification.

A quantitative analysis was made by comparing the total abundance value at the top of each GC/MS peak with the abundance value of the known standards.

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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