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CONNECTICUT
1979



Water Resources Data for Connecticut

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-79-1

WATER YEAR 1979

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

CALENDAR FOR WATER YEAR 1979

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WATER YEAR 1979

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Connecticut write to
District Chief, Water Resources Division
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Hartford, Connecticut 06103

1980

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 S. M. Lang, Acting Assistant Chief Hydrologist for Scientific Publications and Data Management.

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CONTENTS

	Page
Preface.....	III
List of gaging stations, in downstream order, for which records are published.....	VII
Introduction.....	1
Cooperation.....	2
Acknowledgements.....	3
Hydrologic conditions.....	3
Definition of terms.....	4
Downstream order and station number.....	19
Numbering system for wells and miscellaneous sites..	20
Special networks and programs	21
Explanation of stage and water-discharge records....	22
Collection and computation of data.....	22
Accuracy of field data and computed results.....	27
Other data available.....	28
Explanation of water-quality records.....	28
Collection and examination of data.....	28
Water analysis.....	29
Water temperature.....	30
Sediment.....	30
Water-quality criteria.....	31
Explanation of ground-water level records.....	34
Collection of data.....	34
Publications on techniques of water-resources investigations.....	35
Gaging-station records.....	41
Discharge at partial-record stations.....	314
Crest-stage partial-record stations.....	314
Miscellaneous sites.....	318
Analyses of samples collected at miscellaneous sites	319
Ground-water records.....	328
Ground-water level records.....	328
Quality of ground-water records.....	355
Index.....	362

ILLUSTRATIONS

Figure 1.	System for numbering wells and miscellaneous sites	20
2.	Map showing location of gaging stations..	37
3.	Map showing location of partial-record stations.....	38
4.	Map showing location of observation wells and ground-water quality sampling areas	39

TABLES

Factors for converting U.S. Customary units to International System units (SI).....	(inside back cover)
--	---------------------

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR
WHICH RECORDS ARE PUBLISHED

vii

Letter after station name, designates type of data:
(d) discharge, (e) elevation, stage, or contents,
(v) tidal volume, (c) chemical, (b) biological,
(m) microbiological, (t) water temperature,
(s) sediment

Page

NORTH ATLANTIC SLOPE BASINS

PAWCATUCK RIVER BASIN

Green Fall River (head of Ashaway River):

Wyassup Brook:

Pendleton Hill Brook near Clarks Falls (d).....	41
Pawcatuck River at Westerly, R. I. (d,c,b,m,t,s).....	42

POQUONOCK RIVER BASIN

Poquonock River near Groton (e).....	54
--------------------------------------	----

THAMES RIVER BASIN

Willimantic River (head of Thames River):

Willimantic River at Merrow (c,b,m).....	55
--	----

Willimantic River near Coventry (d,c,t).....	62
--	----

Still River (head of Natchaug River):

Bungee Brook:

Safford Brook near Woodstock Valley (d).....	67
Mount Hope River near Warrenville (d).....	68
Natchaug River at Willimantic (d).....	69
Natchaug River, at U.S. Highway 6, at Willimantic (c,m). ..	70
Shetucket River (continuation of Willimantic River) near Willimantic (d).....	72
Shetucket River at South Windham (c,b,m,s).....	73
Little River near Hanover (d).....	79
Quinebaug River near Dudley, Mass. (c,t).....	80
Quinebaug River at Quinebaug (d).....	87
Quinebaug River at West Thompson (d).....	88
French River at Mechanicsville (c,m).....	89
Quinebaug River at Putnam (c,m).....	91
Muddy Brook near Woodstock (d).....	93
Quinebaug River at Pomfret Landing (c,m).....	94
Quinebaug River at Jewett City (d,c,b,m,t,s).....	96
Quinebaug River at Taftville (c,t).....	107
Yantic River at Yantic (d,c,m,s).....	110
Thames River near Mohegan (c,m).....	115
Reservoirs in Thames River basin	118

CONNECTICUT RIVER BASIN

Connecticut River at Agawam, Mass. (c,m,t).....	119
Connecticut River at Thompsonville (d,c,b,m,t,s).....	123
Scantic River at Broad Brook (c,t).....	133

NORTH ATLANTIC SLOPE BASINS--Continued

CONNECTICUT RIVER BASIN--Continued

Farmington River:	
West Branch Farmington River at Riverton (d,t)	137
Still River at Robertsville (d)	140
Still River at Riverton (c,m)	141
Hubbard River (head of East Branch Farmington River) near West Hartland (d)	143
Farmington River:	
Burlington Brook near Burlington (d,c,m)	144
Farmington River, at State Highway 4, at Unionville (c,m)	147
Farmington River at Unionville (d,c,t)	149
Pequabuck River at Forestville (d)	154
Pequabuck River at Farmington (c,m)	155
Farmington River at Avon (c,m)	157
Farmington River at Tariffville (d,c,m)	158
Farmington River, at Rainbow Fishway, at Rainbow (t)	161
Farmington River at Rainbow (d)	165
Podunk River at South Windsor (c,m)	166
Podunk River near South Windsor (d)	167
Podunk River near Burnham (d)	168
Connecticut River at Hartford (c,m,e)	169
Park River:	
South Branch Park River at Hartford (d)	172
North Branch Park River at Hartford (d)	173
Park River at Hartford (c,m)	174
Hockanum River:	
Porter Brook near Manchester (d,c,b,m)	176
Hop Brook at Manchester (d)	187
Hockanum River near East Hartford (d)	188
Hockanum River at East Hartford (c,m)	189
Coginchaug River at Rockfall (d)	191
Connecticut River at Middletown (c,m)	192
Connecticut River near Middletown (v)	194
Connecticut River at Middle Haddam (c,m,t)	198
Salmon River near East Hampton (d,c,m,t)	206
Connecticut River at East Haddam (c,m)	211
Eightmile River:	
East Branch Eightmile River near North Lyme (d)	213
Reservoirs in Connecticut River basin	214
EAST RIVER BASIN	
East River:	
Neck River near Madison (d)	216

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR
WHICH RECORDS ARE PUBLISHED

ix

Page

NORTH ATLANTIC SLOPE BASINS--Continued

QUINNIPIAC RIVER BASIN

Quinnipiac River near Meriden (c,m)	217
Quinnipiac River at Wallingford (d,c,m)	219
Quinnipiac River at North Haven (c,m)	222
Reservoirs in Quinnipiac River basin	224

MILL RIVER BASIN

Mill River near Hamden (d)	225
----------------------------------	-----

LONG ISLAND SOUND

New Haven Harbor near New Haven (c,m)	226
---	-----

HOUSATONIC RIVER BASIN

Housatonic River near Great Barrington, MA (s)	227
Housatonic River near Canaan (c,b,m)	230
Falls Village Reservoir at Falls Village (t)	237
Housatonic River at Falls Village (d,c,t,s)	238
Salmon Creek at Lime Rock (d)	245
Guinea Brook at Ellsworth (d)	246
Tenmile River near Gaylordsville (d)	247
Housatonic River at Gaylordsville (d,s)	248
Housatonic River near New Milford (c,m)	252
Still River at Brookfield Center (c,m)	254
Lake Lillinonah near Brookfield Center (c,m)	256
Shepaug River:	
East Branch Shepaug River (head of Shepaug River):	
Marshespaug River near Milton (d)	258
Shepaug River near Roxbury (c,b,m)	259
Pomperaug River:	
Nonewaug River (head of Pomperaug River)	
at Minortown (d,c,m,s)	266
Weekepeemee River at Hotchkissville (d,c,m,s)	268
Pomperaug River at Southbury (d,c,m,s)	240
Lake Zoar at Riverside (c,m)	273
Lake Zoar at Stevenson (t)	275
Housatonic River at Stevenson (d,c,b,m,t,s)	276
Naugatuck River:	
West Branch Naugatuck River at Torrington (d)	289
East Branch Naugatuck River at Torrington (d)	290
Naugatuck River near Thomaston (c,t)	291
Naugatuck River at Thomaston (d)	293
Branch Brook near Thomaston (d)	294
Hop Brook near Naugatuck (d)	295

x GAGING STATIONS, IN DOWNSTREAM ORDER, FOR
WHICH RECORDS ARE PUBLISHED

Page

NORTH ATLANTIC SLOPE BASINS--Continued

HOUSATONIC RIVER BASIN--Continued

Naugatuck River at Beacon Falls (d,c,m)	296
Naugatuck River at Ansonia (c,m)	299
Housatonic River at Stratford (c,m)	301
Reservoirs in Housatonic River basin	302

ROOSTER RIVER BASIN

Rooster River at Fairfield (d).....	304
-------------------------------------	-----

MILL RIVER BASIN

Mill River near Fairfield (d)	305
-------------------------------------	-----

SASCO BROOK BASIN

Sasco Brook near Southport (d)	306
--------------------------------------	-----

SAUGATUCK RIVER BASIN

Saugatuck River near Redding (d,c,m)	307
--	-----

NORWALK RIVER BASIN

Norwalk River at South Wilton (d).....	310
--	-----

LONG ISLAND SOUND

Stamford Hurricane Barrier at Stamford (e).	311
--	-----

RIPPOWAM RIVER BASIN

Rippowam River near Stamford (d).....	312
---------------------------------------	-----

LONG ISLAND SOUND

Stamford Harbor at Stamford (c,m)	313
---	-----

GROUND WATER STATIONS, BY COUNTY, FOR WHICH
RECORDS ARE PUBLISHED

GROUND-WATER LEVEL RECORDS

Fairfield County.....	328
Hartford County.....	330
Litchfield County.....	334
Middlesex County.....	341
New Haven County.....	341
New London County.....	352
Tolland County.....	353
Windham County.....	354

WATER RESOURCES DATA FOR CONNECTICUT, 1979

INTRODUCTION

Water resources data for the 1979 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 56 gaging stations; stage only at 1 gaging station; tidal volume at 1 gaging station; stage only records at 2 tidal-gaging stations; contents at 36 lakes and reservoirs; water quality at 50 gaging stations, 5 lakes and reservoirs, 2 harbors; 34 wells, and 1 spring; and water levels at 66 observation wells. Also included are data for 41 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.

WATER RESOURCES DATA FOR CONNECTICUT, 1979

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-79-1." 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, James F. Shugrue, succeeded by Arthur B. Powers, commissioner.

Connecticut Agricultural Experiment Station, Paul Waggoner, Director.

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

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

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.

ACKNOWLEDGEMENTS

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, E. H. Handman, J. M. Bialy, and C. H. Keune.

HYDROLOGIC CONDITIONS

At the beginning of the 1979 water year, surface-water discharges were in the normal range throughout Connecticut.

Streamflow at all four index stations (Mount Hope River near Warrenville, Salmon River near East Hampton, Burlington Brook near Burlington, and Pomperaug River at Southbury) produced below normal flow in November with normal flow in

December. Conditions during the next six months (January - June) were in the normal to above normal range with below normal flow in July. During the last two months, flows again were above normal with year end flows averaging 400 percent of median in the eastern half of the State and 220 percent in the western half of the State.

January was the month of highest runoff, due to two floods on January 21 and 25. Many streams in the State produced flood flows in the 35-50 year recurrence interval. The Salmon River near East Hampton had a flow equivalent to that of the 1938 flood, which has a recurrence interval of 100 years. New maximum daily and monthly mean discharges were reached at all four index stations, producing the highest January runoff of record.

Usable capacity of 16 municipal reservoirs of Hartford, Waterbury, Bridgeport, and Stamford was 83 percent at the beginning of the water year. It decreased to 74 percent by the end of November and then increased to 100 percent in March. It remained at 100 percent through May and ended the year at 86 percent. Usable contents were 2 percent above average at the beginning of the water year and 5 percent above average at the end of the water year.

Ground-water levels were below average from October to December but rose rapidly in January and again at the end of May, as a result of heavy rainfall. Water levels in most key wells remained above average (in the normal to high range) from January to the end of the water year, despite a seasonal decline from June to September.

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:

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

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 (lsd) 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 (ug/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 (UG/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). 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.

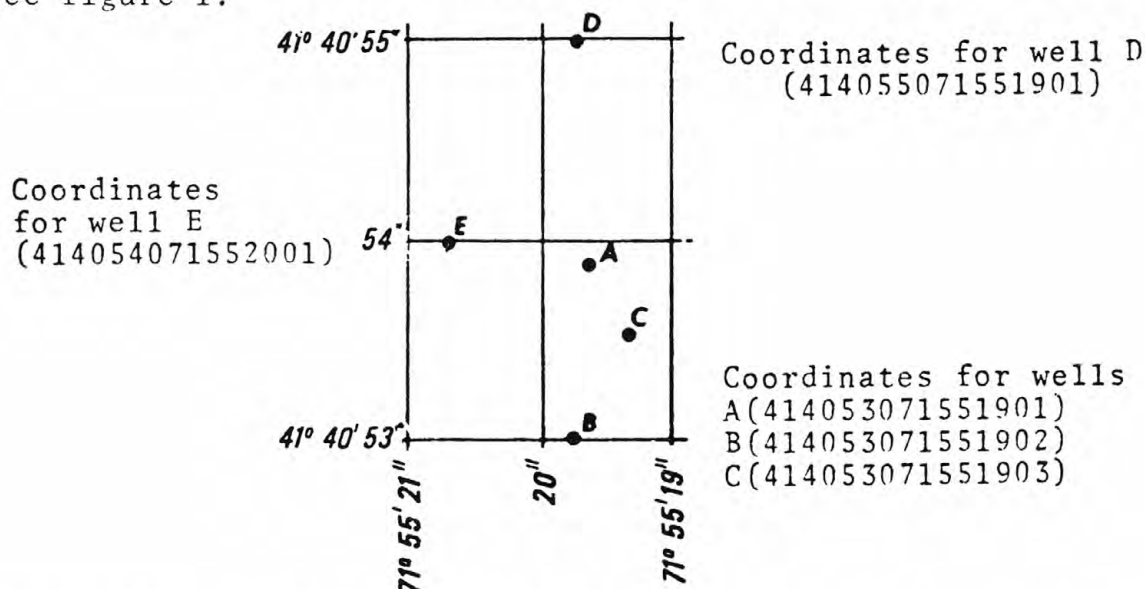


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

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. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of 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 programmed 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.

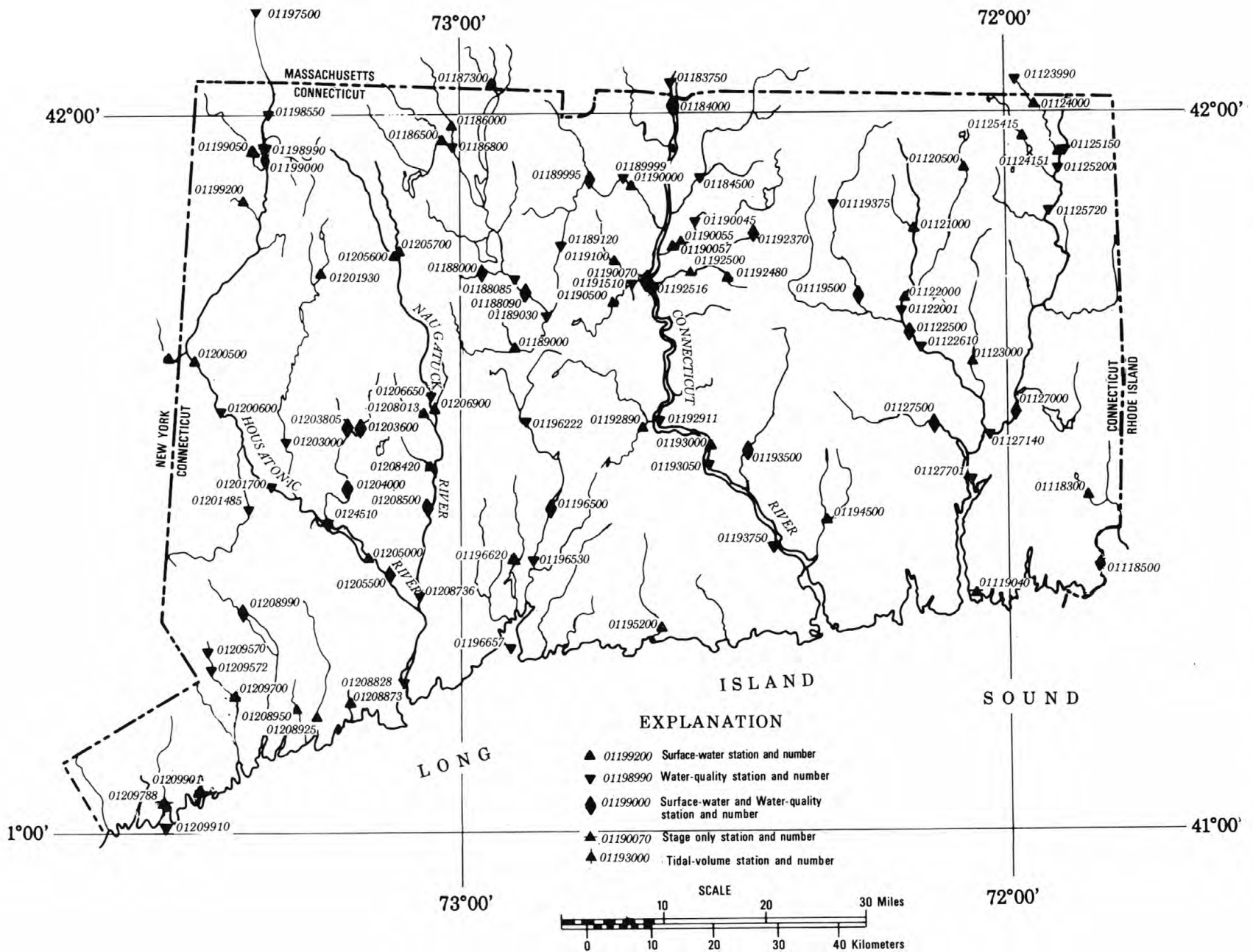


FIGURE 2--LOCATION OF GAGING STATIONS

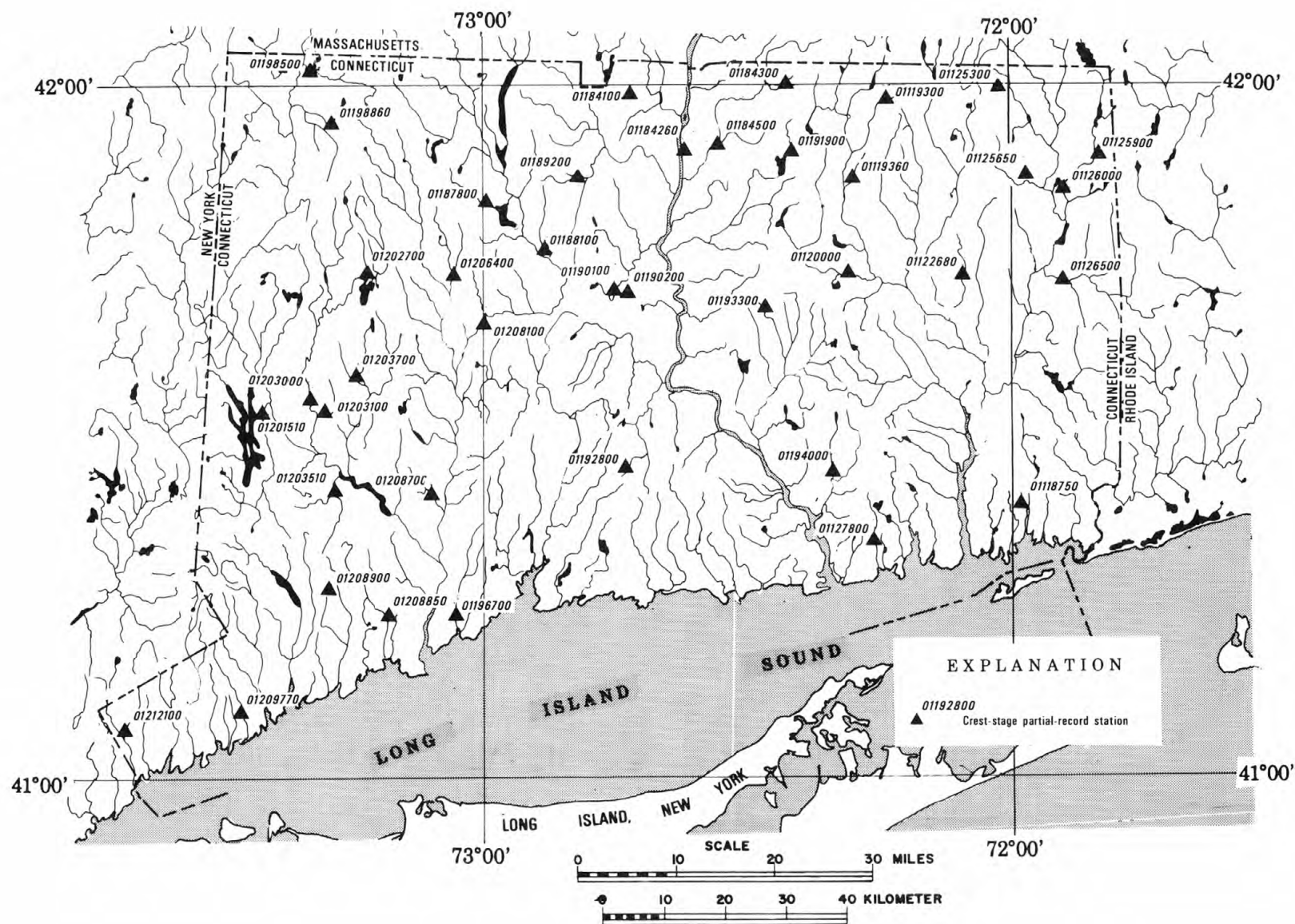


FIGURE 3--LOCATION OF PARTIAL-RECORD STATIONS

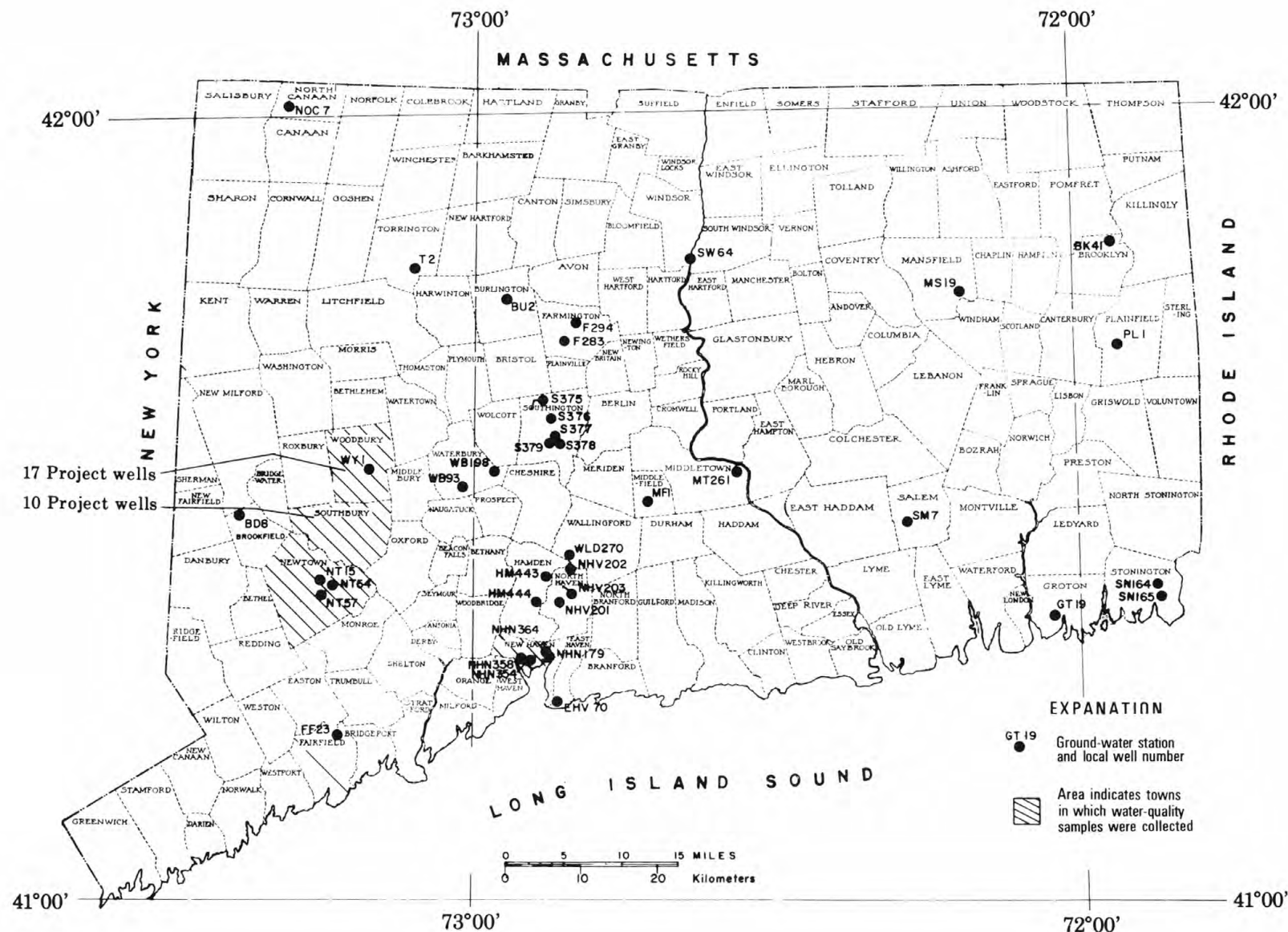


FIGURE 4-- LOCATION OF OBSERVATION WELLS AND GROUND WATER QUALITY SAMPLING AREAS

GAGING STATION RECORDS

41

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.--21 years, 8.58 ft³/s (0.243 m³/s), 28.98 in/yr (736 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, 0.02 ft³/s (0.001 m³/s) Sept. 7-11, 1964, Sept. 12, 13, 1965.

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)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 3	0200	93 2.63	3.33 1.015	Jan. 25	0530	290 8.21	5.20 1.585
Jan. 8	1230	188 5.32	4.41 1.344	Mar. 7	0700	97 2.75	3.38 1.030
Jan. 14	0530	85 2.41	3.21 .978	May 24	0130	414 11.7	6.02 1.835
Jan. 21	1330	*492 13.9	*6.41 1.954				

Minimum discharge, 0.20 ft³/s (0.006 m³/s) July 31, gage height, 0.77 ft (0.235 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	1.8	7.3	9.4	17	22	7.0	13	14	2.4	.25	5.0
2	.99	1.6	5.6	31	14	20	8.2	12	12	2.2	.24	4.0
3	.80	1.5	4.7	64	13	18	15	11	11	1.7	.24	2.5
4	.70	1.4	8.6	30	12	17	12	14	15	1.3	14	2.0
5	1.1	1.4	11	21	10	16	12	12	18	1.4	5.4	1.4
6	1.5	1.4	7.7	17	8.5	22	9.8	11	15	1.2	2.4	2.4
7	1.4	1.3	6.3	17	7.3	70	8.2	9.6	12	1.0	1.4	2.9
8	.99	1.3	6.0	107	7.0	37	7.4	8.8	10	.89	2.7	2.0
9	.86	1.2	18	58	6.8	26	9.7	8.3	8.7	.80	1.7	1.5
10	.75	1.1	23	32	6.7	21	13	7.8	7.6	.75	2.0	1.1
11	.75	1.1	15	23	6.5	20	9.7	7.1	6.9	.72	3.1	.99
12	.75	1.1	11	18	6.4	18	8.3	6.8	6.7	.68	9.2	.86
13	.92	1.1	9.4	22	6.2	16	7.6	13	5.8	.61	14	.75
14	3.1	1.1	8.6	66	6.1	16	11	18	5.1	.54	7.8	.92
15	4.1	1.1	7.5	35	6.0	17	14	22	4.5	.52	4.8	2.0
16	2.5	1.1	7.1	25	6.0	14	12	16	4.1	.58	2.9	1.4
17	1.9	1.1	8.2	18	6.0	12	11	12	3.7	.55	1.8	1.0
18	1.7	9.1	7.3	17	6.0	11	9.5	10	3.7	.50	1.9	.86
19	1.5	7.3	6.2	17	6.0	11	8.5	9.3	3.5	.46	3.8	.92
20	1.7	5.1	5.6	13	6.0	10	7.9	13	2.8	.40	2.9	.92
21	1.5	3.7	12	150	6.0	9.6	7.4	12	2.5	.37	2.1	.99
22	1.4	3.1	10	94	11	9.1	7.1	9.9	2.4	.37	1.7	13
23	1.3	2.7	8.0	41	8.1	8.7	6.8	39	2.3	.34	1.5	7.7
24	1.7	5.3	6.9	33	40	8.4	6.5	165	2.0	.31	1.4	4.4
25	1.9	4.9	16	176	43	10	6.3	88	1.8	.31	2.0	3.1
26	1.9	3.4	14	68	32	9.4	6.4	52	1.6	.30	5.0	2.5
27	5.3	2.7	10	44	27	8.2	39	33	1.5	.38	6.1	2.2
28	3.9	3.9	9.1	34	24	7.5	39	27	1.5	.36	8.0	1.9
29	3.2	4.1	6.9	28	---	7.4	24	23	1.4	.30	5.0	1.9
30	2.5	9.4	6.3	24	---	7.3	17	20	1.4	.28	4.5	2.9
31	2.0	---	6.7	20	---	7.2	---	17	---	.25	7.0	---
TOTAL	55.05	86.4	290.0	1352.4	354.6	506.8	361.3	720.6	188.5	22.77	126.83	76.01
MEAN	1.78	2.88	9.35	43.6	12.7	16.3	12.0	23.2	6.28	.73	4.09	2.53
MAX	5.3	9.4	23	176	43	70	39	165	18	2.4	14	13
MIN	.44	1.1	4.7	9.4	6.0	7.2	6.3	6.8	1.4	.25	.24	.75
CFSM	.44	.72	2.33	10.8	3.16	4.06	2.99	5.77	1.56	.18	1.02	.63
IN.	.51	.80	2.68	12.51	3.28	4.69	3.34	6.67	1.74	.21	1.17	.70
CAL YR 1978 TOTAL	2833.17			MEAN 7.76	MAX 150	MIN .24	CFSM 1.93	IN 26.21				
WTR YR 1979 TOTAL	4141.26			MEAN 11.3	MAX 176	MIN .24	CFSM 2.81	IN 38.31				

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 good. Diurnal fluctuation at low flow prior to 1962 by mills upstream; regulation much greater prior to 1958. Diversion upstream for municipal supply of Westerly. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years (water years 1942-79), 575 ft³/s (16.28 m³/s), 26.47 in/yr (672 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, 4,010 ft³/s (114 m³/s) Jan. 25, gage height, 9.51 ft (2.899 m); minimum daily, 155 ft³/s (4.39 m³/s) Oct. 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	178	407	550	1930	2330	700	1180	1450	289	182	283
2	167	178	388	805	1710	2050	685	1020	1280	304	178	273
3	167	178	359	1670	1500	1820	783	888	1130	294	178	268
4	171	174	371	1770	1390	1620	873	865	1090	278	244	268
5	171	174	466	1630	1280	1450	880	858	1180	268	501	263
6	186	174	487	1430	1050	1390	858	805	1170	254	775	278
7	199	174	459	1250	1100	2030	783	738	1070	244	564	331
8	191	174	407	1710	1010	2370	730	693	948	235	376	336
9	178	174	536	2350	933	2240	715	655	850	225	325	315
10	174	171	948	2210	805	2030	790	641	768	216	289	294
11	171	174	933	1970	790	1840	813	606	708	212	299	273
12	167	178	783	1690	760	1650	768	578	655	203	359	268
13	163	178	670	1510	730	1480	730	641	620	203	529	263
14	163	171	585	1930	648	1320	723	933	585	199	634	259
15	191	174	536	2130	634	1330	865	1230	529	199	571	268
16	191	174	501	1980	627	1250	903	1260	487	195	452	273
17	182	178	480	1800	599	1160	865	1160	459	191	365	278
18	174	221	459	1610	592	1090	813	1010	426	191	309	268
19	171	299	407	1300	564	1030	753	895	459	186	309	263
20	163	299	382	1320	557	970	708	850	445	182	315	249
21	159	268	480	2270	571	925	670	850	420	182	304	244
22	155	254	564	3620	700	880	648	805	388	178	331	473
23	155	249	543	3280	738	843	620	805	359	174	299	700
24	155	263	480	3060	1100	813	606	2160	342	174	283	685
25	155	299	641	3680	1760	813	585	2840	325	171	273	543
26	159	289	813	3770	2270	835	571	2940	309	167	273	432
27	171	278	775	3570	2820	805	805	2730	299	203	268	365
28	191	283	648	3290	2620	775	1370	2410	294	216	268	331
29	199	299	543	2890	---	738	1450	2140	289	199	273	309
30	191	348	543	2470	---	715	1350	1860	278	186	278	309
31	178	---	508	2180	---	708	---	1650	---	186	283	---
TOTAL	5375	6625	17102	66695	31788	41300	24413	38696	19612	6604	10887	9962
MEAN	173	221	552	2151	1135	1332	814	1248	654	213	351	332
MAX	199	348	948	3770	2820	2370	1450	2940	1450	304	775	700
MIN	155	171	359	550	557	708	571	578	278	167	178	244
CFSM	.59	.75	1.87	7.29	3.85	4.52	2.76	4.23	2.22	.72	1.19	1.13
IN.	.68	.84	2.16	8.41	4.01	5.21	3.08	4.88	2.47	.83	1.37	1.26
CAL YR 1978	TOTAL	241952	MEAN 663	MAX 3860	MIN 141	CFSM 2.25	IN 30.51					
WTR YR 1979	TOTAL	279059	MEAN 765	MAX 3770	MIN 155	CFSM 2.59	IN 35.19					

PAWCATUCK RIVER BASIN

43

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, 145 micromhos November 15, 1978; minimum, 36 micromhos May 24, 1979.

WATER TEMPERATURES: Maximum, 28.0°C July 30, 1979; minimum, 0.0°C on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 145 micromhos November 15; minimum, 36 micromhos May 24.

WATER TEMPERATURES: Maximum, 28.0°C July 30; minimum, 0.0°C on many days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- ATION (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	C.O.D., TOTAL IN BOTTOM MA- TERIAL (MG/KG)
OCT												
19...	1300	154	122	6.5	16.0	11.0	50	2.0	11.2	101	--	--
24...	0905	155	105	--	--	10.5	--	--	--	--	--	--
NOV												
04...	1500	174	106	6.2	4.0	10.0	55	6.0	10.3	91	14	33000
14...	1055	171	125	6.2	15.0	4.0	55	1.0	11.3	95	--	--
29...	1250	249	92	--	--	2.5	--	--	--	--	--	--
DEC												
13...	1320	641	4	6.4	4.0	1.0	100	1.0	14.1	99	--	--
14...	1030	730	78	6.1	5.5	2.0	85	--	12.7	92	--	96000
JAN												
10...	0830	2240	64	5.7	-5.5	1.0	--	2.0	12.4	87	--	--
10...	1420	2140	76	6.7	-1.0	.5	45	1.0	13.1	91	--	--
FEB												
15...	1100	627	85	6.0	-5.0	.0	30	1.0	13.6	93	--	--
16...	0900	643	87	5.6	-11.0	.5	--	1.0	15.2	105	--	--
MAR												
09...	1105	2240	58	6.0	11.0	6.0	50	1.0	11.4	92	--	--
14...	0900	1460	58	5.8	10.0	4.0	40	1.0	12.7	97	--	3600
30...	0445	715	75	--	--	8.0	--	--	--	--	--	--
APR												
04...	0930	873	72	6.1	8.0	8.0	--	1.0	12.0	101	--	--
11...	1330	805	80	6.6	13.0	8.0	40	2.0	11.8	99	--	--
MAY												
03...	0815	933	67	6.6	17.0	15.0	--	1.0	9.0	89	--	--
08...	1045	685	72	6.4	20.5	16.0	50	1.0	8.9	90	--	--
23...	0405	768	70	--	--	16.5	--	--	--	--	--	--
JUN												
06...	0815	1340	59	6.3	20.0	17.2	50	1.0	8.8	90	36	12000
13...	1235	613	72	6.4	20.5	19.5	5	2.0	8.6	92	--	--
JUL												
11...	0800	212	83	6.2	24.5	19.5	--	1.0	9.7	105	--	--
18...	1220	191	80	6.1	25.5	25.0	40	1.0	9.4	112	--	--
19...	1005	146	92	--	--	24.5	--	--	--	--	--	--
AUG												
08...	0930	376	88	6.5	28.5	23.0	120	2.0	7.4	85	--	--
29...	0740	268	--	--	--	22.0	--	--	--	--	--	--
SEP												
19...	1015	263	94	6.9	23.5	20.0	--	1.0	8.0	87	20	--

< 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 1978 TO SEPTEMBER 1979

DATE	OXYGEN DEMAND, FIVE- DAY (MG/L)	CODIT- FORM, TOTAL IMMEDI- ATE (COLS./ 100 ML)	CODIT- FORM, FECAL, IMMEDI- ATE (COLS./ 100 ML)	CODIT- FORM, FECAL, IMMEDI- ATE (COLS./ 100 ML)	STREPTO- TOCOCCT FECAL (COLS./ 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DISE- SOLVED (MG/L AS CA)	MAGNE- SIUM, DISE- SOLVED (MG/L AS MG)	SODIUM, DISE- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
OCT												
19...	--	5400	--	27	33	19	3	5.1	1.5	14	59	1.4
24...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
08...	--	74	34	--	380	19	--	5.2	1.5	12	55	1.2
14...	--	5700	--	64	120	22	7	6.1	1.6	15	58	1.4
24...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
13...	--	3400	--	150	120	16	5	3.6	1.7	12	60	1.3
14...	--	--	--	--	--	13	3	3.3	1.1	8.8	58	1.1
JAN												
10...	--	4400	42	--	310	--	--	--	--	--	--	--
10...	1.6	920	--	35	120	15	7	3.0	1.9	7.4	49	.8
FEB												
15...	--	220	--	44	84	15	8	3.9	1.2	9.1	55	1.0
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	--	440	--	45	812	10	5	2.6	.8	6.1	56	.8
14...	1.6	140	82	--	82	11	6	3.0	.9	6.6	55	.9
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	10000	--	320	200	13	5	3.4	1.1	8.7	57	1.1
MAY												
03...	1.1	240	74	--	25	--	--	--	--	--	--	--
04...	--	5600	--	220	84	13	7	3.4	1.0	8.0	56	1.0
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	12	5	3.2	.9	6.3	52	.8
13...	--	10000	--	150	120	14	0	3.7	1.2	10	59	1.2
JUL												
11...	2.0	130	80	--	120	--	--	--	--	--	--	--
14...	--	16000	--	320	220	19	7	5.1	1.4	9.9	52	1.0
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	22000	--	110	170	14	3	4.0	1.0	12	63	1.4
27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
19...	1.1	1400	--	58	815	17	5	4.5	1.4	12	67	1.3
DATE	SODIUM+ POTAS- SIUM DISE- SOLVED (MG/L AS NA)	POTAS- SIUM, DISE- SOLVED (MG/L AS K)	ALKA- LINITY AS CAC03)	CARBON DIOXIDE DISE- SOLVED (MG/L AS CO2)	SULFATE DISE- SOLVED (MG/L AS SO4)	CHLO- RIDE, DISE- SOLVED (MG/L AS CL)	FLUO- RIDE, DISE- SOLVED (MG/L AS F)	SILICA, DISE- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DISE- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DISE- SOLVED (MG/L)	SOLIDS, DISE- SOLVED (TONS PER AC-FT)	SOLIDS, DISE- SOLVED (TONS PER DAY)
OCT												
19...	--	1.7	16	--	14	15	.1	7.9	81	69	.11	34.8
NOV												
08...	--	1.6	13	--	13	14	--	--	--	--	--	--
14...	--	1.6	15	--	15	15	.2	8.5	81	72	.11	37.4
DEC												
13...	--	1.2	11	--	11	11	.1	8.5	71	56	.10	123
14...	--	1.0	10	--	11	11	--	--	--	--	--	--
JAN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	1.0	8	--	8.7	9.0	.1	5.9	52	42	.07	307
FEB												
15...	--	1.0	7	--	11	13	.1	8.6	60	52	.08	102
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	--	.6	5	--	9.9	8.3	.1	5.6	46	37	.06	278
14...	--	.6	5	--	8.9	9.1	--	--	--	--	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	.9	8	--	9.8	12	.1	5.0	55	46	.07	120
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	.9	6	--	9.4	11	.1	3.4	60	41	.08	111
JUN												
06...	--	.9	7	--	8.4	9.6	--	--	--	--	--	--
13...	--	.9	15	--	9.5	12	.1	6.0	65	52	.09	108
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
18...	11	.8	12	19	11	14	.1	5.6	73	55	.10	37.6
AUG												
08...	13	.9	11	6.8	14	11	.1	7.5	82	58	.11	83.2
SEP												
19...	13	1.1	12	2.9	12	12	.2	--	68	54	.09	48.3

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

PAWCATUCK RIVER BASIN

45

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEO (MG/L)	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 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,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)
OCT 19...	--	80	--	--	.37	--	.01	--	.50	.51	.04	.47
NOV 08...	0	83	.65	.01	.66	--	.06	--	.24	.30	--	--
14...	--	88	--	--	.73	--	.05	--	.46	.51	.16	.35
DEC 13...	--	69	--	--	.20	--	.04	--	.32	.36	.00	.42
14...	0	72	.21	.01	.22	--	.04	--	.23	.27	--	--
JAN 10...	--	--	.16	.00	.16	--	.01	--	.01	.02	--	--
10...	--	60	--	--	.15	--	.01	--	.16	.17	.01	.16
FEB 15...	--	68	--	--	.43	--	.02	--	.31	.33	.02	.31
16...	--	--	.49	.02	.51	--	.01	--	.19	.20	--	--
MAR 09...	--	51	--	--	.17	--	.01	--	.27	.28	.06	.22
14...	4	46	.24	.00	.24	--	.01	--	.11	.12	--	--
APR 04...	--	--	.31	.00	.31	--	.04	--	.21	.25	--	--
11...	--	57	--	--	.29	--	.04	--	.30	.34	.12	.22
MAY 03...	--	--	.15	.01	.16	--	.05	.06	.30	.35	--	--
08...	--	60	--	--	.22	--	.05	.06	.53	.58	.08	.50
JUN 06...	58	62	.20	.01	.21	--	.05	.06	.41	.46	--	--
13...	--	66	--	--	.28	--	.07	--	.42	.49	.02	.47
JUL 11...	--	--	.58	.01	.59	--	.01	.01	.21	.22	--	--
18...	--	75	--	--	.50	--	.03	.04	.43	.46	.18	.28
AUG 08...	--	100	.16	.01	.17	--	.10	.12	.56	.66	.00	.68
SEP 19...	--	77	--	--	.58	.69	.05	.06	.56	.61	.14	.47

DATE	NITRO- GEN, DIS- SOLVED (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 PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)
OCT 19...	--	.88	3.9	.04	--	.04	--	--	--	--	--	--
NOV 08...	--	.96	4.3	.06	--	--	.04	--	1600	0	--	0
14...	--	1.2	5.5	.08	--	.07	--	--	--	--	--	--
DEC 13...	--	.56	2.5	.04	--	.03	--	--	--	1	1	--
14...	--	.49	2.2	.03	--	--	.02	--	--	--	--	--
JAN 10...	--	.18	.80	.03	--	--	.01	--	--	--	--	--
10...	--	.32	1.4	.03	--	.01	--	--	--	--	--	--
FEB 15...	--	.76	3.4	.02	--	.01	--	--	--	--	--	--
16...	--	.71	3.1	.03	--	--	.09	--	--	--	--	--
MAR 09...	--	.45	2.0	.02	--	.02	--	--	--	2	1	--
14...	--	.36	1.6	.01	--	--	.00	40	1300	1	--	0
APR 04...	--	.56	2.5	.03	--	--	.01	--	--	--	--	--
11...	--	.63	2.8	.02	--	.03	--	--	--	--	--	--
MAY 03...	--	.51	2.3	.05	.15	--	.02	--	--	--	--	--
08...	--	.80	3.5	.02	.06	.02	--	--	--	2	1	--
JUN 06...	--	.67	3.0	.04	.12	--	.00	--	--	--	--	--
13...	--	.77	3.4	.05	.15	.03	--	--	--	--	--	--
JUL 11...	--	.81	3.6	.03	.09	--	.02	--	--	--	--	--
18...	--	.96	4.3	.04	.12	.03	--	--	--	--	--	--
AUG 08...	--	.83	3.7	.07	.21	.06	.05	--	--	1	1	--
SEP 19...	1.2	1.2	5.3	.06	.18	.05	--	--	--	--	--	--

PAWCATUCK RIVER BASIN

0118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BARIUM, FM BOT- TOM MA- TERIAL (UG/G AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, FM BOT- TOM MA- TERIAL (UG/G)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	0	--	--	0	0	<10	40	--	--	--	<10	30
14...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	0	0	0	--	--	--	--	2	0	2	--	<10
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 09...	0	0	0	--	--	--	--	0	0	1	--	20
14...	0	--	--	20	0	0	20	--	--	--	<10	10
APR 04...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--	--	--
08...	0	0	0	--	--	--	--	1	0	1	--	20
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	20	0	20	--	--	--	--	2	0	2	--	20
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, FM BOT- TOM MA- TERIAL (UG/G)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COPPER, 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, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 19...	--	--	--	--	--	--	--	--	4	--	--
NOV 08...	--	--	<10	0	--	--	<10	8	--	20	330
14...	--	--	--	--	--	--	--	--	3	--	--
DEC 13...	<9	1	--	0	0	0	--	2	0	2	480
JAN 10...	--	--	--	--	--	--	--	--	3	--	--
10...	--	--	--	--	--	--	--	--	3	--	--
FEB 15...	--	--	--	--	--	--	--	--	2	--	--
MAR 09...	20	0	--	1	0	3	--	3	0	3	230
14...	--	--	10	0	--	--	<10	--	--	<10	130
APR 04...	--	--	--	--	--	--	--	--	2	--	--
11...	--	--	--	--	--	--	--	--	2	--	--
MAY 08...	10	10	--	0	0	0	--	4	1	3	530
JUN 06...	--	--	--	--	--	--	--	--	3	--	--
13...	--	--	--	--	--	--	--	--	3	--	--
JUL 11...	--	--	--	--	--	--	--	--	7	--	--
18...	--	--	--	--	--	--	--	--	7	--	--
AUG 08...	10	10	--	1	1	0	--	8	2	6	900
SEP 19...	--	--	--	--	--	--	--	--	2	--	--

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

PAWCATUCK RIVER BASIN

47

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	IRON, SUS- PENDE REC OV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL REC OV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE REC OV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL REC OV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL REC OV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE REC OV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	3100	34	--	--	480	0	10	--	--	280
14...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	230	250	--	4	0	4	--	--	50	0	50	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 09...	60	170	--	6	2	4	--	--	50	0	50	--
14...	--	--	1900	14	--	--	<10	0	40	--	--	70
APR 11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	230	300	--	5	0	5	--	--	40	0	40	--
JUN 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	320	580	--	10	7	3	--	--	110	10	100	--
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--
DATE	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)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	MOLYB- DENUM, TOTAL REC OV- ERABLE (UG/L AS MO)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	NICKEL, TOTAL REC OV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	<.5	--	--	.51	--	<10	14	<10	0	--	--	0
14...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	<.5	.0	<.5	--	--	--	--	--	0	0	0	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 09...	<.5	.0	<.5	--	--	--	--	--	0	0	0	--
14...	<.5	--	--	.00	1	0	1	<10	0	--	--	0
APR 11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	<.5	.0	<.5	--	--	--	--	--	0	0	0	--
JUN 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	<.5	.0	<.5	--	--	--	--	--	0	0	0	--
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--

< 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 1978 TO SEPTEMBER 1979

DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	SILVER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED 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)
OCT 19...	--	--	--	--	--	--	--	--	10	--	5.8	--
NOV 08...	--	--	--	<10	90	20	50	--	--	30	--	--
DEC 14...	--	--	--	--	--	--	--	--	0	--	6.2	--
DEC 13...	0	0	0	--	--	--	10	10	0	--	13	13
DEC 14...	--	--	--	--	--	--	--	--	--	--	8.7	--
JAN 10...	--	--	--	--	--	--	--	--	10	--	8.5	--
FEB 15...	--	--	--	--	--	--	--	--	30	--	4.6	--
MAR 09...	0	0	0	--	--	--	20	0	20	--	7.7	7.2
MAR 14...	0	--	--	<10	70	10	50	--	--	10	5.9	--
APR 11...	--	--	--	--	--	--	--	--	10	--	5.3	--
MAY 08...	0	0	0	--	--	--	20	10	10	--	7.7	7.4
JUN 06...	--	--	--	--	--	--	--	--	--	--	7.4	--
JUN 13...	--	--	--	--	--	--	--	--	5	--	7.9	--
JUL 12...	--	--	--	--	--	--	--	--	7	--	5.0	--
AUG 08...	0	0	0	--	--	--	20	0	20	--	11	11
SEP 19...	--	--	--	--	--	--	--	--	20	--	4.7	--
DATE	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (UG/L)	PCB, 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)
OCT 19...	--	--	.00	--	--	--	--	--	--	--	--	--
NOV 08...	--	0	.00	0	.0	0	.00	.0	.0	0	.00	.0
DEC 13...	.6	--	.00	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	0	--	--	--	--	--	--	--	--
MAR 09...	.5	--	.00	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	1	--	--	--	--	--	--	--	--
MAY 08...	.3	--	.00	--	--	--	--	--	--	--	--	--
JUN 06...	--	0	--	0	--	--	--	--	--	--	--	--
AUG 08...	.5	--	.00	--	--	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	.0	0	.00	.0	.0	0	.00	5.4
DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	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)	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)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	.00	.7	.00	.3	.00	.0	.00	.00	.0	.00	.0	.00

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

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL (UG/KG)	METH- OXY- CHLOR. TOT. IN BOTTOM MATL. (UG/L)	METH- OXY- CHLOR. TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 08...	.0	.00	.0	--	.0	--	.00
DEC 13...	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--
AUG 08...	--	--	--	--	--	--	--
SEP 19...	.0	.00	.0	.00	.0	.00	.00

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	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 08...	.00	0	0	--	--	--
DEC 13...	--	--	--	360	.000	.000
MAR 09...	--	--	--	140	.000	.000
MAY 08...	--	--	--	1100	.000	.000
JUL 18...	--	--	--	930	--	--
AUG 08...	--	--	--	860	1.29	.000
SEP 19...	.00	0	0	17000	--	--

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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
OCT 19...	1300	159	3	1.3	100	APR 04...	0830	873	--	--	--
NOV 24...	0905	155	--	--	--	MAY 11...	1330	805	8	17	100
NOV 02...	1500	178	--	--	--	MAY 03...	0815	933	--	--	--
NOV 14...	1055	171	5	2.3	100	MAY 08...	1045	685	14	26	75
NOV 29...	1250	244	--	--	--	MAY 23...	0805	768	--	--	--
DEC 13...	1320	641	52	0.6	11	JUN 06...	0815	1340	--	--	--
DEC 14...	1030	730	--	--	--	JUN 13...	1235	613	24	40	56
JAN 10...	0930	2240	--	--	--	JUL 11...	0800	212	--	--	--
JAN 10...	1420	2140	8	47	100	JUL 18...	1220	191	5	2.6	50
FEB 15...	1100	627	4	6.8	100	JUL 19...	1005	186	--	--	--
FEB 18...	0800	653	--	--	--	AUG 08...	0930	376	6	6.1	93
MAR 05...	1105	2240	13	79	96	AUG 29...	0740	268	--	--	--
MAR 14...	0900	1460	--	--	--	SEP 19...	1015	263	2	1.4	100
MAR 30...	0845	715	--	--	--						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PERIPHYTON

(sampling method - Polyethylene strip)

Dates of Exposure	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)
September 13 to October 19	37	1.10	.551	7.43	4.55

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	DEC 13.78 1320	MAR 9.79 1105	MAY 8.79 1045	JUL 18.79 1220	AUG 8.79 0930	SEP 19.79 1015						
TOTAL CELLS/ML	360	140	1100	930	860	17000						
DIVERSITY: DIVISION	1.3	1.0	1.3	1.3	1.1	1.0						
..CLASS	1.3	1.0	1.3	1.3	1.1	1.0						
..ORDER	1.3	1.0	2.1	2.0	2.0	1.2						
...FAMILY	2.5	1.7	2.6	3.0	2.2	1.5						
....GENUS	3.3	1.7	0.0	3.2	2.2	2.0						
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT		
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	43	4	170#	18	52	6	86	1
....DICTYOSPHAERIUM	--	-	--	-	58	5	--	-	--	-	1400	8
....KIRCHNERIELLA	--	-	--	-	--	-	28	3	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	28	3	--	-	340	2
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	170	1
....TREPHARIA	--	-	--	-	--	-	--	-	--	-	86	1
....SCENEDESMACEAE												
....ACTINASTRUM	14	4	--	-	14	1	--	-	--	-	--	-
....CRUCIGENIA	55#	15	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	55#	15	--	-	350#	31	110	12	150#	18	860	5
..TRASPORALES												
...PALMELLACEAE												
....GLOEOCYSTIS	--	-	--	-	14	1	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	140	13	--	-	390#	45	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE	--	-	--	-	72	6	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	58#	40	--	-	110	12	26	3	--	-
...VOLVOCAEEAE												
....PANDORINA	--	-	--	-	--	-	170#	18	--	-	--	-
CHRYSTOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
...COSCINODISCAEEAE												
....CYCLOTELLA	--	-	--	-	14	1	--	-	13	1	11000#	64
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	1500	9
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	28	8	14	10	14	1	28	3	--	-	86	1
....COCCONFIS	14	4	--	-	--	-	--	-	--	-	--	-
...CYMHELLACEAE												
....CYMBELLA	--	-	--	-	--	-	14	1	--	-	--	-
...EUNOTIACEAE												
....EUNOTIA	42	12	--	-	--	-	14	1	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	43	4	--	-	--	-	--	-
....SYNEDRA	--	-	14	10	230#	21	--	-	--	-	260	2
...GOMPHONEMATAACEAE												
....GOMPHONEMA	42	12	--	-	--	-	14	1	--	-	--	-
...MERIDIONACEAE												
....MERIDION	--	-	58#	40	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....NAVICULA	55#	15	--	-	14	1	56	6	--	-	170	1
...PINNULARIA	14	4	--	-	--	-	--	-	--	-	--	-
...NITZSCHIAEEAE												
....NITZSCHIA	14	4	--	-	--	-	14	1	13	1	170	1
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
....CRYPTOMONADACEAE												
....CRYPTOMONAS	28	8	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
....CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	100	9	--	-	190#	22	940	6
...HORMOGONALES												
...OSCILLATOPIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	170#	18	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	26	3	--	-
....TRACHELOMONAS	--	-	--	-	--	-	14	1	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
....PERIDINIACEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-	86	1

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

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

PAWCATUCK RIVER BASIN

51

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1				---	---	---						
2				---	---	---						
3				---	---	---						
4				---	---	---						
5				---	---	---						
6				---	---	---						
7				---	---	---						
8				---	---	---						
9				---	---	---						
10				---	---	---						
11				---	---	---						
12				---	---	---						
13				---	---	---						
14				127	125	126						
15				145	128	135						
16				142	137	139						
17				141	132	139						
18				136	118	128						
19				143	138	141						
20				139	125	130						
21				130	124	128						
22				125	122	123						
23				129	125	128						
24				128	121	123						
25				125	123	124						
26				---	---	---						
27				---	---	---						
28				---	---	---						
29				---	---	---						
30				---	---	---						
31				---	---	---						
MONTH				145	118	130						
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	84	82	83	69	62	66
2	62	59	61	---	---	---	83	81	83	71	66	68
3	65	58	62	---	---	---	82	72	77	72	69	71
4	65	62	63	---	---	---	81	73	78	71	69	70
5	70	63	65	---	---	---	81	78	80	73	66	69
6	84	73	76	---	---	---	81	78	79	73	69	71
7	74	55	65	---	---	---	82	80	81	74	70	72
8	72	62	68	---	---	---	83	80	82	76	70	73
9	76	54	65	59	57	58	83	80	82	77	74	75
10	88	66	76	56	52	54	80	74	76	78	76	77
11	85	66	74	56	52	54	82	75	79	81	77	78
12	80	70	75	58	55	57	83	78	81	80	78	79
13	84	70	76	63	59	61	83	80	82	80	73	77
14	91	66	79	64	62	63	83	80	82	72	60	64
15	85	55	71	65	64	64	81	69	73	61	55	58
16	30	54	77	69	64	66	73	70	72	61	55	58
17	98	84	93	72	69	70	76	72	74	68	61	64
18	97	77	90	73	69	70	77	73	76	69	66	67
19	87	77	82	73	69	72	80	76	78	70	68	69
20	96	75	85	75	73	74	82	78	80	69	64	67
21	97	81	88	75	73	74	83	79	81	67	64	65
22	96	74	83	78	74	76	82	81	81	71	65	67
23	92	78	87	80	76	78	83	79	81	70	64	69
24	---	---	---	79	76	78	84	80	82	64	36	44
25	---	---	---	79	76	78	86	83	84	50	37	43
26	---	---	---	77	74	75	87	84	86	47	42	45
27	---	---	---	81	76	79	86	73	82	41	40	41
28	---	---	---	81	79	80	69	61	63	42	40	41
29	---	---	---	81	80	80	60	58	58	46	42	44
30	---	---	---	84	81	82	65	57	61	49	46	47
31	---	---	---	86	82	84	---	---	---	52	49	50
MONTH	98	54	76	86	52	71	87	57	78	81	36	63

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	56	52	54	78	77	77	108	104	106	100	97	98
2	59	55	57	77	75	76	113	107	109	100	95	98
3	59	58	59	76	74	75	118	114	117	95	89	92
4	59	57	59	76	74	75	120	116	118	89	86	88
5	58	55	57	74	72	73	124	79	104	85	82	83
6	60	57	58	74	73	73	76	55	60	87	81	83
7	63	59	61	74	72	73	86	60	73	104	88	96
8	65	63	64	74	73	73	92	79	85	104	98	101
9	67	65	66	74	72	73	80	78	79	99	96	98
10	69	67	68	74	72	73	86	79	82	98	91	95
11	71	69	70	76	72	73	94	86	88	90	87	89
12	71	70	70	82	75	76	102	93	98	89	86	87
13	75	68	72	84	79	81	102	87	96	97	89	93
14	74	72	74	84	80	82	83	63	68	104	97	101
15	76	73	74	86	83	84	72	66	69	106	103	104
16	77	75	76	86	84	85	73	71	72	109	105	107
17	78	76	77	84	81	82	74	70	71	107	98	102
18	78	76	77	82	79	80	75	72	73	97	94	95
19	83	76	78	86	82	83	82	75	78	98	94	96
20	83	82	82	91	86	88	82	79	80	98	93	95
21	83	80	81	94	91	92	79	77	78	105	97	100
22	80	78	79	98	94	96	83	79	81	127	97	107
23	81	78	80	98	96	97	86	83	85	120	88	109
24	82	80	81	97	92	94	89	87	88	105	83	92
25	80	78	79	94	91	93	99	89	90	86	78	82
26	80	77	78	92	89	91	94	90	91	79	77	78
27	78	76	78	103	89	97	94	90	92	82	78	80
28	79	76	78	142	104	123	90	86	87	86	82	84
29	79	77	78	142	130	137	92	86	89	91	86	89
30	79	78	78	129	116	122	95	92	93	93	91	92
31	---	---	---	115	107	110	98	95	96	---	---	---
MONTH	83	52	71	142	72	87	124	55	87	127	77	94

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

PAWCATUCK RIVER BASIN

53

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

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

POQUONOCK RIVER BASIN

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. No gage-height record Jan. 22 to Mar. 2 and Mar. 20 to Apr. 3.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979													
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	3.05	3.10	4.74	3.02	-	2.03	2.87	2.51	2.60	2.46	2.66	3.03
	Date	4	24	25	14	-	3	27	25	11	11	7	6
	Time	0815	0430	0515	0945	-	0030	2145	2100	2200	2245	2015	0930
Minimum low tide	Elevation	-1.86	-1.86	-2.87	-2.73	-	-2.50	-2.01	-1.70	-1.94	-1.73	-1.59	-1.71
	Date	10	29	28	4	-	13	7	17	14	9	9	5
	Time	2230	0145	0130	2030	-	0300	0015	0745	0630	0245	0415	0245

NOTE.--Time shown is eastern standard.

THAMES RIVER BASIN

55

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
20...	1520	61	130	6.3	14.0	11.0	50	2.0	10.8	97	2100	220
NOV												
15...	1420	60	130	6.5	10.0	9.0	50	2.0	12.6	109	20000	2400
DEC												
11...	1500	252	78	6.7	-2.0	.5	50	1.0	14.8	103	5000	720
JAN												
16...	1405	418	64	6.7	.0	.5	5	3.0	14.4	100	3700	720
FEB												
13...	1500	194	78	6.2	<-5.0	.0	10	1.0	13.7	94	400	130
MAR												
14...	1420	626	56	6.3	10.5	5.0	5	1.0	13.1	102	3500	1500
APR												
10...	1430	454	60	6.8	7.0	6.0	20	2.0	12.9	103	6800	780
MAY												
10...	1410	228	64	6.8	34.5	22.0	30	2.0	9.8	111	2200	47
JUN												
14...	1355	102	87	6.8	23.0	18.0	20	2.0	9.9	104	3800	400
JUL												
19...	1300	53	95	6.4	30.0	25.0	20	2.0	9.2	109	23000	260
AUG												
10...	1330	44	108	7.3	29.5	22.0	25	4.0	9.6	109	32000	400
SEP												
21...	1515	78	90	6.8	19.0	12.5	24	3.0	10.2	95	12000	440

DATE	STREP- TOCOCI 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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-F T)
OCT												
20...	K9	--	--	--	--	--	--	--	17	--	86	.12
NOV												
15...	110	--	--	--	--	--	--	--	16	--	80	.11
DEC												
11...	130	16	6	4.1	1.5	10	--	10	9.8	8.7	62	.08
JAN												
16...	96	--	--	--	--	--	--	--	8.9	--	48	.07
FEB												
13...	80	--	--	--	--	--	--	--	11	--	51	.07
MAR												
14...	340	11	5	2.8	1.0	6	--	8.6	7.3	7.4	46	.06
APR												
10...	74	--	--	--	--	--	--	--	8.2	--	46	.06
MAY												
10...	K13	14	0	3.6	1.2	14	--	8.2	9.5	6.5	52	.07
JUN												
14...	190	--	--	--	--	--	--	--	13	--	66	.09
JUL												
19...	68	--	--	--	--	--	--	--	17	--	78	.11
AUG												
10...	170	20	8	5.4	1.6	12	1.2	13	15	6.6	75	.10
SEP												
21...	110	--	--	--	--	--	--	--	14	--	58	.08

< 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

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
OCT										
20...	14.2	85	--	--	.28	.00	--	.45	.45	.73
NOV										
15...	13.0	84	--	--	.45	.11	--	.38	.49	.94
DEC										
11...	42.2	63	--	--	.21	.06	--	.28	.34	.55
JAN										
16...	54.2	58	--	--	.20	.02	--	.48	.50	.70
FEB										
13...	26.7	60	--	--	.26	.11	--	.28	.39	.65
MAR										
14...	77.7	50	--	--	.22	.02	--	.23	.25	.47
APR										
10...	56.4	56	--	--	.19	.04	--	.10	.14	.33
MAY										
10...	32.0	53	--	--	.09	.01	.01	.30	.31	.40
JUN										
14...	18.2	87	--	--	.24	.07	.08	.45	.52	.76
JUL										
19...	11.2	80	--	--	.47	.04	.05	.44	.48	.95
AUG										
10...	8.91	86	--	--	.52	.03	.04	.61	.64	1.2
SEP										
21...	12.2	80	.10	.00	.10	.02	.02	.43	.45	.55

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P)	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)
OCT									
20...	3.2	.13	--	.07	20	--	--	20	7.1
NOV									
15...	4.2	.07	--	.04	31	--	--	30	5.7
DEC									
11...	2.4	.02	--	.00	11	170	20	0	6.8
JAN									
16...	3.1	.01	--	.00	6	--	--	10	5.8
FEB									
13...	2.9	.02	--	.01	9	--	--	10	2.1
MAR									
14...	2.1	.01	--	.00	5	70	40	10	4.4
APR									
10...	1.5	.02	--	--	5	--	--	0	5.1
MAY									
10...	1.8	.09	.28	.00	7	180	20	10	11
JUN									
14...	3.4	.01	.37	.32	15	--	--	20	5.6
JUL									
19...	4.2	.07	.21	.04	23	--	--	0	6.6
AUG									
10...	5.1	.14	.43	.11	30	320	20	8	7.8
SEP									
21...	2.4	.06	.18	.01	24	--	--	0	4.8

THAMES RIVER BASIN

57

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 20...	.00	390	13	.000	.000
NOV 15...	--	1000	21	.000	.000
DEC 11...	.00	1600	3.0	--	--
JAN 16...	--	54	2.8	.000	.000
FEB 13...	--	180	--	.000	.000
MAR 14...	.00	260	1.2	.000	.000
APR 10...	--	980	2.6	1.84	.000
MAY 10...	--	1100	.4	3.30	.000
JUN 14...	--	1900	14	.000	.000
JUL 19...	--	--	8.6	4.29	.000
AUG 10...	.00	1400	19	1.66	.000
SEP 21...	--	960	9.0	2.22	.000

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 20,78 1520	NOV 15,78 1420	DEC 11,78 1500	JAN 16,79 1405	FEB 13,79 1500	MAR 14,79 1420
TOTAL CELLS/ML	390	1000	1600	54	180	260
DIVERSITY: DIVISION	1.4	1.5	1.2	1.6	1.8	1.0
..CLASS	1.4	1.5	1.4	1.6	1.8	1.5
...ORDER	1.9	1.7	1.5	2.0	2.4	1.9
...FAMILY	2.2	2.6	2.3	2.9	2.9	2.2
....GENUS	2.3	2.6	3.0	2.9	2.9	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
...SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
...COFLASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
...PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
...ANKISTRODESMUS	--	-	14	1	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-	--	-
...SELENASTRUM	4	1	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
...CPUCIGENIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMUS	11	3	--	-	--	-	--	-	58#	22
...TETRASTRUM	7	2	--	-	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-
...CHLAMYDOMONAS	23	6	110	11	42	3	3	5	58#	22
...CHLOROGONIUM	--	-	--	-	--	-	--	-	--	-
...ZYGNEMALES										
...DESMIDIACEAE										
...COSMARIVUM	7	2	14	1	--	-	--	-	--	-
...STAUSTRUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCACEAE										
...CYCLOTELLA	5	1	--	-	28	2	3	5	10	6
...MELOSIRA	5	1	--	-	--	-	--	-	--	-
...PENNALES										
...ACHNANTHACEAE										
...ACHNANTHES	*	0	28	3	42	3	3	5 ¹	--	-
...COCCONEIS	--	-	--	-	--	-	--	-	--	-
...RHOICOSPHEA	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
...CYMBELLA	--	-	--	-	28	2	--	-	5	3
...EUNOTIACEAE										
...EUNOTIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIA	*	0	--	-	110	7	11#	20	10	6
...SYNEDRA	--	-	84	8	84	5	--	-	--	-
...GOMPHONEMACEAE										
...GOMPHONEMA	*	0	70	7	28	2	--	-	--	-
...MERIDIONACEAE										
...MERIDION	--	-	--	-	--	-	--	-	15	9
...NAVICULACEAE										
...NAVICULA	84#	21	390#	38	110	7	8	15	15	9
...PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHACEAE										
...NITZSCHIA	14	4	42	4	150	9	--	-	--	-
...SURIREFACEAE										
...SURIREFELLA	--	-	--	-	--	-	3	5	--	-
...TABELLARIACEAE										
...TABELLARIA	--	-	--	-	14	1	--	-	--	-
..CHRYSOPHYCEAE										
...CHRYSOMONADALES										
...OCHROMONADACEAE										
...DINOBRYON	--	-	--	-	56	3	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
...CHROOMONAS	--	-	--	-	--	-	3	5	--	-
...CRYPTOMONADACEAE										
...CRYPTOMONAS	*	0	28	3	--	-	3	5	20	11

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

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

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	OCT 20,78 1520		NOV 15,78 1420		DEC 11,78 1500		JAN 16,79 1405		FER 13,79 1500		MAR 14,79 1420	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	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	11	3	--	-	--	-	3	5	30#	17	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	220#	22	420#	26	--	-	--	-	--	-
....OSCILLATORIA	210#	54	--	-	490#	30	16#	30	51#	29	--	-
...RIVULARIACEAE	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE												
.....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	14	1	14	1	--	-	20	11	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
....GLENODINIACEAE												
.....GLENODINIUM	*	0	--	-	--	-	--	-	--	-	--	-

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

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

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON										
DATE TIME	APR 10,79 1430	MAY 10,79 1410	JUN 14,79 1355	AUG 10,79 1330	SEP 21,79 1515					
TOTAL CELLS/ML	980	1100	1900	1400	960					
DIVERSITY: DIVISION	1.3	0.9	0.7	0.8	1.5					
..CLASS	1.3	0.9	0.7	0.8	1.5					
...ORDER	1.3	1.0	1.3	1.2	1.9					
...FAMILY	1.7	1.6	1.5	2.5	2.6					
....GENUS	0.0	0.0	1.5	2.9	2.6					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
...SCHPODERIA	--	-	--	-	--	-	--	-	14	1
...COELASTRACEAE										
...COELASTRUM	--	-	--	-	--	-	410#	29	--	-
...HYDRODICTYACEAE										
...PEDIASTRUM	--	-	--	-	52	3	--	-	57	6
...OOCYSTACEAF										
...ANKISTRODESMUS	--	-	--	-	--	-	26	2	43	4
...DICTYOSPHAERIUM	--	-	--	-	--	-	90	6	--	-
...OOCYSTIS	--	-	--	-	52	3	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	13	1	--	-
...SCENEDESMACEAE										
...CRUCIGENIA	--	-	--	-	--	-	210	15	--	-
...SCENEDESMUS	--	-	--	-	160	8	340#	24	140	15
...TETRASTRUM	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE	87	9	72	7	--	-	--	-	--	-
...CHLAMYDOMONAS	29	3	--	-	13	1	100	7	--	-
...CHLOROGONIUM	--	-	--	-	--	-	--	-	14	1
...ZYGNEMATALES										
...DESMIDIACEAE										
...COSMARIVUM	--	-	14	1	--	-	--	-	--	-
...STAUSTRUM	--	-	14	1	--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCEAE										
...CYCLOTELLA	--	-	--	-	13	1	26	2	--	-
...MELOSIRA	--	-	--	-	--	-	--	-	--	-
...PENNALES										
...ACHNANTHACEAF										
...ACHNANTHES	--	-	--	-	--	-	--	-	--	-
...COCCONEIS	--	-	--	-	--	-	26	2	--	-
...RHOICOSPHEA	--	-	--	-	--	-	--	-	14	1
...CYMBELLACEAE										
...CYMBELLA	--	-	--	-	--	-	--	-	--	-
...EUNOTIACEAE										
...EUNOTIA	--	-	--	-	--	-	--	-	14	1
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	14	1	--	-	--	-	--	-
...FRAGILARIA	72	7	--	-	--	-	--	-	14	1
...SYNEDRA	--	-	14	1	--	-	--	-	--	-
...GOMPHONEMACEAE										
...GOMPHONEMA	14	1	29	3	--	-	--	-	--	-
...MERIDIONACEAE										
...MERIDION	14	1	--	-	--	-	--	-	--	-
...NAVICULACEAE										
...NAVICULA	14	1	--	-	--	-	65	5	72	7
...PINNULAHIA	--	-	14	1	--	-	--	-	--	-
...NITZSCHIA	14	1	29	3	--	-	52	4	14	1
...SURIARELLACEAE										
...SURIARELLA	29	3	14	1	--	-	--	-	--	-
...TABELLARIACEAE										
...TABELLARIA	--	-	--	-	--	-	--	-	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
...OCHROMONADACEAE										
...DINOBYRON	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
...CHROOMONAS	29	3	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
...CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-

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

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

THAMES RIVER BASIN

61

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

- QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	APR 10.79 1430		MAY 10.79 1410		JUN 14.79 1355		AUG 10.79 1330		SEP 21.79 1515	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCACEAE										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	460#	48
....ANACYSTIS	--	-	--	-	310#	16	52	4	--	-
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	86	9
...OSCILLATORIACEAE										
....LYNGBYA	250#	25	--	-	--	-	--	-	--	-
...OSCILLATOPIA	430#	44	780#	71	1300#	68	--	-	--	-
...RIVULARIACEAE	--	-	100	9	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	13	1	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
PYRPHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	14	1

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

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

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT

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.

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. 118). 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).--48 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)	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)
Jan. 3	0500	1340	37.9	6.86	2.091	Jan. 25	0800	5110	145	10.91	3.325
8	2000	2540	71.9	8.70	2.652	Feb. 25	1200	1320	37.4	6.83	2.082
14	0800	1290	36.5	6.78	2.067	Mar. 7	0300	4120	117	10.21	3.112
21	2400	2660	75.3	8.84	2.694	Apr. 27	2200	1810	51.3	7.65	2.332

Minimum discharge, 2.0 ft³/s (0.057 m³/s) Oct. 1, gage height, 2.66 ft (0.811 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Oct. 1.

REVISIONS.--The minimum discharge for the water year 1978 has been revised to 3.0 ft³/s (0.085 m³/s) Sept. 30, 1978, gage height, 2.68 ft (0.817 m), superceding figure published in WDR CT-78-1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	61	146	239	456	377	242	486	242	107	44	190
2	27	60	120	665	430	363	267	392	203	97	38	124
3	36	57	103	1160	365	357	357	360	180	77	37	104
4	40	57	122	609	321	386	351	443	180	57	39	92
5	40	46	197	405	299	476	360	360	178	48	28	99
6	167	43	161	289	244	1870	318	310	214	41	24	218
7	155	52	133	272	230	3260	263	294	180	38	28	329
8	96	51	120	1850	215	1550	240	270	153	35	42	205
9	70	49	298	1640	205	991	313	251	140	31	37	138
10	56	56	421	822	195	827	456	230	123	26	37	104
11	48	64	267	554	185	1500	424	212	117	26	77	104
12	43	46	195	405	180	1100	343	188	114	26	240	92
13	39	40	169	389	175	733	284	207	105	25	456	86
14	66	46	153	1080	170	639	307	279	99	22	260	134
15	110	53	137	706	160	573	354	365	94	22	176	178
16	89	51	128	517	155	459	392	292	89	24	109	119
17	73	51	124	402	155	408	377	230	67	53	83	83
18	56	100	115	370	140	383	321	203	80	55	72	84
19	51	93	98	319	135	365	279	182	91	44	86	79
20	57	73	102	321	130	340	253	196	79	36	117	73
21	55	73	167	1340	124	321	225	207	69	37	109	75
22	51	69	182	1990	214	307	216	180	61	25	83	289
23	49	65	147	930	223	297	218	238	60	23	69	265
24	55	66	119	645	490	277	216	490	46	27	50	176
25	53	79	175	4110	1080	332	188	771	44	29	77	141
26	48	73	179	2350	779	323	188	613	50	36	240	115
27	103	55	149	1370	459	282	1160	398	51	176	203	102
28	108	79	169	1030	395	253	1390	315	50	95	360	92
29	78	75	135	814	---	251	841	321	47	56	238	124
30	66	126	115	650	---	253	721	298	52	42	214	152
31	65	---	105	559	---	238	---	307	---	46	294	---
TOTAL	2054.0	1909	4951	28802	8309	20091	11864	9888	3258	1482	3967	4166
MEAN	66.3	63.6	160	929	297	648	395	319	109	47.8	128	139
MAX	167	126	421	4110	1080	3260	1390	771	242	176	456	329
MIN	4.0	40	98	239	124	238	188	180	44	22	24	73
(†)	0	+2.0	+1.7	+7.9	0	0	0	0	-2.3	-1.5	-0.6	-1.4
MEAN ‡	66.3	65.6	162	937	297	648	395	319	107	46.3	127	138
CFSM ‡	0.54	0.54	1.33	7.68	2.43	5.31	3.24	2.61	0.88	0.38	1.04	1.13
IN ‡	0.62	0.60	1.53	8.85	2.53	6.12	3.62	3.01	0.98	0.44	1.20	1.26

CAL YR 1978 TOTAL 81884.0 MEAN 224 MAX 3320 MIN 4.0 MEAN ‡ 223 CFSM ‡ 1.83 IN ‡ 24.86
WTR YR 1979 TOTAL 100741.0 MEAN 276 MAX 4110 MIN 4.0 MEAN ‡ 276 CFSM ‡ 2.26 IN ‡ 30.76

† Change in contents, equivalent in cubic feet per second, in Staffordville Reservoir.
‡ Adjusted for change in contents.

THAMES RIVER BASIN

63

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-57, 1963-64, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1975 to current year.

WATER TEMPERATURES: October 1956 to September 1957, May 1975 to current year.

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, 35 micromhos Aug. 27, 1979.

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, 219 micromhos Oct. 15; minimum, 35 micromhos Aug. 27.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 5; minimum, 0.0°C on several days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	123	115	119	141	130	134	75	45	53	---	---	---
2	167	121	142	135	129	132	76	57	65	---	---	---
3	137	120	129	132	127	129	106	72	95	---	---	---
4	165	126	149	129	120	125	115	50	105	---	---	---
5	171	144	156	120	113	118	72	37	48	---	---	---
6	161	117	144	127	118	121	52	44	51	---	---	---
7	146	118	134	136	127	133	68	64	76	---	---	---
8	170	144	156	135	127	132	72	67	89	---	---	---
9	173	168	171	127	123	125	---	---	---	---	---	---
10	168	161	165	125	116	122	---	---	---	---	---	---
11	160	121	142	134	116	127	---	---	---	---	---	---
12	119	101	105	125	113	117	---	---	---	---	---	---
13	100	92	97	118	115	117	---	---	---	---	---	---
14	213	90	134	119	115	116	---	---	---	---	---	---
15	219	215	217	130	119	126	---	---	---	---	---	---
16	212	177	190	129	125	126	---	---	---	83	78	80
17	179	148	161	124	111	117	---	---	---	83	79	81
18	146	108	127	191	109	146	---	---	---	86	77	81
19	108	100	103	199	132	190	---	---	---	91	87	89
20	131	106	121	165	155	170	---	---	---	89	78	82
21	128	112	120	156	143	148	---	---	---	101	75	83
22	113	100	105	143	136	140	---	---	---	78	62	66
23	114	107	110	144	138	142	---	---	---	68	64	65
24	141	117	133	136	131	135	---	---	---	71	65	70
25	136	116	127	144	134	138	---	---	---	---	---	---
26	116	107	110	144	134	139	---	---	---	63	60	62
27	156	111	140	136	127	133	---	---	---	62	60	61
28	135	122	126	125	113	120	---	---	---	---	---	---
29	146	133	140	135	123	130	---	---	---	66	59	63
30	145	140	143	135	83	116	---	---	---	73	67	71
31	141	133	136	---	---	---	---	---	---	77	70	74
MONTH	219	90	137	199	83	132	115	39	73	101	59	73

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	87	77	81	84	77	82	73	71	72	62	58	60
2	100	84	89	82	80	81	73	70	72	66	62	64
3	88	84	86	81	79	80	71	54	63	69	64	67
4	86	81	84	80	75	78	63	54	59	71	66	68
5	88	82	85	74	64	69	61	52	56	69	66	68
6	---	---	---	72	60	69	67	58	62	70	67	68
7	---	---	---	65	53	62	64	55	67	71	66	69
8	---	---	---	66	52	64	70	67	69	76	68	72
9	---	---	---	71	65	67	69	64	67	80	71	75
10	---	---	---	---	---	---	69	64	67	83	77	80
11	---	---	---	---	---	---	67	65	66	82	78	80
12	---	---	---	---	---	---	69	64	66	82	78	80
13	---	---	---	---	---	---	70	66	68	81	79	80
14	103	102	102	---	---	---	68	65	67	79	75	78
15	103	101	102	---	---	---	65	63	64	75	72	74
16	106	102	103	---	---	---	65	63	64	76	71	73
17	107	103	105	---	---	---	65	61	64	78	73	75
18	105	104	105	---	---	---	70	64	67	80	76	78
19	106	102	105	---	---	---	74	68	71	82	79	80
20	106	91	100	---	---	---	77	71	73	82	81	82
21	100	92	96	---	---	---	77	72	75	83	80	81
22	111	94	98	---	---	---	76	72	74	92	82	87
23	113	103	107	68	64	67	77	70	74	95	88	92
24	101	82	90	69	66	67	78	72	75	88	80	82
25	81	70	74	78	66	67	82	73	78	93	78	83
26	73	70	71	59	66	68	86	79	82	85	64	73
27	78	73	76	71	67	69	83	64	73	66	62	64
28	80	72	77	72	67	70	85	53	56	75	66	71
29	---	---	---	72	69	70	56	53	54	73	70	71
30	---	---	---	70	55	65	60	55	57	71	64	68
31	---	---	---	71	69	70	---	---	---	69	65	67
MONTH	113	79	92	84	55	70	86	52	67	95	58	75
JUNE			JULY			AUGUST			SEPTEMBER			
1	71	67	69	123	105	115	97	83	90	---	---	---
2	70	69	70	126	118	122	98	81	88	---	---	---
3	85	70	76	125	114	121	114	96	107	---	---	---
4	90	85	88	115	95	106	117	113	115	---	---	---
5	89	82	85	104	96	101	124	110	116	---	---	---
6	92	85	88	105	99	102	126	123	125	---	---	---
7	90	84	87	102	89	93	130	121	125	---	---	---
8	92	88	90	99	88	92	138	130	133	---	---	---
9	92	88	89	103	96	99	138	116	125	---	---	---
10	92	90	91	102	90	96	122	115	117	---	---	---
11	92	89	91	97	77	85	127	122	124	---	---	---
12	90	85	88	94	75	86	122	60	85	54	42	48
13	91	85	87	76	72	74	---	---	---	56	46	51
14	98	88	92	102	76	89	---	---	---	56	50	53
15	102	93	96	113	102	106	---	---	---	51	43	46
16	106	93	99	100	91	95	50	41	46	47	41	44
17	118	106	111	99	89	94	57	48	52	61	46	53
18	117	110	115	104	100	103	57	45	51	71	52	60
19	108	95	102	104	97	101	47	42	44	87	69	81
20	107	97	102	103	92	99	50	45	48	135	84	109
21	116	106	110	94	90	92	57	46	51	134	97	110
22	117	106	112	99	93	97	58	51	56	97	46	61
23	116	105	110	99	96	97	61	52	57	47	40	42
24	104	98	100	103	96	99	67	58	63	47	41	44
25	106	96	100	106	101	104	60	50	55	54	46	49
26	106	102	104	113	97	106	61	45	55	69	56	60
27	104	99	102	90	82	86	51	35	45	76	67	71
28	107	101	103	88	83	85	---	---	---	87	74	78
29	111	103	107	88	81	84	---	---	---	91	81	86
30	114	108	110	95	86	90	---	---	---	85	83	84
31	---	---	---	95	85	89	---	---	---	---	---	---
MONTH	118	67	96	126	72	97	138	35	82	135	40	65

THAMES RIVER BASIN

65

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

THAMES RIVER BASIN

01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	17.0	18.0	23.5	21.0	22.5	27.5	23.5	25.5	22.0	18.5	20.5
2	19.5	18.0	18.5	23.0	22.0	22.5	28.5	24.0	25.5	22.0	19.0	20.5
3	18.5	17.5	18.5	23.0	21.0	22.5	27.0	24.5	25.5	22.5	19.5	21.5
4	18.0	17.5	17.5	22.5	19.5	21.0	26.5	24.0	25.0	24.5	21.0	22.5
5	21.0	17.5	18.5	21.0	18.0	19.5	29.0	24.0	26.0	24.5	21.0	23.0
6	21.0	18.5	19.5	21.5	17.0	19.0	28.5	23.0	25.0	23.0	22.0	22.5
7	20.0	18.0	18.5	22.0	17.0	19.5	28.0	20.5	23.5	22.5	20.5	21.5
8	19.5	19.0	19.0	23.0	17.5	20.5	28.0	22.5	24.0	22.5	20.5	21.5
9	20.5	19.0	19.5	24.0	18.5	21.5	28.5	21.5	23.5	21.5	19.0	20.0
10	21.5	19.5	20.0	23.0	19.0	21.0	24.5	21.0	22.5	21.0	18.0	19.0
11	23.0	20.0	21.0	23.5	19.5	21.5	22.5	21.0	22.0	21.0	18.5	19.5
12	21.5	18.0	19.5	24.5	20.0	22.5	20.5	15.5	18.0	21.0	18.0	19.5
13	20.5	17.0	18.5	27.0	21.0	24.0	16.0	14.0	15.0	21.0	18.0	19.0
14	21.0	16.5	18.5	27.0	22.5	24.5	17.0	15.5	16.0	20.5	19.5	20.0
15	22.0	17.0	19.5	26.5	23.5	24.5	17.5	15.0	16.0	21.5	20.0	20.5
16	24.5	18.5	21.5	26.0	23.0	24.5	19.0	15.0	16.5	21.5	19.0	20.0
17	25.0	20.0	22.0	28.5	24.0	26.0	20.0	16.0	18.0	21.5	18.0	19.5
18	25.5	22.5	23.5	28.5	24.0	25.0	17.5	15.5	16.5	21.0	18.0	19.5
19	23.5	21.0	22.0	28.5	23.5	25.5	17.0	15.5	16.0	21.0	17.5	19.5
20	24.5	19.5	21.5	26.5	23.0	24.5	18.5	15.5	17.0	19.5	16.0	17.0
21	24.5	19.0	21.0	24.5	21.5	23.0	21.0	18.0	19.5	17.0	15.5	16.0
22	22.5	18.5	20.5	25.0	20.5	23.0	23.0	19.0	21.0	16.0	15.5	16.0
23	23.0	20.0	21.5	26.5	22.0	24.5	22.5	19.5	20.5	16.5	15.0	15.5
24	22.5	18.5	20.0	26.0	23.0	24.5	22.5	20.0	21.0	16.0	14.5	15.0
25	22.0	17.5	19.5	27.0	23.0	25.0	23.0	20.5	21.5	15.5	13.5	14.5
26	22.5	17.0	19.5	27.0	24.0	25.0	23.5	21.5	22.5	16.0	13.5	15.0
27	22.5	16.5	19.0	28.0	24.0	26.0	23.0	21.0	22.0	16.0	13.5	14.5
28	22.5	18.0	20.0	27.0	24.5	25.5	22.5	18.0	21.0	15.5	13.5	14.5
29	22.5	18.0	20.0	27.5	23.5	25.5	22.0	16.0	20.5	17.0	14.5	15.5
30	22.5	19.0	21.0	27.5	23.0	25.0	22.5	18.5	21.0	16.0	15.5	15.5
31	---	---	---	26.5	23.0	24.5	23.0	19.0	21.0	---	---	---
MONTH	25.5	16.5	20.0	28.5	17.0	23.5	29.0	14.0	21.0	24.5	13.5	18.5

THAMES RIVER BASIN

67

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.

AVERAGE DISCHARGE.--29 years, 8.13 ft³/s (0.230 m³/s), 26.60 in/yr (676 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)
Jan. 8	0900	255 7.22	5.30 1.615
Jan. 14	0700	234 6.63	5.17 1.576
Jan. 21	1500	*830 23.5	*6.95 2.118
Jan. 25	0830	384 10.9	5.73 1.747

Minimum discharge, 0.03 ft³/s (0.001 m³/s) Aug. 7, 8, gage height, 1.83 ft (0.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	2.0	9.8	24	20	7.5	6.1	11	8.4	1.1	.10	3.3
2	.41	1.9	7.0	53	17	7.2	7.8	7.5	5.9	.90	.07	2.0
3	.35	1.8	5.3	64	13	7.0	20	6.4	4.7	.65	.07	2.0
4	.33	1.5	12	21	12	6.8	15	17	4.2	.55	.07	1.6
5	.49	1.2	19	13	9.9	12	15	8.7	5.7	.55	.05	1.3
6	5.6	1.1	12	13	7.1	56	11	6.1	9.1	.47	.05	12
7	2.8	1.3	9.4	14	6.0	97	7.8	5.7	5.0	.47	.04	9.1
8	2.3	1.3	8.6	156	5.0	38	6.4	5.0	3.3	.40	.13	3.5
9	1.3	1.5	23	36	4.0	23	11	3.9	2.9	.34	.07	2.2
10	1.1	1.9	24	17	3.5	29	27	3.5	2.7	.28	.07	1.6
11	1.0	1.8	14	9.7	3.2	69	19	9.4	2.2	.26	.34	1.1
12	1.0	1.3	11	9.5	3.0	37	11	5.0	2.4	.24	11	.90
13	1.5	1.2	10	5.3	2.7	20	8.1	5.4	1.8	.22	22	.77
14	2.5	1.2	10	124	2.5	14	11	6.6	1.6	.21	4.4	2.0
15	3.0	1.0	8.8	43	2.4	12	14	9.4	1.3	.20	1.4	5.9
16	2.0	.85	8.1	12	2.3	8.0	13	5.9	1.1	.20	.65	2.9
17	1.7	.78	9.4	6.6	2.2	6.1	11	3.9	1.0	.40	.47	1.5
18	1.5	7.7	9.0	6.0	2.1	5.9	8.1	3.3	1.1	.30	.47	1.0
19	2.0	5.0	6.7	5.5	2.1	5.7	6.6	3.7	1.3	.25	.65	.80
20	3.5	1.9	5.6	5.0	2.0	5.5	5.9	7.8	1.0	.20	.55	.70
21	2.5	1.4	12	175	2.0	5.3	5.4	5.9	.90	.13	.47	4.2
22	2.3	1.1	12	109	5.0	5.2	5.2	4.4	.77	.10	.34	35
23	2.0	1.0	9.2	25	7.1	5.0	4.7	7.8	.77	.07	.28	16
24	1.7	3.5	7.7	14	9.1	5.0	4.4	33	.65	.05	.28	8.1
25	1.5	6.1	12	236	27	20	3.9	48	.65	.05	19	1.7
26	2.0	2.1	14	69	15	14	4.2	26	.34	.10	46	1.5
27	4.5	.74	10	48	10	8.4	66	12	.47	.65	9.1	1.4
28	3.5	1.2	8.1	40	8.0	6.1	47	8.4	.47	.24	16	1.3
29	2.7	1.5	6.6	31	---	5.9	32	9.8	.55	.15	5.7	2.0
30	2.5	11	5.2	26	---	6.1	17	20	.55	.07	5.7	4.0
31	2.2	---	5.6	22	---	6.1	---	22	---	.07	6.9	---
TOTAL	62.10	67.87	325.1	1432.6	205.2	553.8	424.6	332.5	72.82	9.87	152.42	131.37
MEAN	2.00	2.26	10.5	46.2	7.33	17.9	14.2	10.7	2.43	.32	4.92	4.38
MAX	5.6	11	24	236	27	97	66	48	9.1	1.1	46	35
MIN	.32	.74	5.2	5.0	2.0	5.0	3.9	3.3	.34	.05	.04	.70
CFSM	.48	.55	2.53	11.1	1.77	4.31	3.42	2.58	.59	.08	1.19	1.06
IN.	.56	.61	2.91	12.84	1.84	4.96	3.81	2.98	.65	.09	1.37	1.18
CAL YR 1978	TOTAL	3088.43	MEAN	8.46	MAX	230	MIN	.23	CFSM	2.04	IN	27.68
WTR YR 1979	TOTAL	3770.25	MEAN	10.3	MAX	236	MIN	.04	CFSM	2.48	IN	33.79

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 Warrenville, 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.--39 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)
Jan. 3	0230	585 16.6	5.38 1.640	Feb. 25	0530	490 13.9	4.95 1.509
8	1230	956 27.1	6.59 2.009	Mar. 6	2200	1,070 30.3	6.88 2.097
14	0530	528 15.0	5.14 1.567	11	1000	412 11.7	4.56 1.390
21	1900	1,340 37.9	7.42 2.262	Apr. 27	1530	560 15.9	5.28 1.609
25	0730	*3.080 87.2	*9.09 2.771				

Minimum discharge, 1.6 ft³/s (0.045 m³/s) Aug. 7, gage height, 1.11 (0.338 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	11	32	100	91	80	55	91	48	14	3.1	49
2	6.3	11	24	290	82	70	54	74	40	9.6	2.7	31
3	5.4	11	22	385	75	70	92	68	36	6.9	2.7	29
4	5.5	11	42	162	66	70	78	104	35	5.2	2.7	23
5	6.3	16	63	130	55	125	77	76	36	5.2	2.5	19
6	69	17	40	104	46	512	63	62	52	4.6	2.2	75
7	40	16	30	81	44	643	54	55	33	4.1	1.8	74
8	30	16	28	712	43	249	47	49	27	3.9	2.9	36
9	15	20	122	314	41	153	68	46	26	3.5	2.7	23
10	11	14	125	146	38	154	114	43	23	3.3	2.3	18
11	10	16	68	111	37	344	95	40	20	3.3	10	16
12	11	11	62	94	36	180	70	33	17	3.1	70	13
13	15	11	37	92	35	126	60	45	15	2.9	114	12
14	47	11	35	368	34	117	67	60	13	2.7	40	14
15	37	10	34	156	33	104	82	74	12	2.3	18	41
16	22	10	32	107	33	91	96	54	12	3.5	11	39
17	17	10	30	96	32	78	88	40	11	3.9	7.8	26
18	14	29	27	90	31	72	63	33	13	3.3	7.2	17
19	13	22	24	80	30	68	54	33	12	2.9	15	12
20	16	17	21	70	30	65	46	42	9.2	2.5	13	17
21	14	15	48	651	30	62	46	40	7.8	2.5	9.6	20
22	13	13	41	608	50	61	48	45	7.2	2.5	7.2	130
23	13	14	30	197	88	58	40	58	7.2	2.3	6.0	75
24	12	18	25	148	251	56	36	142	6.3	2.2	5.2	44
25	11	20	41	1620	314	71	35	224	6.0	4.1	17	35
26	18	15	41	445	126	65	36	142	5.5	6.6	128	31
27	38	13	33	261	99	56	404	84	5.5	29	64	27
28	35	13	28	190	88	50	310	70	4.9	10	98	24
29	24	13	23	150	---	51	167	76	4.9	5.7	43	49
30	16	36	20	124	---	54	119	63	5.5	4.4	70	40
31	13	---	22	106	---	63	---	68	---	3.5	133	---
TOTAL	602.9	460	1250	8188	1958	4018	2664	2134	551.0	163.5	912.6	1059
MEAN	19.4	15.3	40.3	264	69.9	130	88.8	68.8	18.4	5.27	29.4	35.3
MAX	69	36	125	1620	314	643	404	224	52	29	133	130
MIN	5.0	10	20	70	30	50	35	33	4.9	2.2	1.8	12
CFSM	.68	.54	1.41	9.23	2.44	4.55	3.11	2.41	.64	.18	1.03	1.23
IN.	.78	.60	1.63	10.65	2.55	5.23	3.46	2.78	.72	.21	1.19	1.38

CAL YR 1978 TOTAL 18741.8 MEAN 51.3 MAX 840 MIN 3.0 CFSM 1.79 IN 24.38
WTR YR 1979 TOTAL 23961.0 MFAN 65.6 MAX 1620 MIN 1.8 CFSM 2.29 IN 31.16

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 station 01121500). Chemical analyses available for water years 1954 (WSP 1350), 1958 (WSP 1571), and 1964 (WSP 1954).

AVERAGE DISCHARGE (adjusted for storage).--49 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, 3,500 ft³/s (99.1 m³/s) Jan. 29, gage height, 8.89 ft (2.710 m); minimum, 26 ft³/s (0.74 m³/s) Aug. 7-10, gage height, 1.16 ft (0.354 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	52	178	248	2500	865	203	1190	386	64	42	338
2	44	52	175	331	2200	641	178	865	324	72	38	244
3	43	52	175	765	1890	619	237	471	294	66	35	192
4	44	52	182	1330	1280	608	296	496	199	65	34	158
5	44	53	276	1430	633	597	399	509	137	55	32	133
6	88	75	329	958	415	587	405	424	142	48	30	151
7	58	100	175	371	373	260	356	373	106	44	28	272
8	51	100	178	984	331	1480	317	341	82	40	36	274
9	132	98	233	2090	310	2450	319	317	209	39	28	199
10	253	95	312	2170	300	2310	454	294	483	37	30	151
11	192	95	531	1430	280	2170	522	274	363	36	42	123
12	85	94	480	807	250	2020	448	263	220	34	139	100
13	81	92	451	537	240	1770	381	263	169	33	426	86
14	108	89	384	628	225	1080	353	279	141	31	405	79
15	102	66	218	1360	210	437	402	341	125	32	263	85
16	95	45	216	1140	200	448	440	363	112	30	182	97
17	95	45	214	677	190	471	451	317	104	30	135	100
18	94	81	186	432	180	466	402	268	110	30	111	89
19	86	97	123	443	180	451	348	237	120	31	106	80
20	169	97	91	268	180	440	317	244	106	31	106	68
21	140	95	113	486	190	435	285	259	91	34	98	66
22	89	94	144	666	250	426	274	248	80	35	88	182
23	88	95	184	1900	270	421	259	250	70	32	75	376
24	89	94	184	1740	500	415	244	483	65	32	64	315
25	88	97	210	662	1300	413	228	1200	60	31	65	235
26	85	95	244	576	1400	410	222	1280	54	39	176	184
27	100	97	270	1850	1450	405	542	570	50	80	305	151
28	78	97	259	2570	1470	397	913	386	48	83	338	130
29	52	95	250	2860	---	287	962	426	47	72	348	120
30	51	144	237	2360	---	194	1170	424	48	57	274	140
31	53	---	228	2590	---	197	---	477	---	49	341	---
TOTAL	2825	2533	7430	36659	19197	24170	12327	14132	4545	1392	4420	4918
MEAN	91.1	84.4	240	1183	686	780	411	456	152	44.9	143	164
MAX	253	144	531	2860	2500	2450	1170	1280	483	83	426	376
MIN	43	45	91	248	180	194	178	237	47	30	28	66
(†)	+1.7	0	-1.7	+232	-210	-30.9	+72.2	-47.9	-11.8	0	+13.1	-8.1
MEAN ‡	92.8	84.4	238	1415	476	749	483	408	140	44.9	156	156
CFSM ‡	0.54	0.49	1.39	8.27	2.78	4.38	2.82	2.39	0.82	0.26	0.91	0.91
IN ‡	0.62	0.55	1.60	9.53	2.90	5.05	3.15	2.76	0.92	0.30	1.05	1.02

CAL YR 1978 TOTAL 115573 MEAN 317 MAX 2630 MIN 25 MEAN ‡ 317 CFSM ‡ 1.85 IN ‡ 25.10
WTR YR 1979 TOTAL 134548 MEAN 369 MAX 2860 MIN 28 MEAN ‡ 371 CFSM ‡ 2.17 IN ‡ 29.45

† 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 current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT 20...	1340	175	94	6.5	14.0	11.5	50	2.0	11.0	100	1800	K7
NOV 15...	1300	61	102	6.4	10.5	9.5	40	3.0	12.1	105	4600	23
DEC 11...	1355	528	66	6.9	-1.0	3.5	40	1.0	13.8	103	4400	320
JAN 16...	1235	1160	63	6.6	1.5	.5	5	3.0	14.6	101	4000	76
FEB 13...	1315	239	75	6.6	<-5.0	.0	5	1.0	14.6	100	56	<1
MAR 14...	1300	1410	56	6.4	13.0	3.5	20	1.0	14.2	106	37	K6
APR 10...	1310	492	67	6.9	7.5	6.5	20	2.0	12.3	99	600	K8
MAY 10...	1250	298	71	6.8	34.0	21.0	20	2.0	9.4	104	2100	K3
JUN 14...	1230	142	77	6.9	22.5	21.0	20	5.0	9.2	102	14000	30
JUL 19...	1110	32	97	6.6	28.0	25.0	10	1.0	7.8	93	33000	60
AUG 10...	1115	28	122	7.1	25.0	22.5	25	3.0	7.2	82	26000	220
SEP 21...	1340	64	87	7.0	19.0	17.0	25	1.0	10.4	107	11000	28

DATE	STREP- TOCOCCI 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- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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 20...	K4	--	--	--	--	--	--	--	9.8	--	62	.08
NOV 15...	38	--	--	--	--	--	--	--	11	--	68	.09
DEC 11...	170	17	6	4.2	1.6	11	--	8.1	7.5	8.2	56	.08
JAN 16...	66	--	--	--	--	--	--	--	7.4	--	47	.06
FEB 13...	K12	--	--	--	--	--	--	--	8.2	--	58	.08
MAR 14...	K10	14	7	3.5	1.3	7	--	7.9	6.5	7.3	44	.06
APR 10...	K11	--	--	--	--	--	--	--	7.7	--	48	.07
MAY 10...	K11	17	0	4.5	1.4	17	--	8.5	7.3	5.4	49	.07
JUN 14...	120	--	--	--	--	--	--	--	7.7	--	60	.08
JUL 19...	66	--	--	--	--	--	--	--	11	--	78	.11
AUG 10...	180	29	5	8.2	2.1	24	3.7	17	11	7.5	79	.11
SEP 21...	54	--	--	--	--	--	--	--	9.5	--	64	.09

< 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

71

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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											
20...	29.3	64	--	--	.13	.04	--	.55	.59	.12	3.2
NOV											
15...	11.2	70	--	--	.22	.05	--	.18	.23	.45	2.0
DEC											
11...	79.8	62	--	--	.24	.04	--	.20	.24	.48	2.1
JAN											
16...	147	51	--	--	.29	.03	--	.25	.28	.57	2.5
FEB											
13...	37.4	60	--	--	.36	.02	--	.00	.00	.36	1.6
MAR											
14...	168	56	--	--	.27	.03	--	.19	.22	.49	2.2
APR											
10...	63.8	56	--	--	.22	.04	--	.22	.26	.48	2.1
MAY											
10...	39.4	49	--	--	.12	.04	.05	.23	.27	.39	1.7
JUN											
14...	23.0	60	--	--	.16	.06	.07	.13	.19	.35	1.6
JUL											
19...	6.74	84	--	--	.10	.04	.05	1.1	1.1	1.2	5.3
AUG											
10...	5.97	95	--	--	.14	.06	.07	.29	.35	.49	2.2
SEP											
21...	11.1	76	.00	.02	.00	.04	.05	.39	.43	.43	1.9

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										
20...	.02	--	4	--	--	10	6.5	.00	--	--
NOV										
15...	.01	--	0	--	--	0	4.0	--	--	--
DEC										
11...	.01	--	1	200	20	0	9.4	.00	.000	.000
JAN										
16...	.01	--	18	--	--	10	4.1	--	--	--
FEB										
13...	.00	--	2	--	--	0	2.1	--	--	--
MAR										
14...	.01	--	1	100	30	10	4.1	.00	1.29	.000
APR										
10...	.01	--	1	--	--	0	2.5	--	--	--
MAY										
10...	.23	.71	2	180	40	0	4.7	.00	2.64	.000
JUN										
14...	.01	.03	2	--	--	10	5.1	--	--	--
JUL										
19...	.01	.03	5	--	--	0	4.4	--	--	--
AUG										
10...	.03	.09	2	610	160	6	4.6	.00	9.42	.000
SEP										
21...	.02	.06	1	--	--	0	5.8	--	--	--

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 station 01121500). 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)--54 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, 11,480 ft³/s (325 m³/s) Jan. 25, gage height, 12.71 ft (3.874 m); minimum, 83 ft³/s (2.35 m³/s) July 23, 24, gage height, 1.77 ft (0.539 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	199	477	647	3240	1750	625	2090	827	196	128	625
2	145	191	420	1420	2730	1410	638	1590	695	225	116	432
3	152	188	382	2930	2380	1340	848	1090	615	205	112	352
4	157	183	416	2430	1820	1340	435	1240	523	167	112	306
5	157	175	661	2050	1150	1390	1030	1170	456	145	103	277
6	397	185	671	1480	821	2260	992	969	532	132	92	428
7	378	213	436	848	779	6330	854	859	444	121	88	865
8	265	213	409	3450	739	5070	744	816	363	112	123	610
9	287	208	739	5540	647	4380	805	734	498	108	110	420
10	385	208	1220	3610	630	3580	1300	675	724	106	103	320
11	323	219	1090	2290	600	4190	1330	625	587	103	160	280
12	213	202	870	1430	560	4060	1090	577	416	99	545	243
13	202	194	779	1160	540	3060	919	587	344	95	1370	219
14	274	194	690	2590	510	2210	881	666	306	92	946	237
15	330	185	472	2820	472	1480	1070	924	280	90	568	306
16	287	162	440	1980	450	1290	1160	886	259	88	389	280
17	265	162	440	1330	440	1220	1170	719	231	99	296	237
18	228	255	409	992	420	1160	1020	610	252	125	249	222
19	211	284	320	843	397	1100	875	559	330	108	271	202
20	296	243	274	714	405	1050	774	559	265	99	296	183
21	274	271	393	2320	413	1000	709	582	225	101	284	185
22	208	268	493	5410	528	969	657	545	202	97	234	638
23	191	265	452	4060	601	946	634	550	188	86	202	902
24	191	274	405	3120	1080	919	615	1380	170	86	170	634
25	185	296	532	8650	2160	975	568	2460	155	92	185	472
26	180	277	647	6930	2420	986	550	2750	152	103	416	382
27	274	249	577	4620	2540	913	1700	1460	143	385	523	323
28	293	271	468	4450	2340	854	3900	1010	139	268	759	284
29	225	271	460	4250	---	729	2750	1030	134	183	661	290
30	199	389	428	3450	---	643	2450	958	141	150	541	363
31	199	---	424	3480	---	629	---	1030	---	139	744	---
TOTAL	7519	6894	16894	91294	31812	59233	33593	31700	10596	4205	10896	11517
MEAN	243	230	545	2945	1136	1911	1120	1023	353	136	351	384
MAX	397	389	1220	8650	3240	6330	3900	2750	827	385	1370	902
MIN	145	162	274	647	397	629	550	545	134	86	88	183
(†)	+1.7	0	-1.7	+232	-210	-30.9	+72.2	-47.9	-11.8	0	+13.1	-8.1
MEAN ‡	245	230	543	3177	926	1880	1192	975	341	136	364	376
CFSM ‡	0.61	0.57	1.35	7.90	2.30	4.68	2.96	2.42	0.85	0.34	0.90	0.93
IN ‡	0.70	0.64	1.56	9.11	2.40	5.40	3.30	2.79	0.95	0.39	1.04	1.04

CAL YR 1978 TOTAL 280839 MEAN 769 MAX 7240 MIN 95 MEAN ‡ 769 CFSM ‡ 1.91 IN ‡ 25.94
WTR YR 1979 TOTAL 316153 MEAN 866 MAX 8650 MIN 86 MEAN ‡ 868 CFSM ‡ 2.16 IN ‡ 29.32

† 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

73

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
20...	1210	279	113	6.5	11.0	10.5	45	2.0	11.1	99	33000	1000
NOV												
15...	1110	181	135	6.5	11.5	8.5	30	2.0	11.7	100	55000	1200
DEC												
11...	1220	1030	76	7.2	-3.0	1.0	40	1.0	14.5	102	18000	880
JAN												
16...	1120	1900	71	7.0	.0	.5	5	2.0	14.6	101	6500	320
FEB												
13...	1130	598	92	6.3	<-5.0	.5	10	2.0	13.6	94	3100	60
MAR												
14...	1145	2450	62	6.3	13.0	3.0	20	1.0	13.3	98	1800	1300
APR												
10...	1145	1310	76	7.1	8.0	5.0	15	2.0	12.9	101	3400	460
MAY												
10...	1115	650	81	6.9	33.0	20.0	20	2.0	9.5	103	4900	44
JUN												
14...	1100	307	94	6.9	20.5	19.0	20	1.0	9.3	100	20000	180
JUL												
19...	1020	104	122	6.4	21.0	24.0	10	1.0	7.7	90	95000	320
AUG												
10...	0950	96	142	7.2	23.5	22.0	15	2.0	7.8	89	85000	120
SEP												
21...	1200	181	114	7.2	14.5	16.0	25	1.0	10.0	101	15000	48

DATE	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	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT												
20...	28	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	92	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	540	18	6	4.7	1.6	--	--	--	--	--	12	--
JAN												
16...	110	--	--	--	--	--	--	--	--	--	--	--
FEB												
13...	37	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	82	14	7	3.7	1.2	--	--	--	--	--	7	--
APR												
10...	160	18	10	4.8	1.4	5.8	40	.6	--	1.1	8	--
MAY												
10...	K14	19	11	5.1	1.4	7.7	46	.8	--	1.2	8	--
JUN												
14...	44	22	0	6.1	1.6	9.1	46	.8	--	1.3	22	--
JUL												
19...	68	29	4	8.0	2.1	17	55	1.4	19	1.7	25	19
AUG												
10...	80	29	4	8.5	2.0	16	52	1.3	18	2.0	25	3.1
SEP												
21...	58	25	9	6.8	1.9	12	58	1.0	14	1.8	16	2.0

< 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

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 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												
20...	--	12	--	--	72	--	.10	54.2	74	.35	--	.11
NOV												
15...	--	13	--	--	81	--	.11	39.6	84	.53	--	.21
DEC												
11...	10	9.5	--	8.7	61	--	.08	170	74	.31	--	.12
JAN												
16...	--	8.8	--	--	52	--	.07	267	54	.32	--	.05
FEB												
13...	--	10	--	--	60	--	.08	96.9	59	.46	--	.18
MAR												
14...	8.2	7.5	--	6.9	48	--	.07	318	56	.27	--	.08
APR												
10...	9.1	9.2	.0	6.8	52	43	.07	184	56	.29	--	.13
MAY												
10...	11	9.5	.1	6.0	59	47	.08	104	59	.25	--	.12
JUN												
14...	12	11	.1	8.3	68	63	.09	56.4	76	.37	--	.11
JUL												
19...	17	17	.1	6.5	105	84	.14	29.5	108	.34	--	.09
AUG												
10...	16	16	.1	5.9	95	82	.13	24.6	114	.50	--	.18
SEP												
21...	13	12	.1	--	77	60	.10	37.6	85	.63	.64	.13

DATE	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,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)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT											
20...	--	.54	.65	--	--	1.0	--	4.4	.11	--	--
NOV											
15...	--	.29	.50	--	--	1.0	--	4.6	.11	--	--
DEC											
11...	--	.24	.36	--	--	.67	--	3.0	.04	--	--
JAN											
16...	--	.64	.69	--	--	1.0	--	4.5	.03	--	--
FEB											
13...	--	.22	.40	--	--	.86	--	3.8	.05	--	--
MAR											
14...	--	.22	.30	--	--	.57	--	2.5	.02	--	--
APR											
10...	--	.16	.29	.10	.19	.58	--	2.6	.03	--	.03
MAY											
10...	.15	.33	.45	.14	.31	.70	--	3.1	.06	.18	.05
JUN											
14...	.13	.34	.45	.04	.41	.82	--	3.6	.07	.21	.05
JUL											
19...	.11	.61	.70	.15	.55	1.0	--	4.6	.18	.55	.14
AUG											
10...	.22	.51	.69	.12	.57	1.2	--	5.3	.18	.55	.15
SEP											
21...	.16	.50	.63	.08	.55	1.3	1.2	5.6	.13	.40	.11

THAMES RIVER BASIN

75

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC 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 CO)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CO)	CADMIUM DIS- SOLVED (UG/L AS CO)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	1	1	0	0	0	1	0	1	20	10	10	0
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	1	1	0	0	30	2	0	2	20	10	10	1
SEP 21...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT 20...	--	--	--	--	7	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	6	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	4	--	--	190	--	--	--	--
JAN 16...	--	--	--	--	6	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	3	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	5	--	--	80	--	--	--	--
APR 10...	--	--	--	--	3	--	--	--	--	--	--	--
MAY 10...	0	0	9	5	4	410	220	190	7	4	3	30
JUN 14...	--	--	--	--	9	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	5	--	--	--	--	--	--	--
AUG 10...	1	0	8	1	7	520	250	270	12	9	3	40
SEP 21...	--	--	--	--	6	--	--	--	--	--	--	--

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MANGA- NESE, SUS- PENDE RECOV, (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELLE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELLE- 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)
OCT 20...	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	20	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	30	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--
MAY 10...	10	20	<.5	.0	<.5	0	0	0	0	0
JUN 14...	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--
AUG 10...	20	20	<.5	.0	<.5	0	0	0	0	0
SEP 21...	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	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 20...	--	--	20	5.1	--	--	.00	--	--	--
NOV 15...	--	--	0	5.5	--	--	--	--	--	--
DEC 11...	--	--	0	8.0	--	--	.00	--	2.67	.000
JAN 16...	--	--	0	3.4	--	--	--	--	--	--
FEB 13...	--	--	0	2.8	--	--	--	--	--	--
MAR 14...	--	--	20	3.2	--	--	.00	--	.000	.000
APR 10...	--	--	10	2.9	--	--	--	--	--	--
MAY 10...	20	10	10	7.1	6.8	.3	.00	1200	1.80	.000
JUN 14...	--	--	0	5.3	--	--	--	--	--	--
JUL 19...	--	--	10	5.6	--	--	--	11000	--	--
AUG 10...	40	20	20	3.9	3.9	--	.00	4700	13.8	.000
SEP 21...	--	--	10	3.6	--	--	--	1100	--	--

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

THAMES RIVER BASIN

77

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						APR					
20...	1210	279	--	--	--	10...	1145	1310	9	32	100
NOV						MAY					
15...	1110	181	--	--	--	10...	1115	650	8	14	60
DEC						JUN					
11...	1220	1030	--	--	--	14...	1100	307	14	12	49
JAN						JUL					
16...	1120	1900	--	--	--	19...	1020	104	6	1.7	44
FEB						AUG					
13...	1130	598	--	--	--	10...	0950	96	3	.78	100
MAR						SEP					
14...	1145	2450	--	--	--	21...	1200	181	2	.98	86

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	MAY 10.79 1115	JUL 19.79 1020	AUG 10.79 0950	SEP 21.79 1200				
TOTAL CELLS/ML	1200	11000	4700	1100				
DIVERSITY: DIVISION	1.6	1.2	1.3	1.0				
..CLASS	1.7	1.2	1.3	1.0				
...ORDER	2.0	1.7	2.1	1.2				
...FAMILY	2.5	2.5	2.8	1.3				
....GENUS	0.0	2.9	3.1	1.5				
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		26	1	--	-
...COFLASTRACEAE								
...COFLASTRUM	--	-	220	2	150	3	--	-
...HYDRODICTYACEAE								
...PEDIASTRUM	--	-	--	-	100	2	--	-
...MICRACTINIACEAE								
...MICRACTINIUM	--	-	--	-	210	4	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	72	6	220	2	150	3	27	2
...DICTYOSPHAERIUM	58	5	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	3700#	34	64	1	--	-
...NEPHROCYTIUM	14	1	--	-	--	-	--	-
...OOCYSTIS	--	-	140	1	--	-	--	-
...SELENASTRUM	--	-	--	-	64	1	--	-
...TETRAEDRON	--	-	--	-	26	1	--	-
...SCENEDESMACEAE								
...ACTINASTRUM	--	-	1100	10	--	-	--	-
...CRUCIGENIA	--	-	--	-	130	3	55	5
...SCENEDESMUS	170	14	1100	10	720#	15	84	7
...TETRASPORALES								
...PALMELLACEAE								
...SPHAEROCYSTIS	29	2	580	5	--	-	14	1
...VOLVOCALES								
...CHLAMYDOMONADACEAE	29	2	--	-	--	-	--	-
...CHLAMYDOMONAS	14	1	190	2	130	3	14	1
...7YGNEMATALES								
...DESMIDIACEAE								
...EUASTRUM	--	-	--	-	* 0		--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
...CYCLOTELLA	--	-	310	3	140	3	14	1
...MELOSIRA	--	-	--	-	52	1	--	-
...PENNALES								
...ACHNANTHACEAE								
...ACHNANTHES	14	1	330	3	--	-	--	-
...RHOICOSPHENIA	14	1	--	-	--	-	--	-
...FRAGILARIACEAE								
...SYNEDRA	43	4	--	-	--	-	--	-
...GOMPHONEMACEAE								
...GOMPHONEMA	--	-	* 0		--	-	--	-
...NAVICULACEAE								
...NAVICULA	87	7	470	4	120	2	14	1
...PINNULARIA	--	-	* 0		--	-	--	-
...NITZSCHIA								
...NITZSCHIA	--	-	83	1	64	1	27	2
...SURIFRILLACEAE								
...SURIFRELLA	14	1	--	-	--	-	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...OCHROMONADACEAE								
...DINOBRYON	58	5	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...ANACYSTIS	--	-	2300#	21	1200#	27	840#	76
...HORMOGONALES								
...OSCILLATORIACEAE								
...LYNGBYA	580#	48	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	1300#	27	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...EUGLENA	14	1	--	-	--	-	14	1
...TRACHELOMONAS	--	-	--	-	* 0		--	-

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

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

THAMES RIVER BASIN

79

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, except those for periods of no gage-height record Mar. 6 to Apr. 3, which are fair.

AVERAGE DISCHARGE.--28 years, 57.4 ft³/s (1.626 m³/s), 25.64 in/yr (651 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)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 8	2230	668	18.9	4.67	1.423	Mar. 7	unknown	about 650	about 18.4	unknown	unknown
Jan. 22	0100	1,510	42.8	6.70	2.042	Apr. 27	2200	478	13.5	4.15	1.265
Jan. 25	unknown	*1,860	52.7	*7.33	2.234	May 25	1630	445	12.6	4.05	1.234
Feb. 26	1130	421	11.9	3.97	1.210						

Minimum discharge, 7.8 ft³/s (0.22 m³/s) Oct. 1, July 22, Aug. 7, 8; minimum gage height, 1.38 ft (0.421 m) July 22, Aug. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	17	53	59	111	135	50	92	92	20	9.2	17
2	16	15	42	137	99	119	50	78	71	19	9.0	14
3	12	14	37	393	93	109	100	70	59	17	8.7	15
4	10	13	47	164	85	102	94	105	61	15	15	15
5	28	13	77	124	78	103	94	91	64	14	11	13
6	76	14	59	101	72	200	78	71	73	13	9.2	21
7	59	15	45	85	65	450	64	61	54	12	8.5	37
8	35	15	39	399	60	400	57	55	47	12	11	24
9	26	15	104	592	56	320	73	50	44	11	9.8	17
10	21	15	175	400	53	290	114	47	40	11	9.2	14
11	19	15	93	130	50	330	95	42	37	11	16	13
12	20	15	78	120	48	320	74	39	36	10	88	11
13	17	15	56	97	46	200	64	46	35	10	143	10
14	30	15	51	360	43	150	70	53	30	9.8	66	11
15	43	14	46	159	40	110	90	78	28	9.5	36	15
16	30	14	42	109	38	100	91	61	25	9.8	24	13
17	26	14	40	97	37	98	84	47	24	9.5	18	11
18	26	29	37	88	36	92	70	42	24	9.2	19	10
19	23	35	35	80	35	87	59	40	29	9.0	29	9.5
20	24	28	34	74	35	82	54	59	24	8.5	21	9.0
21	24	24	56	492	41	80	50	49	21	8.5	17	9.5
22	22	23	66	1200	48	78	47	42	19	8.2	15	84
23	19	22	50	400	57	76	44	59	19	8.2	13	69
24	19	26	45	300	100	75	42	194	18	8.2	12	36
25	18	32	65	1500	217	75	40	321	17	8.2	12	24
26	17	28	82	379	306	74	42	256	15	8.2	24	20
27	35	23	59	274	179	70	291	135	15	48	19	17
28	37	24	52	199	148	60	314	101	15	19	23	14
29	28	25	47	163	---	55	172	94	14	13	21	28
30	23	46	43	138	---	50	119	90	15	11	28	23
31	19	---	36	122	---	50	---	138	---	10	21	---
TOTAL	813	613	1791	8935	2276	4540	2686	2706	1065	390.8	765.6	624.0
MEAN	26.2	20.4	57.8	288	81.3	146	89.5	87.3	35.5	12.6	24.7	20.8
MAX	76	46	175	1500	306	450	314	321	92	48	143	84
MIN	10	13	34	59	35	50	40	39	14	8.2	8.5	9.0
CFSM	.86	.67	1.90	9.47	2.67	4.80	2.94	2.87	1.17	.41	.81	.68
IN.	.99	.75	2.19	10.93	2.79	5.56	3.29	3.31	1.30	.48	.94	.76

CAL YR 1978	TOTAL	21867.3	MEAN 59.9	MAX 1290	MIN 5.9	CFSM 1.97	IN 26.76
WTR YR 1979	TOTAL	27205.4	MEAN 74.5	MAX 1500	MIN 8.2	CFSM 2.45	IN 33.29

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 gaging 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 1973-79.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 393 micromhos Sept. 24, 1970; minimum recorded, 52 micromhos March 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, 214 micromhos Dec. 2; minimum recorded, 52 micromhos March 7, but maximum and minimum may have been higher or lower during periods of no record.

pH: Maximum recorded, 8.7 units July 14; minimum recorded, 4.4 units Oct. 26, but maximum and minimum may have been higher or lower during periods of no record.

WATER TEMPERATURES: Maximum recorded, 31.5°C July 14, Aug. 5, but may have been higher during periods of no record; minimum, 0.0°C Nov. 26, 27 and probably on many days during winter periods.

DISSOLVED OXYGEN: Maximum recorded, 14.2 mg/L March 8, 9; minimum recorded, 4.7 mg/L July 15, but maximum and minimum may have been higher or lower during periods of no record.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	178	160	168	137	128	131	212	100	188			
2	157	144	158	156	132	150	214	203	210			
3	145	123	134	154	134	147	212	194	197			
4	123	106	117	152	139	146	---	---	---			
5	115	103	106	154	142	148	---	---	---			
6	---	---	---	149	134	141	---	---	---			
7	---	---	---	152	135	139	---	---	---			
8	---	---	---	147	142	145	---	---	---			
9	---	---	---	159	140	146	---	---	---			
10	---	---	---	150	143	147	---	---	---			
11	---	---	---	153	148	150	---	---	---			
12	190	133	164	153	146	149	---	---	---			
13	141	134	137	164	150	154	---	---	---			
14	143	135	140	165	141	146	---	---	---			
15	144	131	138	152	143	147	---	---	---			
16	160	145	151	184	142	152	---	---	---			
17	161	149	154	187	157	177	---	---	---			
18	156	150	153	174	138	152	---	---	---			
19	154	147	151	141	136	138	---	---	---			
20	149	129	139	140	136	138	---	---	---			
21	145	130	138	140	138	139	---	---	---			
22	150	143	147	149	138	143	---	---	---			
23	158	139	144	154	146	149	---	---	---			
24	---	---	---	156	147	149	---	---	---			
25	---	---	---	163	140	157	---	---	---			
26	---	---	---	157	150	153	---	---	---			
27	140	121	125	155	149	151	---	---	---			
28	127	116	122	158	154	156	---	---	---			
29	128	121	125	157	153	155	---	---	---			
30	133	120	127	176	140	166	---	---	---			
31	157	119	133	---	---	---	---	---	---			
MONTH	190	103	140	187	128	149	214	100	198			

THAMES RIVER BASIN

81

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---	95	93	94	79	74	76
2				140	135	137	94	92	93	83	79	80
3				129	125	128	97	93	94	85	84	84
4				121	115	118	95	92	94	88	83	86
5				109	100	105	93	89	92	88	87	87
6				94	80	86	93	91	92	88	86	86
7				76	52	71	91	89	90	90	86	88
8				68	61	66	91	89	90	93	89	91
9				60	55	57	99	89	92	93	90	92
10				---	---	---	99	94	97	97	93	95
11				---	---	---	97	93	94	97	94	96
12				---	---	---	93	90	91	97	95	96
13				---	---	---	91	89	90	97	93	95
14				---	---	---	93	89	91	93	89	90
15				---	---	---	92	91	91	93	88	90
16				---	---	---	90	88	89	92	91	91
17				---	---	---	93	91	92	94	91	93
18				---	---	---	92	89	91	94	91	93
19				---	---	---	92	90	91	96	91	93
20				79	78	78	95	91	93	95	91	93
21				81	78	79	96	93	94	96	92	93
22				81	79	80	96	92	94	98	94	96
23				83	81	82	96	91	93	99	92	96
24				83	81	82	99	95	97	90	86	89
25				87	81	83	99	95	97	91	79	86
26				89	85	87	99	96	98	84	81	83
27				90	88	89	100	84	90	81	77	79
28				92	90	91	89	83	87	78	76	77
29				93	90	91	82	75	78	80	76	78
30				94	92	93	75	73	74	82	75	80
31				97	94	95	---	---	---	88	79	83
MONTH				140	52	90	100	73	91	99	74	88
	JUNE			JULY			AUGUST			SEPTEMBER		
1	88	87	88	---	---	---	157	152	154	107	104	106
2	88	86	87	---	---	---	158	154	156	105	96	100
3	87	86	87	---	---	---	157	154	155	96	94	95
4	91	87	88	139	136	137	157	150	153	99	93	95
5	93	90	91	141	130	136	150	147	148	102	99	100
6	93	84	89	143	136	138	158	147	151	104	91	100
7	95	92	93	145	139	141	159	155	157	102	93	99
8	98	94	96	141	132	137	159	155	157	105	101	103
9	99	95	97	133	127	130	158	155	157	101	94	96
10	98	96	97	143	127	132	157	146	153	95	92	93
11	---	---	---	149	135	140	150	139	144	95	93	94
12	---	---	---	149	146	147	138	99	119	97	95	97
13	---	---	---	151	147	150	123	101	113	101	97	99
14	---	---	---	159	148	152	137	125	132	103	101	102
15	---	---	---	159	150	154	140	133	137	103	98	100
16	---	---	---	153	147	149	132	122	125	104	99	101
17	---	---	---	149	143	145	123	119	120	106	99	102
18	---	---	---	146	140	143	122	119	120	---	---	---
19	---	---	---	146	143	145	121	116	119	---	---	---
20	---	---	---	148	142	144	122	116	118	---	---	---
21	---	---	---	151	144	147	128	123	126	110	106	109
22	---	---	---	151	140	145	132	128	130	106	93	101
23	---	---	---	151	137	143	137	132	134	102	97	100
24	---	---	---	155	148	151	142	136	138	106	103	105
25	---	---	---	155	150	152	141	133	139	105	98	101
26	---	---	---	154	146	151	134	106	119	103	100	101
27	---	---	---	146	123	133	121	115	118	106	102	103
28	---	---	---	136	127	132	116	105	108	110	106	109
29	---	---	---	138	135	137	110	106	107	111	103	107
30	---	---	---	148	137	143	105	103	104	110	106	108
31	---	---	---	153	148	151	106	100	103	---	---	---
MONTH	99	84	91	159	123	143	159	99	133	111	91	101
YEAR	214	52	117									

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 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.1	6.8	6.9	7.0	6.8	6.9	8.3	8.0	8.2			
2	7.2	6.8	7.0	7.0	6.7	6.9	8.3	7.8	8.1			
3	7.1	6.9	7.0	7.1	6.7	6.8	8.5	8.2	8.4			
4	7.0	6.9	6.9	7.1	6.8	6.9	8.3	7.2	7.9			
5	6.9	6.4	6.7	7.3	6.9	7.0	---	---	---			
6	---	---	---	7.4	6.9	7.0	---	---	---			
7	---	---	---	7.2	6.8	6.9	---	---	---			
8	---	---	---	7.0	6.8	6.9	---	---	---			
9	---	---	---	7.3	6.9	7.0	---	---	---			
10	---	---	---	7.3	7.0	7.1	---	---	---			
11	---	---	---	7.3	7.0	7.1	---	---	---			
12	6.8	6.2	6.4	7.5	7.0	7.2	---	---	---			
13	6.7	6.3	6.5	7.7	7.3	7.5	---	---	---			
14	6.4	6.3	6.3	7.6	7.2	7.4	---	---	---			
15	6.5	6.2	6.4	7.6	7.2	7.3	---	---	---			
16	6.6	6.4	6.6	7.5	6.8	7.2	---	---	---			
17	6.8	6.6	6.7	7.3	6.8	7.0	---	---	---			
18	6.8	6.7	6.7	7.3	6.9	7.1	---	---	---			
19	6.7	6.5	6.7	7.4	6.9	7.1	---	---	---			
20	6.8	6.5	6.6	7.6	7.2	7.4	---	---	---			
21	6.8	6.6	6.7	7.6	7.3	7.4	---	---	---			
22	6.9	6.7	6.8	7.7	7.5	7.6	---	---	---			
23	6.9	6.6	6.7	7.9	7.0	7.7	---	---	---			
24	6.8	6.5	6.6	7.9	7.8	7.8	---	---	---			
25	6.6	4.5	6.3	8.1	7.9	8.0	---	---	---			
26	5.6	4.4	5.1	8.4	8.1	8.3	---	---	---			
27	7.0	4.5	6.8	8.4	8.2	8.3	---	---	---			
28	7.0	6.6	6.8	8.4	8.3	8.3	---	---	---			
29	7.2	6.8	6.9	8.3	8.2	8.3	---	---	---			
30	7.3	6.9	7.1	8.3	8.1	8.2	---	---	---			
31	7.1	6.9	7.0	---	---	---	---	---	---			
MONTH	7.3	4.4	6.7	8.4	6.7	7.4	8.5	7.2	8.2			
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	6.8	6.7	6.8	6.7	6.6	6.7
2				6.6	4.8	5.4	6.8	6.7	6.7	6.8	6.6	6.7
3				5.7	5.2	5.4	6.8	6.7	6.7	6.8	6.6	6.7
4				6.0	5.5	5.8	6.9	6.7	6.8	6.8	6.6	6.7
5				6.2	5.9	6.1	6.8	6.7	6.7	6.8	6.6	6.7
6				6.5	6.2	6.3	6.9	6.7	6.8	6.8	6.6	6.7
7				6.6	6.4	6.5	6.8	6.7	6.8	6.8	6.6	6.7
8				6.9	6.5	6.6	6.9	6.7	6.8	6.8	6.6	6.7
9				6.5	6.4	6.4	6.8	6.7	6.7	6.8	6.6	6.7
10				---	---	---	6.9	6.7	6.8	6.8	6.5	6.6
11				---	---	---	6.9	6.7	6.8	6.8	6.5	6.7
12				---	---	---	6.9	6.7	6.8	6.7	6.6	6.7
13				---	---	---	6.9	6.6	6.7	6.7	6.6	6.7
14				---	---	---	6.8	6.6	6.7	6.7	6.7	6.7
15				---	---	---	6.8	6.6	6.7	6.7	6.7	6.7
16				---	---	---	6.8	6.6	6.7	6.8	6.6	6.7
17				---	---	---	6.9	6.6	6.7	6.8	6.7	6.7
18				---	---	---	6.9	6.6	6.7	6.9	6.7	6.8
19				---	---	---	6.9	6.6	6.7	6.9	6.8	6.8
20				6.7	6.6	6.6	6.9	6.6	6.7	6.9	6.8	6.8
21				6.6	6.5	6.6	7.0	6.6	6.8	6.9	6.8	6.8
22				6.6	6.5	6.5	7.0	6.6	6.8	6.9	6.7	6.8
23				6.7	6.5	6.6	7.0	6.7	6.8	6.8	6.7	6.8
24				6.7	6.5	6.6	6.9	6.7	6.8	6.8	6.7	6.8
25				6.7	6.6	6.6	6.9	6.7	6.8	6.8	6.7	6.8
26				6.7	6.6	6.6	6.9	6.6	6.7	6.8	6.7	6.8
27				6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.7	6.8
28				6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.7	6.7
29				6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.7	6.7
30				6.6	6.6	6.6	6.7	6.6	6.6	6.7	6.7	6.7
31				6.9	6.7	6.8	---	---	---	6.8	6.7	6.7
MONTH				6.9	4.8	6.4	7.0	6.6	6.7	6.9	6.5	6.7

THAMES RIVER BASIN

83

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

PH (UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.9	6.7	6.8	---	---	---	7.1	6.6	6.8	6.6	6.5	6.6
2	6.9	6.7	6.8	---	---	---	7.0	6.6	6.7	6.7	6.5	6.6
3	6.9	6.7	6.8	---	---	---	7.0	6.6	6.7	6.7	6.5	6.6
4	6.9	6.7	6.8	7.3	6.8	7.1	7.0	6.6	6.7	6.7	6.5	6.6
5	6.9	6.7	6.8	7.4	6.8	7.0	7.2	6.7	6.9	6.7	6.5	6.5
6	6.9	6.7	6.8	7.3	6.8	7.0	7.2	6.7	6.9	6.6	6.5	6.5
7	6.9	6.7	6.8	7.3	6.8	7.0	7.1	6.7	6.9	6.7	6.5	6.6
8	6.9	6.7	6.8	7.4	6.8	7.1	7.4	6.7	6.9	6.7	6.6	6.6
9	6.9	6.8	6.8	7.5	6.8	7.1	7.3	6.6	6.8	6.8	6.6	6.7
10	7.0	6.8	6.9	7.6	6.8	7.1	7.1	6.5	6.6	6.8	6.6	6.7
11	---	---	---	7.4	6.7	7.0	6.6	6.5	6.5	6.8	6.6	6.7
12	---	---	---	7.1	6.7	6.8	6.6	6.5	6.5	6.8	6.6	6.7
13	---	---	---	8.2	6.7	7.2	6.6	6.5	6.6	6.8	6.6	6.7
14	---	---	---	8.7	6.8	7.4	6.6	6.5	6.5	6.7	6.5	6.6
15	---	---	---	7.6	6.7	7.0	6.7	6.5	6.6	6.7	6.5	6.6
16	---	---	---	7.3	6.7	6.9	6.8	6.5	6.6	6.8	6.6	6.6
17	---	---	---	7.2	6.6	6.8	6.8	6.5	6.6	6.8	6.6	6.7
18	---	---	---	6.9	6.6	6.7	6.7	6.5	6.5	---	---	---
19	---	---	---	6.9	6.5	6.7	6.7	6.5	6.6	---	---	---
20	---	---	---	7.5	6.5	6.8	6.8	6.5	6.6	---	---	---
21	---	---	---	8.3	6.7	7.2	6.8	6.4	6.5	6.7	6.5	6.6
22	---	---	---	8.2	6.6	7.2	6.8	6.4	6.6	6.7	6.5	6.6
23	---	---	---	8.2	6.7	7.2	7.0	6.4	6.6	6.8	6.6	6.7
24	---	---	---	7.1	6.6	6.8	7.1	6.5	6.7	6.8	6.7	6.7
25	---	---	---	6.8	6.5	6.6	7.0	6.5	6.7	6.8	6.6	6.7
26	---	---	---	6.7	6.5	6.6	6.7	6.6	6.6	6.8	6.6	6.7
27	---	---	---	6.7	6.5	6.5	6.8	6.6	6.7	6.8	6.6	6.7
28	---	---	---	6.9	6.5	6.7	6.7	6.5	6.6	6.8	6.6	6.7
29	---	---	---	7.1	6.7	6.8	6.7	6.6	6.6	6.7	6.6	6.6
30	---	---	---	7.1	6.7	6.8	6.7	6.5	6.6	6.7	6.5	6.6
31	---	---	---	7.0	6.7	6.8	6.7	6.5	6.6	---	---	---
MONTH	7.0	6.7	6.8	8.7	6.5	6.9	7.4	6.4	6.7	6.8	6.5	6.6
YEAR	8.7	4.4	6.8									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---	9.0	8.0	9.0	17.5	15.0	16.5
2				2.0	1.5	1.5	8.0	6.5	7.0	16.5	14.0	15.5
3				2.0	2.0	2.0	7.0	6.0	6.5	16.0	14.0	15.0
4				2.5	2.0	2.0	7.0	5.0	6.0	17.0	14.5	16.0
5				3.0	2.0	2.5	7.0	5.5	6.0	17.0	14.5	15.5
6				2.5	2.0	2.5	6.5	4.5	5.5	16.5	14.0	15.0
7				2.0	2.0	2.0	5.5	3.5	4.5	18.5	14.5	16.5
8				3.5	2.0	3.0	6.5	3.0	5.0	20.0	15.5	18.0
9				3.5	3.0	3.5	5.5	3.5	4.5	22.0	17.5	20.0
10				---	---	---	6.0	3.5	5.0	24.0	20.0	22.0
11				---	---	---	8.0	4.5	6.5	23.5	21.0	22.5
12				---	---	---	9.5	6.0	7.5	21.0	19.0	19.5
13				---	---	---	9.5	7.0	8.0	19.0	18.0	18.5
14				---	---	---	8.0	7.0	7.5	18.5	18.0	18.5
15				---	---	---	7.5	6.5	7.0	18.0	17.0	17.5
16				---	---	---	7.5	6.5	7.0	19.0	17.0	18.0
17				---	---	---	9.5	7.0	8.0	19.5	16.5	18.0
18				---	---	---	10.5	7.0	9.0	18.0	17.0	17.5
19				---	---	---	10.5	7.5	9.0	17.0	16.0	16.5
20				6.5	5.5	6.0	12.0	7.5	10.0	16.5	15.5	16.0
21				8.0	5.0	6.5	13.0	8.5	11.0	19.0	16.0	17.5
22				9.0	5.0	7.0	12.5	10.0	11.5	20.5	17.0	19.0
23				9.5	6.0	8.0	14.5	10.0	12.5	19.5	17.0	18.0
24				10.0	7.5	9.0	16.0	11.5	14.5	16.5	15.0	15.5
25				10.0	9.0	9.5	15.0	13.5	14.0	15.5	14.0	15.0
26				10.0	7.5	9.0	15.5	13.5	15.0	16.5	15.0	15.5
27				8.0	6.0	7.0	15.5	14.0	15.0	17.5	15.0	16.0
28				8.0	4.5	6.5	16.5	13.5	15.0	16.5	16.0	16.0
29				7.0	5.5	6.0	17.0	15.5	16.0	18.5	15.5	17.0
30				7.5	6.5	7.0	18.0	15.5	16.5	18.5	16.5	17.5
31				9.5	7.0	8.5	---	---	---	19.0	15.5	17.0
MONTH				10.0	1.5	5.5	18.0	3.0	9.5	24.0	14.0	17.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.0	17.0	18.0	---	---	---	30.5	26.5	28.0	23.5	21.5	22.5
2	20.5	18.0	19.5	---	---	---	31.0	27.0	28.5	23.5	21.5	22.5
3	20.0	18.5	19.5	---	---	---	30.5	27.5	28.5	25.0	23.0	24.0
4	20.0	18.5	19.5	24.5	21.0	23.0	29.5	27.0	28.0	25.5	23.5	24.5
5	22.0	18.5	20.5	22.5	19.0	20.5	31.5	26.0	28.5	25.0	23.5	24.5
6	21.5	18.5	20.0	23.0	17.5	20.0	29.5	25.5	27.5	25.0	22.5	24.0
7	22.0	18.5	20.0	23.5	17.5	20.5	29.5	23.0	26.0	24.0	22.0	23.0
8	21.5	20.0	21.0	26.0	19.0	22.5	28.5	24.5	26.0	22.5	21.0	22.0
9	23.0	20.5	21.5	26.5	20.5	23.5	28.0	23.0	25.0	21.0	19.0	20.0
10	23.5	21.5	22.5	27.0	21.5	24.0	26.5	22.5	24.0	20.0	18.0	19.5
11	---	---	---	27.0	22.0	24.0	24.0	22.5	23.5	21.0	19.5	20.0
12	---	---	---	26.0	22.0	23.0	22.0	17.5	20.0	20.5	18.0	19.5
13	---	---	---	30.5	22.5	26.0	19.0	17.0	18.0	21.5	18.5	20.0
14	---	---	---	31.5	23.0	27.0	19.0	17.5	18.5	22.0	20.5	21.0
15	---	---	---	28.5	25.5	26.5	19.5	17.5	19.0	22.0	20.0	21.0
16	---	---	---	29.0	25.5	26.5	20.5	18.0	19.5	20.5	18.5	19.5
17	---	---	---	29.5	25.0	27.0	20.5	18.5	19.5	20.5	17.5	19.0
18	---	---	---	27.0	25.0	26.0	19.0	17.5	18.5	---	---	---
19	---	---	---	29.5	24.0	26.5	18.5	17.5	18.0	---	---	---
20	---	---	---	28.5	24.5	26.0	20.5	18.5	19.5	---	---	---
21	---	---	---	28.5	24.0	26.0	23.5	20.0	21.5	17.5	17.0	17.0
22	---	---	---	29.0	23.5	26.0	24.5	21.0	22.5	17.5	16.5	17.0
23	---	---	---	30.5	24.0	27.0	24.0	21.5	22.5	17.0	15.0	16.0
24	---	---	---	29.5	25.5	27.0	25.0	22.0	23.0	16.0	14.0	15.5
25	---	---	---	31.0	25.0	27.5	26.0	23.0	24.0	16.0	14.0	15.0
26	---	---	---	29.5	26.0	27.5	25.0	23.5	24.5	17.0	15.0	16.0
27	---	---	---	29.5	27.0	28.0	24.0	23.0	23.5	17.0	15.5	16.5
28	---	---	---	29.0	26.0	27.0	25.0	22.5	24.0	17.5	16.0	17.0
29	---	---	---	29.5	25.5	27.5	24.5	23.5	24.0	18.5	17.5	18.0
30	---	---	---	30.0	26.0	27.5	25.5	24.0	24.5	18.0	16.5	17.0
31	---	---	---	29.5	26.0	27.5	25.0	23.0	24.0	---	---	---
MONTH	23.5	17.0	20.0	31.5	17.5	25.5	31.5	17.0	23.5	25.5	14.0	19.5
YEAR	31.5	.0	15.5									

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

THAMES RIVER BASIN

85

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.4	8.8	9.2	10.2	8.3	9.0	11.1	10.4	10.8			
2	9.2	8.6	9.0	10.6	8.2	9.2	11.2	10.2	10.7			
3	9.3	8.9	9.1	11.6	8.4	9.6	10.9	10.5	10.7			
4	9.7	9.4	9.6	11.5	9.7	10.5	11.3	10.8	10.9			
5	10.0	9.5	9.6	11.4	10.1	10.6	---	---	---			
6	---	---	---	11.2	9.8	10.3	---	---	---			
7	---	---	---	10.7	10.0	10.3	---	---	---			
8	---	---	---	10.4	10.1	10.2	---	---	---			
9	---	---	---	11.3	10.1	10.5	---	---	---			
10	---	---	---	11.4	10.1	10.6	---	---	---			
11	---	---	---	11.1	10.2	10.5	---	---	---			
12	10.6	8.1	9.6	10.7	10.1	10.4	---	---	---			
13	9.2	8.1	8.6	11.3	10.3	10.7	---	---	---			
14	8.8	8.4	8.5	11.3	10.5	10.8	---	---	---			
15	8.7	8.2	8.5	11.2	10.1	10.6	---	---	---			
16	8.9	8.5	8.7	11.8	10.0	10.8	---	---	---			
17	9.0	8.4	8.8	12.3	10.9	11.6	---	---	---			
18	9.0	8.5	8.7	12.5	10.1	11.6	---	---	---			
19	8.8	8.1	8.5	11.0	9.8	10.3	---	---	---			
20	10.9	7.9	9.0	11.0	9.8	10.2	---	---	---			
21	10.8	8.0	9.7	10.2	9.9	10.1	---	---	---			
22	10.5	8.9	9.4	10.3	10.1	10.2	---	---	---			
23	9.9	8.7	9.1	10.6	10.2	10.3	---	---	---			
24	9.4	8.8	9.0	10.5	10.3	10.4	---	---	---			
25	9.4	8.2	8.9	10.9	10.3	10.5	---	---	---			
26	8.7	8.0	8.4	10.9	10.2	10.5	---	---	---			
27	9.4	8.0	8.9	10.6	10.2	10.4	---	---	---			
28	9.8	8.1	8.7	10.9	10.5	10.7	---	---	---			
29	9.7	7.9	8.6	11.5	10.5	11.0	---	---	---			
30	9.5	7.9	8.4	11.6	10.9	11.1	---	---	---			
31	10.4	8.0	9.0	---	---	---	---	---	---			
MONTH	10.9	7.9	8.9	12.5	8.2	10.5	11.3	10.2	10.8			
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	11.0	10.4	10.7	10.0	9.2	9.5
2				12.9	12.3	12.6	11.3	10.7	11.1	10.4	9.4	9.8
3				12.6	12.1	12.4	12.7	11.0	11.8	10.3	9.4	9.9
4				12.6	12.1	12.4	12.8	11.9	12.3	10.0	9.2	9.6
5				12.8	12.2	12.5	12.5	11.9	12.2	10.1	9.1	9.5
6				13.6	12.6	13.0	12.5	12.0	12.2	10.0	9.1	9.6
7				14.1	12.9	13.3	12.9	12.2	12.6	10.0	8.5	9.4
8				14.2	13.8	13.9	13.2	11.7	12.5	9.5	8.2	8.9
9				14.2	13.8	13.9	12.6	11.9	12.3	9.1	7.6	8.5
10				---	---	---	12.8	11.8	12.3	8.4	6.7	7.7
11				---	---	---	12.6	11.3	11.9	8.1	7.0	7.4
12				---	---	---	12.0	10.5	11.3	8.1	7.1	7.6
13				---	---	---	11.9	10.6	11.1	8.1	7.6	7.9
14				---	---	---	11.7	10.9	11.3	8.5	7.9	8.3
15				---	---	---	12.2	11.3	11.7	8.9	8.4	8.7
16				---	---	---	12.1	11.4	11.7	9.1	8.4	8.7
17				---	---	---	12.1	11.1	11.6	9.3	8.4	8.8
18				---	---	---	12.1	10.9	11.5	9.3	8.4	8.8
19				---	---	---	11.9	10.7	11.4	9.4	8.7	9.0
20				12.6	12.2	12.4	11.8	10.3	11.1	9.6	8.9	9.2
21				12.7	11.6	12.3	11.4	9.8	10.7	9.7	8.5	9.2
22				12.4	11.3	11.9	11.2	9.9	10.5	9.3	8.2	8.8
23				12.0	10.8	11.4	11.0	9.1	10.2	9.1	8.2	8.7
24				11.5	10.4	10.9	10.5	9.0	9.8	9.3	8.7	9.0
25				10.9	10.4	10.6	10.5	9.1	9.7	9.8	9.2	9.4
26				11.3	10.5	10.9	10.2	8.7	9.5	9.5	8.9	9.3
27				12.1	11.0	11.5	9.8	8.8	9.4	9.6	8.9	9.3
28				12.4	11.2	11.9	10.1	9.3	9.6	9.4	9.0	9.2
29				12.1	11.4	11.7	9.9	9.3	9.5	9.4	8.6	9.1
30				11.7	11.4	11.5	9.8	9.2	9.5	9.2	8.7	9.0
31				11.6	10.3	11.0	---	---	---	9.7	8.8	9.3
MONTH				14.2	10.3	12.1	13.2	8.7	11.1	10.4	6.7	8.9

THAMES RIVER BASIN

01123990 QUINEBAUG RIVER NEAR DUDLEY, MA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNF			JULY			AUGUST			SEPTEMBER	
1	9.3	8.3	8.9	---	---	---	8.5	5.2	6.5	8.6	7.8	8.1
2	9.3	8.3	8.8	---	---	---	8.2	5.1	6.4	8.6	7.7	8.1
3	9.1	8.4	8.7	---	---	---	8.1	5.0	6.3	8.2	7.4	7.8
4	8.9	8.1	8.5	8.9	6.6	7.9	7.8	5.2	6.2	8.1	7.2	7.6
5	8.8	7.7	8.3	9.6	6.8	8.1	8.4	5.5	6.7	8.2	7.1	7.5
6	8.7	8.0	8.3	10.0	7.1	8.4	8.7	5.6	6.8	7.5	6.9	7.2
7	9.2	8.1	8.7	9.9	6.8	8.3	8.7	5.7	7.0	8.2	7.4	7.7
8	8.9	8.0	8.5	9.7	6.5	8.1	9.0	5.8	7.1	8.5	7.6	8.1
9	8.9	7.9	8.3	9.5	6.0	7.8	9.0	5.8	7.1	9.1	8.1	8.6
10	8.7	7.5	8.1	9.6	5.8	7.6	8.6	5.8	6.8	9.3	8.2	8.7
11	---	---	---	9.2	5.5	7.1	7.3	6.1	6.6	9.0	8.1	8.5
12	---	---	---	8.8	5.5	6.4	8.6	6.5	7.8	9.2	8.0	8.5
13	---	---	---	9.8	5.7	8.3	9.4	8.5	8.9	9.2	7.8	8.4
14	---	---	---	10.0	5.1	7.3	9.2	8.5	8.8	8.5	7.4	7.9
15	---	---	---	9.2	4.7	6.3	9.3	8.4	8.8	8.5	7.4	7.9
16	---	---	---	8.8	5.4	6.7	9.4	8.3	8.8	9.1	7.9	8.4
17	---	---	---	8.9	5.3	6.8	9.5	8.3	8.8	9.4	8.0	8.6
18	---	---	---	8.2	5.3	6.5	9.4	8.3	8.8	---	---	---
19	---	---	---	8.6	5.4	6.8	9.6	8.6	9.0	---	---	---
20	---	---	---	9.2	5.4	7.2	9.7	8.0	8.9	---	---	---
21	---	---	---	10.2	5.7	7.6	9.5	7.4	8.4	9.2	8.4	8.8
22	---	---	---	10.3	5.7	7.7	9.4	7.0	8.1	9.0	8.5	8.8
23	---	---	---	10.3	5.4	7.6	9.1	6.8	7.7	9.9	9.0	9.4
24	---	---	---	9.1	5.2	6.8	9.2	6.3	7.4	10.4	9.3	9.7
25	---	---	---	8.1	4.9	6.2	8.7	6.4	7.2	10.4	9.4	9.8
26	---	---	---	7.5	4.8	5.9	8.2	6.9	7.4	10.2	9.1	9.5
27	---	---	---	7.8	5.9	6.7	8.3	7.2	7.6	10.2	9.0	9.4
28	---	---	---	7.6	5.8	6.5	8.3	7.5	7.8	10.1	8.8	9.4
29	---	---	---	7.7	6.0	6.6	8.0	7.4	7.7	9.5	8.6	8.9
30	---	---	---	8.0	5.8	6.8	8.1	7.4	7.7	9.4	8.6	9.0
31	---	---	---	8.1	5.5	6.7	8.3	7.4	7.8	---	---	---
MONTH	9.3	7.5	8.5	10.3	4.7	7.2	9.7	5.0	7.6	10.4	6.9	8.5
YEAR	14.2	4.7	9.3									

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.118), 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)--48 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, 2,740 ft³/s (77.6 m³/s) Jan. 26, gage height, 6.37 ft (1.942 m); minimum, 2.1 ft³/s (0.059 m³/s) July 13, gage height, 1.76 ft (0.536 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	74	166	325	1550	588	343	660	425	52	52	242
2	170	69	155	820	1190	405	352	516	361	52	46	230
3	175	65	145	1190	1120	420	348	452	316	52	43	205
4	164	63	174	898	766	441	441	463	281	48	46	180
5	175	61	220	732	458	570	559	420	285	46	43	141
6	222	60	202	565	380	1060	474	375	339	44	41	188
7	200	59	188	588	335	1540	420	343	281	44	37	227
8	170	58	177	1950	300	1520	380	321	245	46	37	217
9	140	58	325	1550	280	1660	425	298	224	39	35	191
10	123	58	395	1250	250	1380	521	273	206	32	46	162
11	110	56	348	1070	235	1690	516	257	184	34	60	141
12	96	54	303	913	220	1630	480	238	170	31	152	122
13	82	54	265	705	208	1380	436	249	145	4.0	265	105
14	90	54	238	949	200	1220	425	307	128	18	217	105
15	104	54	210	752	190	1160	431	361	114	34	217	135
16	96	54	191	617	180	1070	447	334	105	37	195	116
17	87	56	195	526	175	787	436	294	97	43	155	108
18	78	103	195	469	170	570	400	265	92	41	120	100
19	70	97	294	463	164	495	366	242	90	41	100	92
20	70	92	261	425	162	452	334	245	83	41	87	83
21	70	90	206	949	159	425	307	238	75	39	77	78
22	68	88	202	1050	170	400	294	220	60	35	70	166
23	66	83	188	1120	195	395	277	245	60	32	65	184
24	63	100	174	820	495	380	261	395	58	31	62	184
25	61	116	213	2180	623	390	249	629	54	29	70	195
26	58	108	206	1060	480	500	257	660	52	43	180	184
27	73	92	188	1260	738	463	692	565	46	114	190	170
28	80	97	277	1600	876	415	876	495	44	78	220	145
29	85	92	253	1670	---	380	891	447	43	75	220	166
30	90	152	174	1690	---	366	862	452	43	66	220	166
31	80	---	131	1700	---	352	---	543	---	58	265	---
TOTAL	3346	2317	6859	31856	12269	24504	13500	11802	4706	1379.0	3633	4728
MEAN	108	77.2	221	1028	438	790	450	381	157	44.5	117	158
MAX	222	152	395	2180	1550	1690	891	660	425	114	265	242
MIN	58	54	131	325	159	352	249	220	43	4.0	35	78
(†)	+0.6	+0.7	0	+122	-116	-14.2	+14.1	-11.5	-6.8	+0.1	+4.9	-2.3
MEAN ‡	109	77.9	221	1150	322	776	464	370	150	44.6	122	156
CFSM ‡	0.70	0.50	1.42	7.37	2.06	4.97	2.97	2.37	0.96	0.29	0.78	1.00
IN ‡	0.81	0.56	1.64	8.50	2.14	5.73	3.31	2.73	1.07	0.33	0.90	1.12

CAL YR 1978 TOTAL 97148.0 MEAN 266 MAX 1680 MIN 18 MEAN‡ 266 CFSM ‡ 1.71 IN ‡ 23.13
WTR YR 1979 TOTAL 120899.0 MEAN 331 MAX 2180 MIN 4.0 MEAN‡ 331 CFSM ‡ 2.12 IN ‡ 28.84

† 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.118), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--13 years, 319 ft³/s (9.034 m³/s), 25.18 in/yr (640 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, 2,690 ft³/s (76.2 m³/s) Jan. 29, gage height, 6.99 ft (2.131 m); minimum, no flow part of Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	93	159	205	2470	1180	384	835	518	27	45	272
2	115	85	164	500	1880	563	344	589	431	44	65	259
3	141	75	157	964	1350	444	458	520	371	56	54	238
4	143	74	155	1090	981	491	505	452	232	58	51	206
5	146	67	215	987	549	586	549	475	243	57	49	169
6	223	64	236	735	373	700	555	433	328	57	46	159
7	270	64	223	567	373	1000	478	396	346	57	43	218
8	215	62	202	1030	353	1500	429	362	304	56	43	220
9	169	60	250	1750	312	1760	430	337	259	56	42	206
10	141	59	449	1770	267	1770	556	312	200	56	41	179
11	121	59	405	1470	239	1750	573	302	184	42	55	116
12	108	58	346	1030	233	1730	534	277	183	36	109	93
13	96	57	295	824	223	1620	491	269	181	36	246	93
14	95	56	267	1030	186	1450	461	289	119	35	251	96
15	131	56	233	976	176	1340	474	374	95	35	220	96
16	86	56	210	760	177	1130	474	392	96	35	207	96
17	45	56	197	633	175	806	477	352	96	36	177	98
18	63	78	184	532	163	609	456	306	96	60	145	98
19	95	100	146	424	146	471	419	276	96	55	130	98
20	106	100	150	398	137	473	385	268	96	39	116	98
21	106	100	174	244	138	450	352	260	96	40	102	98
22	106	96	215	567	162	432	326	246	96	40	87	167
23	106	91	205	1660	198	424	313	236	94	51	74	200
24	105	91	186	1000	146	413	292	386	92	56	64	200
25	103	110	194	83	57	487	274	573	61	55	64	200
26	101	114	217	169	317	541	265	836	33	54	131	200
27	117	105	197	1190	815	484	563	669	27	87	147	199
28	119	103	169	2040	1130	435	949	572	27	103	246	193
29	110	103	141	2360	---	410	986	515	27	103	264	189
30	105	121	129	2490	---	393	871	473	27	102	252	188
31	101	---	131	2460	---	384	---	602	---	100	271	---
TOTAL	3776	2413	6601	31938	13726	26226	14623	13184	5054	1724	3837	4942
MFAN	122	80.4	213	1030	490	846	487	425	168	55.6	124	165
MAX	270	121	449	2490	2470	1770	986	835	518	103	271	272
MIN	45	56	129	83	57	384	265	236	27	27	41	93
(†)	+1.4	+0.7	+1.9	+200	-162	-48.0	+14.1	-9.9	-17.2	-1.5	+13.9	-3.5
MEAN ‡	123	81.1	215	1230	328	798	501	415	151	54.1	138	162
CFSM ‡	0.72	0.47	1.25	7.15	1.91	4.64	2.91	2.41	0.88	0.31	0.80	0.94
IN ‡	0.83	0.52	1.44	8.24	1.99	5.35	3.25	2.78	0.98	0.36	0.92	1.05

CAL YR 1978 TOTAL 104401 MEAN 286 MAX 2100 MIN 25 MEAN ‡ 285 CFSM ‡ 1.66 IN ‡ 22.52
WTP YR 1979 TOTAL 128044 MEAN 351 MAX 2490 MIN 27 MEAN ‡ 352 CFSM ‡ 2.05 IN ‡ 27.71

† 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

89

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 Mechanicsville, and 0.2 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1000	78	175	6.4	6.0	9.0	40	1.0	9.8	84	15000	300
NOV												
17...	1400	3.0	220	6.5	8.0	5.0	30	2.0	10.8	84	200	44
DEC												
12...	1500	199	145	7.1	1.0	2.0	30	1.0	13.7	99	3000	54
JAN												
11...	1000	584	115	6.9	<-5.0	.5	20	5.0	15.2	106	5200	240
FEB												
14...	1100	304	116	6.4	<-5.0	.0	25	1.0	13.3	91	200	K11
MAR												
13...	1020	220	85	6.6	.5	1.0	20	1.0	13.7	96	120000	21000
APR												
12...	1420	300	105	7.1	17.5	9.5	25	2.0	11.4	99	440	K10
MAY												
09...	1430	219	110	6.8	33.5	21.0	30	2.0	8.8	98	31000	140
JUN												
12...	1410	157	100	6.8	16.0	21.0	30	3.0	8.9	99	19000	230
JUL												
17...	1045	57	115	6.3	25.5	24.0	20	2.0	6.4	75	20000	5400
AUG												
07...	1130	23	195	7.3	24.0	23.0	30	2.0	7.8	90	120000	230
SEP												
20...	1350	41	150	7.5	18.5	16.0	35	2.0	11.0	111	62000	84

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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	70	--	--	--	--	--	--	--	16	--	103	.14
NOV												
17...	22	--	--	--	--	--	--	--	20	--	125	.17
DEC												
12...	57	24	11	7.1	1.4	13	--	15	21	6.4	93	.13
JAN												
11...	210	--	--	--	--	--	--	--	15	--	70	.10
FEB												
14...	K17	--	--	--	--	--	--	--	15	--	70	.10
MAR												
13...	3400	15	8	4.0	1.1	7	--	9.5	10	5.8	52	.07
APR												
12...	K3	--	--	--	--	--	--	--	20	--	57	.08
MAY												
09...	K11	19	6	5.8	1.1	13	--	17	13	3.1	73	.10
JUN												
12...	48	--	--	--	--	--	--	--	12	--	74	.10
JUL												
17...	7200	--	--	--	--	--	--	--	17	--	92	.13
AUG												
07...	100	27	3	8.4	1.5	24	2.3	30	18	4.0	130	.18
SEP												
20...	100	--	--	--	--	--	--	--	17	--	99	.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)

THAMES RIVER BASIN

01125150 FRENCH RIVER AT MECHANICSVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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...	21.7	110	--	--	.83	.17	--	.93	1.1	1.9	8.5
NOV 17...	1.01	131	--	--	1.4	.05	--	1.2	1.2	2.6	12
DEC 12...	50.0	97	--	--	.54	.28	--	.58	.86	1.4	6.2
JAN 11...	110	82	--	--	.35	.13	--	.29	.42	.77	3.4
FEB 14...	57.5	81	--	--	.53	.28	--	.23	.51	1.0	4.6
MAR 13...	30.9	55	--	--	.27	.14	--	1.9	2.0	2.3	10
APR 12...	46.2	76	--	--	.35	.15	--	.55	.70	1.1	4.6
MAY 09...	43.2	76	--	--	.51	.14	.17	.53	.67	1.2	5.2
JUN 12...	31.4	79	--	--	.62	.20	.24	.67	.87	1.5	6.6
JUL 17...	14.2	97	--	--	1.4	.18	.22	.82	1.0	2.4	11
AUG 07...	8.07	139	--	--	1.4	.04	.05	1.1	1.1	2.5	11
SEP 20...	11.0	121	.00	.02	.00	.01	.01	1.4	1.4	1.4	6.2

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...	.20	--	35	--	--	60	6.7	.10	--	--
NOV 17...	.20	--	8	--	--	30	8.3	--	--	--
DEC 12...	.11	--	5	160	40	0	6.9	.00	2.46	.000
JAN 11...	.07	--	12	--	--	20	6.1	--	--	--
FEB 14...	.08	--	4	--	--	30	8.0	--	--	--
MAR 13...	.12	--	2	100	50	20	4.8	.00	.930	.000
APR 12...	.10	--	6	--	--	10	6.1	--	--	--
MAY 09...	.11	.34	9	240	30	20	9.4	.00	5.37	.000
JUN 12...	.17	.52	14	--	--	20	6.8	--	--	--
JUL 17...	.61	1.9	10	--	--	20	6.6	--	--	--
AUG 07...	.58	1.8	11	330	40	20	10	.00	9.17	.000
SEP 20...	.35	1.1	9	--	--	10	9.3	--	--	--

THAMES RIVER BASIN

91

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 current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT 17...	1130	121	172	6.7	6.5	10.0	40	1.0	11.6	103	15000	230
NOV 17...	1320	56	165	6.7	8.5	6.5	30	3.0	12.6	102	2900	320
DEC 12...	1430	546	135	7.1	3.0	1.0	40	1.0	14.5	102	2700	200
JAN 11...	1110	2170	97	7.0	<-5.0	.5	20	2.0	15.7	109	1400	200
FEB 14...	1200	484	112	6.6	<-5.0	.0	20	1.0	14.6	100	80	43
MAR 13...	1115	1890	72	6.5	3.0	1.0	20	1.0	14.6	103	68000	4000
APR 12...	1340	845	103	7.1	16.0	8.0	15	2.0	11.5	97	250	19
MAY 09...	1345	563	99	6.8	34.0	19.5	30	2.0	9.0	97	17000	960
JUN 12...	1320	343	100	6.7	16.0	21.5	30	2.0	8.7	98	12000	88
JUL 17...	1125	88	128	6.6	26.0	25.5	15	3.0	8.1	98	3800	390
AUG 07...	1230	62	155	8.6	27.0	25.5	21	5.0	9.3	112	260000	92
SEP 20...	1315	141	119	7.4	17.5	17.0	36	2.0	9.7	100	24000	84

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CA)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	30	--	--	--	--	--	--	--	18	--	101	.14
NOV 17...	66	--	--	--	--	--	--	--	23	--	94	.13
DEC 12...	160	23	10	6.5	1.7	13	--	12	21	7.0	80	.11
JAN 11...	250	--	--	--	--	--	--	--	14	--	66	.09
FEB 14...	K6	--	--	--	--	--	--	--	14	--	66	.09
MAR 13...	170	16	8	4.9	1.0	8	--	11	11	5.4	60	.08
APR 12...	K4	--	--	--	--	--	--	--	16	--	63	.09
MAY 09...	55	19	7	5.4	1.3	12	--	12	15	3.6	66	.09
JUN 12...	110	--	--	--	--	--	--	--	14	--	57	.08
JUL 17...	3200	--	--	--	--	--	--	--	20	--	100	.14
AUG 07...	23	26	8	7.8	1.7	18	.7	18	22	3.8	103	.14
SEP 20...	23	--	--	--	--	--	--	--	17	--	79	.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)

THAMES RIVER BASIN

01125200 QUINEBAUG RIVER AT PUTNAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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...	33.0	109	--	--	.68	.09	--	.66	.75	1.4	6.3
NOV 17...	14.2	103	--	--	.56	.10	--	.59	.69	1.3	5.5
DEC 12...	118	86	--	--	.36	.15	--	.41	.56	.92	4.1
JAN 11...	387	66	--	--	.28	.07	--	.35	.42	.70	3.1
FEB 14...	86.2	80	--	--	.35	.03	--	.28	.31	.66	2.9
MAR 13...	306	66	--	--	.44	.22	--	.68	.90	1.3	5.9
APR 12...	144	78	--	--	.28	.11	--	.47	.58	.86	3.8
MAY 09...	100	70	--	--	.29	.12	.15	.42	.54	.83	3.7
JUN 12...	52.8	82	--	--	.42	.15	.18	.57	.72	1.1	5.0
JUL 17...	23.8	103	--	--	.44	.23	.28	1.2	1.4	1.8	8.1
AUG 07...	17.2	111	--	--	.32	.01	.01	1.3	1.3	1.6	7.2
SEP 20...	30.1	102	.00	.00	.00	.04	.05	.87	.91	.91	4.0

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 17...	.27	--	13	--	--	30	6.9	.10	--	--
NOV 17...	.18	--	3	--	--	10	5.8	--	--	--
DEC 12...	.09	--	4	180	20	10	5.7	.00	1.52	.000
JAN 11...	.05	--	4	--	--	30	8.3	--	--	--
FEB 14...	.07	--	3	--	--	10	6.5	--	--	--
MAR 13...	.12	--	4	100	40	10	7.7	.00	.000	.000
APR 12...	.07	--	6	--	--	0	5.0	--	--	--
MAY 09...	.25	.77	5	270	50	10	6.6	.00	8.43	.000
JUN 12...	.14	.43	12	--	--	10	6.1	--	--	--
JUL 17...	.47	1.4	9	--	--	10	5.9	--	--	--
AUG 07...	.37	1.1	9	330	60	6	13	.20	31.8	.000
SEP 20...	.22	.67	4	--	--	0	6.1	--	--	--

THAMES RIVER BASIN

93

01125415 MUDDY BROOK 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).

PERIOD OF RECORD.--Discharge measurements April 1962 to Septmeber 1962, July 19, 1978 to October 30, 1978; October 31, 1978 to September 30, 1979.

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, 1,030 ft³/s (29.2 m³/s) Jan. 25, gage height, 6.90 ft (2.103 m); minimum, 1.0 ft³/s (.028 m³/s) Aug. 10, minimum gage height, 2.08 ft (0.634 m) June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	7.5	29	54	69	52	43	53	42	5.3	1.8	4.5
2	---	7.0	24	103	60	56	44	45	36	4.3	1.7	4.0
3	---	6.0	20	239	51	66	65	42	32	4.3	1.5	3.5
4	---	5.5	32	97	47	68	60	55	30	6.5	1.5	3.0
5	---	5.0	41	37	43	84	59	45	32	4.6	1.4	3.0
6	---	4.5	31	25	38	213	51	39	40	4.0	1.2	10
7	---	7.0	25	25	35	409	44	36	31	4.0	1.3	18
8	---	9.0	24	587	32	169	40	34	27	4.0	1.3	10
9	---	9.0	57	237	30	90	51	31	26	3.8	1.2	5.7
10	---	10	64	63	27	82	79	31	24	3.8	1.1	4.0
11	---	10	40	34	26	189	67	42	21	3.3	1.9	3.2
12	---	10	30	29	25	116	52	31	21	2.5	22	2.9
13	---	9.4	28	22	24	77	46	32	19	2.5	40	2.7
14	---	9.4	26	208	24	72	47	36	18	2.3	24	2.8
15	---	9.4	24	74	23	67	51	44	17	2.2	14	5.7
16	---	11	22	34	23	53	51	36	16	2.2	7.0	3.8
17	---	12	25	23	22	50	49	30	15	7.9	4.0	3.2
18	---	25	25	17	22	47	44	26	14	3.3	3.5	2.8
19	---	24	14	16	22	45	39	25	22	3.1	6.0	2.5
20	---	20	10	11	21	44	37	32	15	3.1	5.5	2.4
21	---	19	31	129	21	43	35	31	12	2.8	4.5	2.8
22	---	19	29	437	21	41	32	26	11	2.7	4.0	26
23	---	18	24	106	21	40	32	31	10	2.4	3.5	23
24	---	24	18	49	81	40	30	74	9.4	2.0	3.2	12
25	---	25	31	579	210	71	28	130	9.4	2.0	5.0	7.4
26	---	20	32	358	96	61	28	104	8.4	2.1	70	5.7
27	---	13	25	202	61	48	122	62	7.9	3.3	40	4.6
28	---	15	20	148	54	43	150	49	7.9	2.3	25	4.3
29	---	18	13	111	---	42	89	51	8.9	2.0	15	12
30	---	32	11	91	---	41	69	54	5.3	1.9	10	13
31	7.5	---	12	79	---	41	---	61	---	1.8	7.0	---
TOTAL	---	413.7	837	4224	1229	2560	1634	1418	588.2	102.3	329.1	208.5
MEAN	---	13.8	27.0	136	43.9	82.6	54.5	45.7	19.6	3.30	10.6	6.95
MAX	---	32	64	587	210	409	150	130	42	7.9	70	26
MIN	---	4.5	10	11	21	40	28	25	5.3	1.8	1.1	2.4
CF5M	---	.69	1.34	6.77	2.18	4.11	2.71	2.27	.98	.16	.53	.35
IN.	---	.77	1.55	7.82	2.27	4.74	3.02	2.62	1.09	.19	.61	.39

THAMES RIVER BASIN

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 current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1350	158	170	6.6	9.0	10.0	40	1.0	11.0	97	40000	3700
NOV												
17...	1145	74	185	6.5	8.0	5.5	30	3.0	10.2	80	190000	4100
DEC												
12...	1300	713	132	7.1	4.0	1.0	35	1.0	14.7	104	17000	2100
JAN												
11...	1245	2840	97	7.1	-5.0	.5	20	2.0	13.9	97	4000	220
FEB												
14...	1330	632	116	6.3	<-5.0	.0	20	1.0	14.4	99	1200	120
MAR												
13...	1300	2470	74	6.4	4.5	1.5	20	1.0	13.9	99	65000	3800
APR												
12...	1200	1100	102	6.9	15.5	7.5	20	7.0	12.2	103	22000	2500
MAY												
09...	1225	736	98	6.9	33.0	18.5	30	4.0	8.9	95	13000	240
JUN												
12...	1215	448	103	6.5	17.5	20.5	30	2.0	9.2	101	180000	20000
JUL												
17...	1245	115	132	6.9	30.5	25.0	15	4.0	9.0	107	50000	860
AUG												
07...	1345	82	163	8.0	29.5	24.5	14	4.0	9.3	109	110000	44
SEP												
20...	1230	184	128	7.1	16.0	16.0	35	2.0	9.4	95	32000	640

DATE	STREP- TOCOCCI 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	26	--	--	--	--	--	--	--	18	--	101	.14
NOV												
17...	240	--	--	--	--	--	--	--	23	--	104	.14
DEC												
12...	140	25	13	7.1	1.7	12	--	12	20	7.2	87	.12
JAN												
11...	160	--	--	--	--	--	--	--	13	--	64	.09
FEB												
14...	100	--	--	--	--	--	--	--	15	--	72	.10
MAR												
13...	140	14	0	4.1	1.0	17	--	8.3	11	5.4	52	.07
APR												
12...	340	--	--	--	--	--	--	--	16	--	60	.08
MAY												
09...	K13	20	6	6.0	1.3	14	--	11	14	3.9	67	.09
JUN												
12...	140	--	--	--	--	--	--	--	14	--	70	.10
JUL												
17...	620	--	--	--	--	--	--	--	21	--	104	.14
AUG												
07...	25	32	8	9.5	2.0	24	.5	17	23	5.1	108	.15
SEP												
20...	32	--	--	--	--	--	--	--	17	--	81	.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)

THAMES RIVER BASIN

95

01125720 QUINEBAUG RIVER AT POMFRET LANDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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...	43.1	106	--	--	.66	.08	--	.67	.75	1.4	6.2
NOV 17...	20.8	106	--	--	.66	.30	--	.65	.95	1.6	7.1
DEC 12...	167	85	--	--	.40	.16	--	.42	.58	.98	4.3
JAN 11...	491	80	--	--	.32	.08	--	.24	.32	.64	2.8
FEB 14...	123	81	--	--	.51	.21	--	.26	.47	.98	4.3
MAR 13...	347	58	--	--	.31	.15	--	.32	.47	.78	3.5
APR 12...	178	73	--	--	.33	.06	--	.44	.50	.83	3.7
MAY 09...	133	73	--	--	.34	.12	.15	.45	.57	.91	4.0
JUN 12...	84.7	83	--	--	.56	.09	.11	.59	.68	1.2	5.5
JUL 17...	32.3	108	--	--	.77	.00	.00	1.2	1.2	2.0	8.7
AUG 07...	23.9	106	--	--	.36	.04	.05	1.4	1.4	1.8	7.8
SEP 20...	40.2	103	.60	.01	.61	.03	.04	.65	.68	1.3	5.7

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...	.19	--	7	--	--	20	5.9	.00	--	--
NOV 17...	.26	--	9	--	--	10	6.6	--	--	--
DEC 12...	.11	--	5	170	30	10	5.8	.00	4.83	.000
JAN 11...	.05	--	6	--	--	40	5.7	--	--	--
FEB 14...	.07	--	3	--	--	30	6.0	--	--	--
MAR 13...	.06	--	2	90	40	0	2.9	.00	.830	.000
APR 12...	.06	--	5	--	--	0	4.5	--	--	--
MAY 09...	.33	1.0	4	280	40	10	5.3	.00	7.43	.000
JUN 12...	.15	.46	8	--	--	10	6.4	--	--	--
JUL 17...	.37	1.1	7	--	--	0	5.1	--	--	--
AUG 07...	.34	1.0	7	170	60	9	9.5	.10	30.5	.000
SEP 20...	.21	.64	11	--	--	0	5.8	--	--	--

THAMES RIVER BASIN

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, Buffumville Reservoirs, (see p.118), by Lake Chaubunagungamaug, estimated usable capacity, 207,000,000 ft³ (5,860,000 m³) and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage).--61 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 ft³/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, 16,100 ft³/s (456 m³/s) Jan. 25, gage height, 18.44 ft (5.620 m); minimum, 185 ft³/s (5.24 m³/s) July 17, gage height, 4.60 ft (1.402 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	317	428	928	1010	5770	4330	1610	3600	3280	386	530	909		
2	401	401	890	2000	5160	3940	1600	3010	2630	410	400	807		
3	386	382	813	5290	4330	2920	1890	2490	2210	396	550	768		
4	377	347	860	5010	3780	2780	2260	2510	2030	368	540	696		
5	386	330	1180	3840	3120	2770	2210	2390	1880	342	490	595		
6	574	312	1260	3300	2330	3640	2210	2170	1980	321	455	622		
7	854	304	1140	2760	2300	6690	2050	1970	1900	308	425	825		
8	736	304	1030	5620	2250	6680	1850	1800	1710	296	401	884		
9	600	288	1450	8010	2170	6040	1840	1650	1540	276	355	802		
10	506	280	2560	6200	1880	5560	2280	1530	1390	268	304	702		
11	449	272	2340	4930	1780	5760	2380	1440	1210	261	347	595		
12	401	280	1870	3910	1700	5390	2210	1370	1150	239	1000	453		
13	377	268	1570	3620	1400	4680	2020	1380	1050	218	1850	386		
14	466	276	1410	6120	1200	4660	1910	1470	967	209	1760	386		
15	622	317	1260	5600	1240	4500	2050	1780	825	203	1390	461		
16	584	292	1130	4200	1220	4080	2060	1840	774	206	1120	449		
17	474	257	1080	3390	1190	3490	2020	1640	731	200	897	420		
18	410	415	1060	2940	1160	2970	1910	1480	696	215	747	391		
19	428	600	860	2200	1140	2520	1740	1350	731	340	720	355		
20	457	605	872	2240	1090	2180	1600	1410	667	240	655	317		
21	424	564	1090	6070	1060	2040	1500	1380	590	250	584	330		
22	382	530	1300	13000	1190	1940	1420	1300	544	250	511	1060		
23	377	497	1210	8260	1320	1850	1360	1370	520	320	453	1480		
24	386	520	1090	6610	1910	1780	1290	3050	492	350	405	1220		
25	396	569	1180	12200	3410	1940	1230	5110	461	350	386	1000		
26	382	574	1420	12800	3940	2220	1190	6350	405	340	559	854		
27	515	539	1310	8330	4610	2110	2580	4890	359	460	725	752		
28	574	539	1030	7420	4380	1940	5560	3660	334	580	831	672		
29	506	539	960	6940	---	1800	4830	3170	326	770	993	633		
30	470	714	884	6580	---	1720	4220	2880	321	740	1010	684		
31	453	---	872	6110	---	1660	---	3670	---	690	1000	---		
TOTAL	14670	12543	37909	176510	68030	106580	64880	75110	33703	10402	22393	20508		
MEAN	473	418	1223	5694	2430	3438	2163	2423	1123	348	722	684		
MAX	854	714	2560	13000	5770	6690	5560	6350	3280	770	1850	1480		
MIN	317	257	813	1010	1060	1660	1190	1300	321	200	304	317		
(†)	+2.5	+0.1	+2.2	+342	-295	-66.5	+34.3	-26.6	-23.6	+0.5	+13.9	-4.4		
MEAN ‡	476	418	1225	6036	2135	3372	2197	2396	1099	348	736	680		
CFSM ‡	0.66	0.58	1.71	8.44	2.99	4.72	3.07	3.35	1.54	0.49	1.03	0.95		
IN ‡	0.76	0.65	1.97	9.73	3.11	5.44	3.42	3.86	1.72	0.56	1.18	1.06		
CAL YR 1978	TOTAL	539155	MEAN	1477	MAX	15200	MIN	184	MEAN ‡	1476	CFSM ‡	2.06	IN ‡	28.04
WTR YR 1979	TOTAL	643638	MEAN	1763	MAX	13000	MIN	200	MEAN ‡	1764	CFSM ‡	2.47	IN ‡	33.46

† 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.

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.

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, 157 micromhos November 14; minimum, 63 micromhos March 17.

WATER TEMPERATURES: Maximum, 30.0°C July 27, 29-30; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1545	455	128	6.5	10.5	12.5	30	2.0	10.7	100	4600	600
NOV												
17...	1020	254	144	6.7	9.0	7.0	20	3.0	12.7	104	2700	160
DEC												
12...	1030	1890	98	6.9	-1.0	1.0	45	1.0	14.3	101	3200	640
JAN												
11...	1440	4950	82	7.1	-2.0	.5	20	3.0	15.1	105	1600	260
FEB												
14...	1540	1330	85	6.3	<-5.0	.0	20	1.0	14.2	97	5600	1600
MAR												
13...	1510	4620	66	6.5	6.0	2.0	20	1.0	12.4	89	2000	200
APP												
12...	1045	2240	84	7.0	13.5	7.0	15	2.0	12.2	100	2100	460
MAY												
09...	1015	1680	92	6.7	28.5	19.0	30	3.0	9.7	104	3500	47
JUN												
12...	1100	1160	83	6.4	15.5	20.5	30	3.0	9.1	100	14000	110
JUL												
17...	1415	203	104	8.9	28.5	27.5	20	9.0	10.6	132	10000	230
AUG												
07...	1515	380	88	8.7	25.0	27.5	20	4.0	8.8	110	80000	400
SEP												
20...	1045	322	104	7.0	16.0	18.0	32	3.0	9.5	100	22000	80

DATE	STREP- TOCUCCI 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	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT												
17...	28	28	10	8.2	1.9	11	43	.9	--	2.5	18	--
NOV												
17...	29	30	13	8.8	2.0	12	44	1.0	--	2.4	17	--
DEC												
12...	220	20	9	5.6	1.4	8.3	45	.8	--	1.8	11	--
JAN												
11...	260	17	8	4.8	1.3	6.8	44	.7	--	1.3	9	--
FEB												
14...	340	21	11	5.9	1.4	7.5	42	.7	--	1.5	10	--
MAR												
13...	92	15	8	4.1	1.2	5.7	43	.6	--	1.2	7	--
APR												
12...	130	19	10	5.3	1.3	7.6	45	.8	--	1.5	9	--
MAY												
09...	22	19	7	5.6	1.3	7.8	45	.8	--	1.4	12	--
JUN												
12...	220	20	4	6.0	1.3	7.4	42	.7	--	1.2	16	--
JUL												
17...	860	27	5	8.0	1.8	10	43	.8	12	1.6	22	.1
AUG												
07...	260	22	8	6.6	1.4	8.0	42	.7	9.4	1.4	14	.1
SEP												
20...	150	24	11	7.0	1.6	10	45	.9	12	1.8	13	2.5

< 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 1978 TO SEPTEMBER 1979

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 17...	14	15	.1	5.5	81	69	.11	99.5	91	.43	--	.04
NOV 17...	14	15	.1	5.1	84	70	.11	57.6	89	.52	--	.09
DEC 12...	11	13	.1	7.2	67	55	.09	342	71	.34	--	.10
JAN 11...	9.2	11	.0	6.2	54	46	.07	722	60	.34	--	.04
FEB 14...	11	12	.1	7.6	61	53	.08	219	67	.58	--	.13
MAR 13...	8.3	9.0	.1	5.9	51	40	.07	636	59	.35	--	.07
APR 12...	9.3	11	.1	5.1	57	47	.08	345	63	.39	--	.04
MAY 09...	10	11	.1	4.3	58	49	.08	263	60	.36	--	.05
JUN 12...	10	9.9	.1	5.8	65	51	.09	204	78	.47	--	.08
JUL 17...	12	14	.1	5.4	83	66	.11	45.5	--	.00	--	.00
AUG 07...	10	10	.1	4.5	66	51	.09	67.7	81	.08	--	.02
SEP 20...	10	13	.1	5.3	70	58	.10	60.9	79	.44	.41	.07

DATE	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,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)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 17...	--	.34	.38	.00	.43	.81	--	3.6	.12	--	.22
NOV 17...	--	.43	.52	.16	.36	1.0	--	4.6	.14	--	.10
DEC 12...	--	.35	.45	.09	.36	.79	--	3.5	.07	--	.08
JAN 11...	--	.09	.13	.00	.17	.47	--	2.1	.04	--	.02
FEB 14...	--	.50	.63	.10	.53	1.2	--	5.4	.04	--	.03
MAR 13...	--	.34	.41	.05	.36	.76	--	3.4	.04	--	.02
APR 12...	--	.35	.39	.13	.26	.78	--	3.5	.05	--	.03
MAY 09...	.06	.36	.41	.02	.39	.77	--	3.4	.03	.09	.01
JUN 12...	.10	.87	.95	.40	.55	1.4	--	6.3	.33	1.0	.05
JUL 17...	.00	1.6	1.6	1.0	.58	1.6	--	7.1	.21	.64	.12
AUG 07...	.02	1.1	1.1	.65	.45	1.2	--	5.2	.14	.43	.07
SEP 20...	.08	.66	.73	.33	.40	1.2	.81	5.2	.12	.37	.07

THAMES RIVER BASIN

99

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC 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 CO)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CO)	CADMIUM DIS- SOLVED (UG/L AS CO)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	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)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 12...	1	1	0	0	0	1	0	1	<10	<8	2	0
JAN 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	2	1	0	0	0	7	0	7	30	30	0	1
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	2	2	100	100	0	1	0	1	20	10	10	0
JUN 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	1	1	0	0	20	0	0	0	20	10	10	1
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT 17...	--	--	--	--	6	--	--	--	--	--	--	--
NOV 17...	--	--	--	--	4	--	--	--	--	--	--	--
DEC 12...	0	0	4	0	4	500	310	190	3	0	3	40
JAN 11...	--	--	--	--	3	--	--	--	--	--	--	--
FEB 14...	--	--	--	--	3	--	--	--	--	--	--	--
MAR 13...	0	1	7	0	7	270	160	110	5	0	5	30
APR 12...	--	--	--	--	4	--	--	--	--	--	--	--
MAY 09...	0	0	6	2	4	590	350	240	5	3	2	50
JUN 12...	--	--	--	--	6	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	7	--	--	--	--	--	--	--
AUG 07...	1	0	9	1	8	640	370	270	10	7	3	70
SEP 20...	--	--	--	--	5	--	--	--	--	--	--	--

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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, 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)
OCT 17...	--	--	--	--	--	--	--	--	--	--
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 12...	10	30	<.5	.0	<.5	0	0	0	0	0
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 14...	--	--	--	--	--	--	--	--	--	--
MAR 13...	0	30	<.5	.0	<.5	0	0	0	0	0
APR 12...	--	--	--	--	--	--	--	--	--	--
MAY 09...	10	40	<.5	.0	<.5	0	0	0	0	0
JUN 12...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
AUG 07...	50	20	<.5	.0	<.5	0	0	0	0	0
SEP 20...	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	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 17...	--	--	20	5.2	--	--	--	--	--	--
NOV 17...	--	--	10	4.7	--	--	--	--	--	--
DEC 12...	40	30	10	10	9.4	.6	.00	2000	2.69	.780
JAN 11...	--	--	10	5.2	--	--	--	--	--	--
FEB 14...	--	--	20	3.2	--	--	--	--	--	--
MAR 13...	10	0	10	6.1	5.7	.4	.00	460	.000	.000
APR 12...	--	--	10	4.6	--	--	--	--	--	--
MAY 09...	20	10	10	10	9.2	1.4	.00	6300	8.79	.000
JUN 12...	--	--	3	6.7	--	--	--	--	--	--
JUL 17...	--	--	10	9.9	--	--	--	630000	--	--
AUG 07...	10	4	6	7.6	5.8	1.8	.00	140000	24.0	.000
SEP 20...	--	--	20	5.2	--	--	--	11000	--	--

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

THAMES RIVER BASIN

101

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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						APR					
17...	1545	455	6	7.4	100	12...	1045	2240	6	36	100
NOV						MAY					
17...	1020	254	6	4.1	100	09...	1015	1680	11	50	83
DEC						JUN					
12...	1030	1890	11	56	100	12...	1100	1160	19	60	59
JAN						JUL					
11...	1440	4950	5	67	100	17...	1415	203	14	7.7	72
FEB						AUG					
14...	1540	1330	4	14	100	07...	1515	380	11	11	45
MAR						SEP					
13...	1510	4620	10	125	100	20...	1045	322	4	3.5	100

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	DEC 12,78 1030	MAR 13,79 1510	MAY 9,79 1015	JUL 17,79 1415	AUG 7,79 1515	SEP 20,79 1045				
TOTAL CELLS/ML	2000	460	6300	630000	140000	11000				
DIVERSITY: DIVISION	1.5	0.8	0.9	0.0	0.2	1.1				
..CLASS	1.5	1.6	1.0	0.0	0.2	1.1				
...ORDER	1.7	1.8	1.6	0.9	0.9	1.7				
....FAMILY	2.7	2.6	2.1	1.0	1.0	1.9				
.....GENUS	3.3	0.0	0.0	1.0	1.0	2.0				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	*	0
....MICRACTINIACEAE										
....MICRACTINIUM	55	3	--	-	--	-	--	-	--	-
....NOCYSTACEAE										
....ANKISTRODESUS	42	2	--	-	740	12	--	-	340	3
....DICTYOSPHAERIUM	--	-	--	-	2300#	36	--	-	--	-
....FRANCEIA	--	-	--	-	130	2	--	-	--	-
....KIPCHNEPIELLA	--	-	--	-	--	-	--	-	56	1
....SELENASTRUM	--	-	--	-	34	1	--	-	170	2
....SCENEDESMACEAE	--	-	--	-	--	-	*	0	--	-
....CRUCIGENIA	--	-	--	-	300	5	--	-	--	-
....SCENEDESMUS	--	-	--	-	340	5	--	-	--	-
....TETRASTRUM	55	3	--	-	270	4	--	-	1300	12
..VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	43	9	570	9	--	-	--	-
....CHLAMYDOMONAS	28	1	72#	16	--	-	--	-	140	1
...CHLOROGONIUM	--	-	--	-	34	1	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	14	1	--	-	--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCEACEAE										
....CYCLOTELLA	42	2	--	-	840	13	--	-	170	2
....MELOSIRA	--	-	29	6	200	3	--	-	530	5
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	120	6	58	13	--	-	--	-	56	1
....COCCONEIS	14	1	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	--	-	14	3	--	-	--	-	*	0
...EUNOTIACEAE										
....EUNOTIA	14	1	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	28	1	--	-	300	5	--	-	--	-
...SYNEDRA	69	4	29	6	100	2	--	-	--	-
...GOMPHONEMACEAE										
....GOMPHONEMA	83	4	29	6	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	210	11	14	3	34	1	--	-	*	0
...PINNULARIA	28	1	14	3	--	-	--	-	--	-
...NITZSCHACEAE										
....NITZSCHIA	55	3	--	-	--	-	--	-	110	1
..CHRYSOPHYCEAE										
...CHRYSOMONADALES										
....MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	100	2	--	-	--	-
...OCHROMONADACEAE										
....DINORRYON	--	-	87#	19	34	1	--	-	--	-
....OCHROMONAS	14	1	72#	16	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	34	1	--	-	--	-

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

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

THAMES RIVER BASIN

103

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	DEC 12, 78 1030		MAR 13, 79 1510		MAY 9, 79 1015		JUL 17, 79 1415		AUG 7, 79 1415		SEP 20, 79 1045	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...ANACYSTIS	--	-	--	-	--	-	430000#	69	110000#	76	1300	12
...HORMOGONALES												
...NOSTOCACEAE												
...ANABAENA	--	-	--	-	--	-	11000	2	--	-	--	-
...APHANIZOMENON	--	-	--	-	--	-	--	-	--	-	6600#	61
...OSCILLATORIA												
...LYNGBYA	650#	33	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIA	330#	17	--	-	--	-	180000#	29	25000#	20	--	-
...RIVULARIACEAE												
...RAPHIIDIOPSIS	69	4	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...TRACHELOMONAS	42	2	--	-	--	-	--	-	--	-	--	-

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	126	124	125	---	---	---	---	---	---
2	---	---	---	127	124	125	---	---	---	---	---	---
3	---	---	---	130	124	127	---	---	---	---	---	---
4	150	142	146	133	127	130	---	---	---	---	---	---
5	149	142	145	135	131	133	---	---	---	---	---	---
6	143	139	141	136	133	134	---	---	---	---	---	---
7	144	140	142	135	132	133	---	---	---	---	---	---
8	141	137	139	134	130	132	---	---	---	---	---	---
9	141	134	137	137	130	133	---	---	---	---	---	---
10	139	131	136	136	132	134	---	---	---	---	---	---
11	142	134	137	136	132	134	---	---	---	---	---	---
12	137	130	133	135	133	134	106	92	95	88	85	86
13	140	130	134	135	131	134	102	95	98	---	---	---
14	140	131	136	137	133	142	106	103	105	---	---	---
15	143	132	138	139	134	137	105	103	104	---	---	---
16	138	132	134	138	132	135	107	104	105	---	---	---
17	134	131	132	137	125	131	110	106	107	---	---	---
18	133	126	129	134	125	129	108	106	107	---	---	---
19	129	125	127	128	123	125	109	105	107	---	---	---
20	133	127	130	123	119	121	112	108	110	---	---	---
21	133	125	129	119	114	117	123	114	120	---	---	---
22	138	128	132	116	113	114	120	114	117	---	---	---
23	139	131	135	118	113	115	119	113	115	---	---	---
24	137	131	133	119	115	117	116	114	115	---	---	---
25	132	129	131	121	116	118	124	114	118	---	---	---
26	137	133	135	121	118	119	---	---	---	---	---	---
27	135	128	131	119	117	118	---	---	---	---	---	---
28	133	128	130	124	118	121	101	98	100	---	---	---
29	134	131	132	124	110	121	117	108	112	---	---	---
30	134	130	131	---	---	---	---	---	---	---	---	---
31	130	126	127	---	---	---	---	---	---	---	---	---
MONTH	150	125	134	157	110	127	124	92	108	88	85	86
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	96	82	94
10	---	---	---	---	---	---	---	---	---	100	94	96
11	---	---	---	---	---	---	---	---	---	100	96	98
12	---	---	---	---	---	---	---	---	---	103	97	100
13	---	---	---	---	---	---	---	---	---	101	96	99
14	---	---	---	---	---	---	---	---	---	97	94	95
15	---	---	---	76	71	74	---	---	---	99	92	94
16	---	---	---	70	70	67	---	---	---	95	90	92
17	---	---	---	68	63	66	---	---	---	93	90	92
18	---	---	---	73	67	70	---	---	---	99	91	93
19	---	---	---	73	69	71	---	---	---	97	93	94
20	---	---	---	---	---	---	---	---	---	93	90	91
21	---	---	---	---	---	---	---	---	---	94	90	91
22	---	---	---	---	---	---	---	---	---	95	91	92
23	---	---	---	---	---	---	---	---	---	98	86	94
24	---	---	---	---	---	---	---	---	---	85	81	83
25	---	---	---	---	---	---	---	---	---	81	76	77
26	---	---	---	---	---	---	---	---	---	78	72	75
27	---	---	---	---	---	---	---	---	---	73	69	71
28	---	---	---	---	---	---	---	---	---	73	71	72
29	---	---	---	---	---	---	---	---	---	75	72	73
30	---	---	---	---	---	---	---	---	---	74	72	73
31	---	---	---	---	---	---	---	---	---	74	72	73
MONTH	---	---	---	76	63	70	---	---	---	103	69	87

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	73	71	72	94	94	94	123	110	117	122	120	121
2	75	72	73	95	91	94	123	110	118	121	118	119
3	77	73	75	96	94	95	125	100	119	119	116	117
4	78	76	77	95	94	94	121	96	114	120	116	117
5	77	74	76	94	92	93	114	111	113	117	116	116
6	79	75	76	94	92	93	113	107	111	117	112	114
7	77	75	76	95	92	93	106	85	96	116	113	114
8	84	78	80	96	93	94	86	82	85	115	114	114
9	85	81	83	98	94	96	91	84	86	116	112	114
10	87	83	85	97	95	96	101	92	96	113	112	112
11	90	81	86	95	91	93	118	103	111	113	111	112
12	94	83	87	93	90	92	130	119	125	112	110	111
13	87	82	84	96	90	93	130	89	107	110	108	109
14	92	85	88	100	96	98	88	84	86	110	108	109
15	94	90	92	101	98	100	90	84	87	110	107	108
16	100	95	98	101	96	99	100	89	95	107	106	107
17	100	95	98	104	100	102	106	101	104	110	106	107
18	101	97	99	105	102	103	108	105	106	108	106	107
19	105	97	101	105	97	102	106	103	105	108	102	107
20	102	95	99	107	104	105	108	106	107	105	103	104
21	99	97	98	111	105	108	110	104	108	106	103	105
22	98	85	92	113	108	110	115	110	112	105	99	102
23	93	89	92	112	110	111	117	112	114	101	92	98
24	91	88	89	114	101	111	121	117	119	94	90	92
25	94	88	92	115	107	112	120	116	118	91	90	91
26	93	92	93	116	109	113	125	118	122	91	89	90
27	92	91	92	116	106	112	129	125	127	---	---	---
28	93	90	92	119	115	117	132	128	130	---	---	---
29	94	91	92	120	112	117	131	128	130	---	---	---
30	94	92	93	118	110	116	128	121	123	---	---	---
31	---	---	---	118	110	115	123	121	122	---	---	---
MONTH	105	71	88	120	90	102	132	82	110	122	89	108

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---				---	---	---
2				---	---	---				---	---	---
3				---	---	---				---	---	---
4				---	---	---				---	---	---
5				---	---	---				---	---	---
6				---	---	---				---	---	---
7				---	---	---				---	---	---
8				---	---	---				---	---	---
9				---	---	---				20.0	19.0	19.5
10				---	---	---				22.5	20.0	21.0
11				---	---	---				24.0	21.5	22.5
12				---	---	---				22.0	20.5	21.5
13				---	---	---				20.5	19.0	19.5
14				---	---	---				19.0	18.5	19.0
15				4.0	3.0	3.5				18.5	18.0	18.5
16				4.5	4.0	3.5				19.0	18.0	18.5
17				3.5	3.0	3.0				19.5	18.5	19.0
18				3.5	3.0	3.5				19.0	18.0	18.5
19				4.0	3.5	4.0				18.0	17.5	18.0
20				---	---	---				17.5	16.5	17.0
21				---	---	---				17.5	16.5	17.0
22				---	---	---				19.0	17.0	17.5
23				---	---	---				18.0	18.0	18.0
24				---	---	---				18.0	16.0	17.0
25				---	---	---				16.0	15.5	16.0
26				---	---	---				16.5	15.5	16.0
27				---	---	---				16.5	16.0	16.5
28				---	---	---				16.5	16.5	16.5
29				---	---	---				17.0	16.0	16.0
30				---	---	---				18.0	17.0	17.5
31				---	---	---				18.0	17.0	17.5
MONTH				4.5	3.0	3.5				24.0	15.5	18.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.0	17.5	18.0	24.0	22.0	23.0	29.0	26.0	27.0	25.0	24.0	24.5
2	19.5	19.0	19.0	23.5	22.5	23.0	29.0	27.0	27.5	24.5	24.0	24.0
3	19.5	19.0	19.0	25.5	21.5	23.5	28.0	26.5	27.0	24.5	24.0	24.0
4	18.5	18.5	18.5	23.5	20.5	22.0	27.5	24.5	26.0	26.5	24.0	24.5
5	19.5	18.5	18.5	23.5	20.0	21.0	28.0	26.0	26.5	25.5	24.0	24.5
6	20.5	19.0	19.5	23.0	19.5	21.0	27.5	25.5	26.5	24.5	24.0	24.5
7	20.5	19.5	20.0	24.0	19.0	21.0	27.5	24.0	25.5	26.0	23.5	24.5
8	21.0	20.5	20.5	24.5	18.5	20.5	27.0	25.0	26.0	24.0	22.5	23.5
9	20.5	20.0	20.0	24.0	19.0	20.5	28.0	24.5	25.5	24.0	21.5	22.0
10	21.5	20.5	20.5	23.5	19.5	21.5	26.0	24.5	25.0	22.0	20.5	21.0
11	22.5	21.5	22.0	25.0	21.5	23.0	24.5	23.0	24.0	23.5	20.0	21.0
12	23.5	21.5	22.0	26.5	22.0	24.0	23.5	20.0	22.0	22.5	19.5	20.5
13	21.5	20.0	20.5	28.0	23.0	25.0	20.0	18.5	19.0	22.5	19.5	20.5
14	21.5	19.0	20.0	27.5	22.5	24.5	18.5	18.0	18.5	22.0	20.0	21.0
15	21.0	19.0	20.0	28.0	24.0	26.0	19.0	18.0	18.5	23.5	20.5	21.5
16	22.5	20.5	21.5	29.0	25.5	26.5	20.0	18.0	19.0	22.5	19.5	20.5
17	23.5	21.5	22.5	29.5	25.5	26.5	20.0	18.0	19.0	23.5	19.5	20.5
18	25.0	23.5	24.0	27.5	24.5	26.0	19.0	18.5	18.5	22.0	19.0	20.0
19	24.5	23.0	23.5	29.0	24.0	25.5	19.0	18.5	18.5	22.5	18.5	20.0
20	25.5	22.5	23.5	27.5	24.5	25.5	20.5	18.5	19.5	21.0	16.5	18.5
21	24.5	21.5	22.5	26.5	24.0	25.0	21.5	19.0	19.5	18.5	17.5	18.0
22	23.0	21.0	22.0	27.0	24.0	25.0	24.0	20.0	21.0	18.5	17.0	18.0
23	23.5	21.5	22.5	28.0	24.0	25.5	22.0	20.5	21.0	17.5	16.5	17.0
24	24.0	21.0	22.5	28.0	24.5	25.5	23.0	21.0	22.0	17.5	16.0	16.5
25	23.5	20.5	22.0	28.5	25.5	26.5	23.5	22.0	23.0	17.0	15.5	16.0
26	23.5	19.5	21.0	28.0	26.0	26.5	25.5	23.0	23.5	17.0	15.0	16.0
27	23.5	19.0	20.5	30.0	26.0	27.5	24.0	23.5	23.5	18.0	15.0	16.0
28	23.0	20.0	21.0	29.0	26.0	27.0	25.0	23.5	24.0	16.5	15.0	15.5
29	23.5	20.0	21.5	30.0	25.5	27.5	25.0	24.0	24.5	18.0	15.5	16.5
30	23.5	21.0	22.0	30.0	26.0	27.0	25.0	24.0	24.5	17.0	16.0	16.5
31	---	---	---	28.5	26.0	27.0	26.5	24.5	25.0	---	---	---
MONTH	25.5	17.5	21.0	30.0	18.5	24.5	29.0	18.0	23.0	26.5	15.0	20.0

THAMES RIVER BASIN

107

01127140 QUINEBAUG RIVER AT TAFTVILLE, CT

LOCATION.--Lat 41°33'19", long 72°02'28", New London County, Hydrologic Unit 01100001, at Tunnel Dam, 1.0 mi (1.6 km) south of Taftville, 0.3 mi (0.5 km) upstream from Shetucket River, and 6 mi (10 km) downstream from Pachaug River.

DRAINAGE AREA.--744 mi² (1,927 km²).

PERIOD OF RECORD.--Water year 1975 to April 1979 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1975 to April 1979 (discontinued).

WATER TEMPERATURES: January 1975 to April 1979 (discontinued).

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 229 micromhos Jul. 23, 1978; minimum, 59 micromhos January 27, 28, 1978.

WATER TEMPERATURES: Maximum, 31.5°C July 19-20, 1977; minimum, 0.0°C Feb. 4, 5, 1975, and many days during winter periods for 1976-1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 154 micromhos Oct. 4; minimum, 67 micromhos January 26, 27.

WATER TEMPERATURES: Maximum, 18.5°C Oct. 2; minimum, 0.0°C at times during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	147	141	143	125	122	124	116	112	114	119	113	115
2	143	139	140	123	122	123	115	114	114	120	110	116
3	146	140	144	125	123	124	114	111	113	111	81	94
4	154	146	150	128	124	126	117	112	114	82	80	81
5	151	149	150	131	127	130	117	114	115	87	82	84
6	152	143	147	133	131	132	117	112	114	90	87	88
7	152	146	150	133	132	132	113	109	111	97	91	94
8	150	142	145	133	131	132	113	109	111	97	82	90
9	143	135	139	133	129	131	113	107	111	81	77	78
10	138	135	137	132	129	131	109	95	102	79	77	78
11	135	132	133	131	130	130	96	93	94	84	79	82
12	133	131	132	130	129	130	96	95	96	89	77	84
13	133	131	132	130	129	129	96	95	96	92	89	91
14	135	123	130	131	128	130	99	96	97	90	80	86
15	126	123	125	133	130	132	101	99	100	83	79	81
16	128	126	127	133	130	132	103	100	101	88	83	86
17	130	128	129	134	130	132	106	102	104	95	89	93
18	130	127	129	133	123	129	105	103	104	99	94	97
19	128	127	128	126	122	124	108	103	104	99	94	96
20	130	128	129	128	125	126	109	104	106	102	98	100
21	132	130	131	128	119	124	110	106	108	102	86	95
22	133	131	133	119	112	116	111	105	107	86	71	75
23	136	133	135	112	110	112	110	107	109	81	72	77
24	137	134	135	114	111	112	113	109	111	92	82	87
25	136	134	135	114	111	112	111	108	109	92	69	82
26	138	135	136	117	114	116	113	108	110	69	67	68
27	138	128	133	119	116	117	112	109	110	71	67	69
28	133	129	131	119	114	116	110	104	107	81	72	78
29	134	133	134	116	113	115	107	103	106	85	82	83
30	134	130	132	117	111	113	109	106	107	86	83	84
31	130	124	127	---	---	---	120	110	112	89	87	88
MONTH	154	123	136	134	110	124	120	93	107	120	67	87

THAMES RIVER BASIN

01127140 QUINEBAUG RIVER AT TAFTVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	88	88	88									
2	90	88	89									
3	92	84	89									
4	94	91	93									
5	95	90	93									
6	98	86	93									
7	102	99	100									
8	104	99	102									
9	104	97	103									
10	109	105	107									
11	112	108	111									
12	113	108	112									
13	122	111	117									
14	119	110	118									
15	122	108	129									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	122	84	103									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

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.--49 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, 2.5 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)
Jan. 3	0600	2010 56.9	7.43 2.265	Feb. 26	1400	2690 76.2	8.49 2.588
8	1500	2840 80.4	8.70 2.652	Mar. 7	0700	2690 76.2	8.48 2.585
14	0600	2370 67.1	8.03 2.448	Apr. 27	2200	1240 35.1	5.98 1.823
21	1700	*6240 177	*12.64 3.853	May 25	1200	1360 38.5	6.21 1.893
25	0900	6020 170	12.42 3.786				

Minimum discharge, 7.5 ft³/s (0.212 m³/s) July 24, gage height, 1.10 ft (0.335 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	57	190	238	373	448	108	340	149	22	11	32
2	61	52	146	791	321	367	118	240	122	25	10	24
3	42	49	119	1650	281	321	247	198	108	22	9.5	21
4	34	46	170	742	207	296	213	243	128	20	44	20
5	32	45	256	399	175	304	215	209	144	18	20	18
6	209	44	201	277	158	1130	183	163	161	15	15	51
7	199	43	146	258	114	2300	141	141	125	15	13	92
8	118	41	122	2100	105	1180	109	124	99	14	14	55
9	71	40	487	1500	100	710	156	114	84	16	11	32
10	53	38	742	710	97	525	270	104	76	15	15	24
11	45	37	390	441	93	661	209	84	64	15	25	22
12	41	36	245	309	89	561	153	70	55	15	175	20
13	38	35	205	335	85	387	125	100	43	14	384	16
14	125	35	201	1870	83	359	160	127	38	14	203	18
15	179	34	170	1010	80	332	243	199	33	14	91	21
16	118	35	149	546	78	247	256	156	30	16	46	18
17	83	37	167	356	75	225	223	109	26	16	32	15
18	64	141	158	311	73	209	175	94	26	16	30	14
19	57	138	179	311	72	192	143	94	37	15	41	13
20	56	95	179	267	71	181	116	91	28	14	41	12
21	52	74	207	3650	70	167	107	91	24	11	34	12
22	49	65	234	3570	90	158	100	71	21	8.9	28	213
23	46	61	175	1310	200	149	90	135	22	8.2	25	251
24	41	100	138	850	558	139	87	738	18	7.7	22	122
25	40	115	329	4890	846	154	76	992	15	8.0	21	63
26	41	86	381	2460	1640	144	86	778	14	8.4	19	45
27	154	63	263	1320	1230	124	873	429	12	12	18	36
28	136	83	184	919	625	109	988	284	12	13	18	34
29	97	91	168	680	---	109	594	274	11	14	18	32
30	75	181	121	525	---	111	487	211	12	13	24	32
31	63	---	122	420	---	111	---	186	---	12	37	---
TOTAL	2456	1997	6944	35015	7989	12410	7051	7189	1737	447.2	1494.5	1378
MEAN	79.2	66.6	224	1130	285	400	235	232	57.9	14.4	48.2	45.9
MAX	209	181	742	4890	1640	2300	988	992	161	25	384	251
MIN	32	34	119	238	70	109	76	70	11	7.7	9.5	12
CFSM	.88	.74	2.49	12.6	3.17	4.44	2.61	2.58	.64	.16	.54	.51
IN.	1.02	.83	2.87	14.47	3.30	5.13	2.91	2.97	.72	.18	.62	.57
CAL YR 1978 TOTAL	78471.0		MEAN 215	MAX 4450	MIN 12	CFSM 2.39	IN 32.43					
WTR YR 1979 TOTAL	86107.7		MEAN 236	MAX 4890	MIN 7.7	CFSM 2.62	IN 35.59					

THAMES RIVER BASIN

111

01127500 YANTIC RIVER AT YANTIC, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1968 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1975 to current year.

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, 157 mg/L Jan. 09, 1978; minimum daily mean, 0 mg/L Oct. 22, 27, 31, 1976.

SEDIMENT LOADS: Maximum daily, 1730 tons (1569 Mg) Jan. 25, 1979; minimum daily, 0 ton (0 Mg) Oct. 22, 27, 31, 1976.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 129 mg/L Jan. 25; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 1730 tons (1569 Mg) Jan. 25; minimum daily, .04 ton (.04 Mg) Jul. 11, 14, 16, 23, 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COHALT 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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
20...	1050	57	108	6.3	11.0	9.0	50	1.0	10.7	92	2200	34
NOV												
15...	1000	34	117	6.6	10.0	8.0	30	4.0	11.9	100	3400	48
DEC												
11...	1045	382	79	7.1	-3.0	1.0	50	1.0	13.7	96	3400	500
JAN												
16...	1000	541	68	6.4	-1.5	.5	5	2.0	15.6	108	1400	46
FEB												
13...	1030	235	86	6.3	<-5.0	.5	10	1.0	13.8	96	260	28
MAR												
14...	1040	352	74	6.5	13.0	4.0	20	1.0	12.4	94	420	56
APR												
10...	1020	285	82	7.0	5.5	5.0	15	2.0	12.7	99	3600	480
MAY												
10...	1000	111	83	6.8	33.0	22.0	20	2.0	9.2	104	6300	172
JUN												
14...	1000	38	95	6.8	20.5	17.0	20	1.0	9.5	98	19000	280
JUL												
17...	1545	16	94	6.7	28.5	27.0	10	1.0	10.2	126	20000	310
AUG												
08...	1430	15	115	9.0	29.0	25.0	11	1.0	12.2	145	30000	1500
SEP												
19...	1450	14	125	8.1	22.0	18.5	15	1.0	11.1	118	1500	60

DATE	TIME	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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													
20...	22	--	--	--	--	--	--	--	--	12	--	80	.11
NOV													
15...	80	--	--	--	--	--	--	--	--	14	--	78	.11
DEC													
11...	720	22	10	6.3	1.4	12	--	10	9.0	7.8	--	64	.09
JAN													
16...	110	--	--	--	--	--	--	--	6.8	--	--	48	.07
FEB													
13...	K11	--	--	--	--	--	--	--	9.6	--	--	62	.08
MAR													
14...	88	19	4	5.5	1.2	15	--	9.5	8.0	6.5	--	50	.07
APR													
10...	500	--	--	--	--	--	--	--	8.5	--	--	58	.08
MAY													
10...	80	21	8	6.3	1.2	13	--	8.3	9.9	4.5	--	56	.08
JUN													
14...	240	--	--	--	--	--	--	--	11	--	--	73	.10
JUL													
17...	440	--	--	--	--	--	--	--	15	--	--	77	.10
AUG													
08...	250	32	11	9.7	1.8	21	.0	1.6	17	3.3	--	73	.10
SEP													
19...	47	--	--	--	--	--	--	--	16	--	--	82	.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)

THAMES RIVER BASIN

01127500 YANTIC RIVER AT YANTIC, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DISSOLVED (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 20...	12.3	79	--	--	.33	.01	--	.31	.32	.65	2.9
NOV 15...	7.16	76	--	--	.53	.01	--	.20	.21	.74	3.3
DEC 11...	66.0	68	--	--	.45	.03	--	.34	.37	.82	3.6
JAN 16...	70.1	54	--	--	.61	.05	--	.19	.24	.85	3.8
FEB 13...	39.3	65	--	--	.79	.04	--	.00	.00	.79	3.5
MAR 14...	47.5	56	--	--	.70	.07	--	.15	.22	.92	4.1
APR 10...	44.6	61	--	--	.69	.06	--	.20	.26	.95	4.2
MAY 10...	16.8	56	--	--	.34	.05	.06	.32	.37	.71	3.1
JUN 14...	7.49	75	--	--	.57	.09	.11	.32	.41	.98	4.3
JUL 17...	3.33	80	--	--	.34	.00	.00	.30	.30	.64	2.8
AUG 08...	2.96	93	--	--	.55	.32	.39	.53	.85	1.4	6.2
SEP 19...	3.10	93	.37	.00	.37	.03	.04	.37	.40	.77	3.4

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGA- NESE, DISSOLVED (UG/L AS MN)	ZINC, DISSOLVED (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 20...	.01	--	1	--	--	10	6.0	.00	--	--
NOV 15...	.00	--	0	--	--	0	4.8	--	--	--
DEC 11...	.02	--	0	140	20	10	13	.00	.740	.000
JAN 16...	.02	--	1	--	--	0	3.2	--	--	--
FEB 13...	.01	--	1	--	--	0	5.4	--	--	--
MAR 14...	.02	--	5	70	20	10	5.2	.00	.000	.000
APR 10...	.02	--	2	--	--	0	5.9	--	--	--
MAY 10...	.13	.40	3	190	20	10	.0	.00	2.04	.000
JUN 14...	.03	.09	4	--	--	10	7.0	--	--	--
JUL 17...	.01	.03	1	--	--	0	5.6	--	--	--
AUG 08...	.06	.18	2	140	20	30	5.8	.00	21.6	.000
SEP 19...	.03	.09	3	--	--	0	4.2	--	--	--

THAMES RIVER BASIN

113

01127500 YANTIC RIVER AT YANTIC, 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)
OCTOBER				NOVEMBER			DECEMBER		
1	37	7	.94	57	4	.62	190	5	2.6
2	61	3	.49	52	5	.70	146	4	1.6
3	42	2	.23	49	5	.66	119	3	.96
4	34	3	.28	46	3	.37	170	8	4.4
5	32	3	.26	45	6	.73	256	11	7.5
6	209	17	12	44	5	.59	201	5	2.7
7	199	9	4.8	43	5	.58	146	4	1.6
8	118	5	1.6	41	3	.33	122	5	1.6
9	71	3	.58	40	5	.54	487	22	34
10	53	1	.14	38	6	.62	742	13	27
11	45	2	.24	37	3	.30	390	5	5.3
12	41	2	.22	36	2	.19	245	5	3.3
13	38	1	.10	35	5	.47	205	3	1.7
14	125	9	2.0	35	5	.47	201	3	1.6
15	179	4	1.9	34	3	.28	170	4	1.8
16	118	2	.64	35	3	.28	149	4	1.6
17	83	1	.22	37	6	.60	167	5	2.3
18	64	1	.17	141	11	4.1	158	7	3.0
19	57	1	.15	138	4	1.5	179	8	3.9
20	56	1	.15	95	1	.26	179	8	3.9
21	52	1	.14	74	3	.60	207	6	3.4
22	49	1	.13	65	3	.53	234	5	3.2
23	46	1	.12	61	5	.82	175	3	1.4
24	41	1	.11	100	5	1.4	138	3	1.1
25	40	1	.11	115	1	.31	329	87	101
26	41	1	.11	86	5	1.2	381	88	91
27	154	8	3.3	63	1	.17	263	27	19
28	136	5	1.8	83	3	.67	184	8	4.0
29	97	3	.79	91	3	.74	168	6	2.7
30	75	3	.61	181	7	3.4	121	4	1.3
31	63	2	.34	---	---	---	122	3	.99
TOTAL	2456	---	34.67	1997	---	24.03	6944	---	341.45
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	238	21	14	373	6	6.0	448	2	2.4
2	791	57	181	321	8	6.9	367	2	2.0
3	1650	100	453	281	14	11	321	3	2.6
4	742	14	29	207	8	4.5	296	2	1.6
5	399	4	4.3	175	8	3.8	304	1	.82
6	277	3	2.2	158	16	6.8	1130	43	193
7	258	6	4.8	114	5	1.5	2300	22	147
8	2100	53	268	105	4	1.1	1180	5	16
9	1500	6	24	100	4	1.1	710	2	3.8
10	710	4	7.7	97	4	1.0	525	2	2.8
11	441	5	6.0	93	4	1.0	661	5	9.0
12	309	4	3.3	89	4	.96	561	2	3.0
13	335	9	9.3	85	4	.92	387	1	1.0
14	1870	24	120	83	4	.90	359	3	2.9
15	1010	5	14	80	4	.86	332	3	2.7
16	546	5	7.4	78	4	.84	247	1	.67
17	356	3	2.9	75	4	.81	225	2	1.2
18	311	2	1.7	73	3	.59	209	3	1.7
19	311	4	3.1	72	3	.58	192	1	.52
20	267	2	1.4	71	4	.77	181	1	.49
21	3650	108	1280	70	4	.76	167	1	.45
22	3570	50	549	90	4	.97	158	1	.43
23	1310	7	25	200	4	2.2	149	1	.40
24	850	4	9.2	558	38	78	139	2	.75
25	4890	129	1730	846	29	67	154	2	.83
26	2460	26	182	1640	38	188	144	4	1.6
27	1320	5	18	1230	8	29	124	2	.67
28	919	3	7.4	625	4	6.8	109	2	.59
29	680	2	3.7	---	---	---	109	2	.59
30	525	4	5.7	---	---	---	111	2	.60
31	420	9	10	---	---	---	111	2	.60
TOTAL	35015	---	4977.1	7989	---	424.66	12410	---	402.71

01127500 YANTIC RIVER AT YANTIC, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--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	108	2	.58	340	4	3.7	149	4	1.6
2	118	4	1.7	240	3	1.9	122	3	.99
3	247	6	4.2	198	3	1.6	108	3	.87
4	213	2	1.2	243	4	2.6	128	3	1.0
5	215	3	1.7	209	3	1.7	144	4	1.6
6	183	2	.99	163	2	.88	161	3	1.3
7	141	2	.76	141	2	.76	125	4	1.4
8	109	3	.88	124	2	.67	99	2	.53
9	156	4	1.7	114	2	.62	84	3	.68
10	270	3	2.2	104	2	.56	76	3	.62
11	209	3	1.7	84	2	.45	64	2	.35
12	153	3	1.2	70	3	.57	55	3	.45
13	125	4	1.4	100	3	.81	43	4	.46
14	160	5	2.7	127	5	1.8	38	2	.21
15	243	3	2.0	199	7	3.6	33	2	.18
16	256	2	1.4	156	4	1.7	30	2	.16
17	223	3	1.8	109	3	.88	26	2	.14
18	175	3	1.4	94	5	1.3	26	3	.23
19	143	3	1.2	94	3	.76	37	3	.29
20	116	3	.94	91	4	.98	28	1	.08
21	107	2	.58	91	2	.49	24	3	.19
22	100	2	.54	71	2	.38	21	3	.17
23	90	2	.49	135	18	8.8	22	3	.18
24	87	3	.70	738	23	44	18	3	.15
25	76	3	.62	992	22	67	15	3	.12
26	86	4	.93	778	10	22	14	3	.11
27	873	29	62	429	5	5.8	12	3	.10
28	988	13	38	284	6	4.6	12	3	.10
29	594	4	6.4	274	6	4.4	11	3	.09
30	487	5	6.6	211	6	3.4	12	3	.10
31	---	---	---	186	6	3.0	---	---	---
TOTAL	7051	---	148.51	7189	---	191.71	1737	---	14.45
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	22	1	.06	11	5	.15	32	4	.35
2	25	1	.07	10	4	.11	24	4	.26
3	22	2	.12	9.5	5	.19	21	4	.23
4	20	3	.16	44	9	1.4	20	4	.22
5	18	2	.10	20	3	.16	18	4	.19
6	15	3	.12	15	2	.08	51	11	2.4
7	15	2	.08	13	2	.07	92	9	2.2
8	14	2	.08	14	5	.19	55	5	.74
9	16	3	.13	11	5	.15	32	3	.26
10	15	2	.08	15	10	.60	24	3	.19
11	15	1	.04	25	5	.36	22	2	.12
12	15	2	.08	175	27	14	20	3	.16
13	14	2	.08	384	17	19	16	2	.09
14	14	1	.04	203	8	4.4	18	5	.24
15	14	2	.08	91	7	1.7	21	6	.34
16	16	1	.04	46	5	.62	18	6	.29
17	16	2	.09	32	4	.35	15	6	.24
18	16	2	.09	30	4	.32	14	5	.19
19	15	3	.12	41	3	.33	13	5	.18
20	14	2	.08	41	5	.55	12	4	.13
21	11	2	.06	34	3	.28	12	8	.30
22	8.9	2	.05	28	4	.30	213	27	12
23	8.2	2	.04	25	3	.20	251	7	4.7
24	7.7	3	.06	22	4	.24	122	10	3.3
25	8.0	2	.04	21	2	.11	63	10	1.7
26	8.4	3	.07	19	4	.21	45	9	1.1
27	12	4	.13	18	3	.15	36	7	.68
28	13	3	.11	18	5	.24	34	6	.55
29	14	3	.11	18	3	.15	32	6	.52
30	13	3	.11	24	4	.26	32	9	.78
31	12	4	.13	37	5	.50	---	---	---
TOTAL	447.2	---	2.65	1494.5	---	47.37	1378	---	34.65
YEAR	86107.7		6643.96						

THAMES RIVER BASIN

115

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 1978 TO SEPTEMBER 1979

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 (DEG C)	COLOR (PLAT- INUM- COBALI 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												
19...	1030	1.0	9450	7.3	5.0	17.0	11.5	40	1.0	9.2	84	20000
19...	1040	25	38400	8.0	25.0	17.0	15.0	40	4.0	5.6	55	400
NOV												
14...	1325	1.0	16700	7.6	10.0	19.0	10.5	20	1.0	8.8	79	14000
14...	1335	25	30400	8.0	19.0	19.0	12.5	5	2.0	5.4	50	260
DEC												
13...	1035	1.0	4500	7.2	3.0	11.0	1.5	50	1.0	13.6	97	28000
13...	1045	25	48000	8.1	32.0	11.0	8.0	5	1.0	8.2	69	460
JAN												
10...	1110	1.0	280	6.5	.0	-2.0	.0	20	2.0	15.0	103	6800
10...	1120	25	47000	7.9	31.0	-2.0	4.0	0	2.0	10.8	82	520
FEB												
15...	1330	1.0	7200	7.2	4.0	<-5.0	.0	10	1.0	14.0	96	1300
15...	1340	25	48000	8.1	32.0	<-5.0	1.0	5	4.0	10.9	77	190
MAR												
09...	1350	1.0	385	6.6	.0	10.0	4.0	25	1.0	13.6	103	2500
09...	1400	25	39000	8.1	25.0	10.0	2.0	10	15	9.7	70	520
APR												
11...	1045	1.0	5900	7.4	3.0	12.5	6.5	15	2.0	12.2	98	1300
11...	1055	25	39000	8.0	25.0	12.5	5.0	5	6.0	9.7	76	96
MAY												
08...	1305	1.0	5600	6.9	3.0	25.0	16.0	20	1.0	9.2	93	4800
08...	1315	25	39000	7.7	25.0	25.0	9.0	5	6.0	4.6	40	720
JUN												
13...	1010	2.0	5500	6.9	3.0	17.5	20.0	20	2.0	7.4	80	11000
13...	1020	25	29000	7.8	23.0	17.5	15.0	100	4.0	5.5	54	2700
JUL												
18...	0925	1.0	13000	8.1	5.0	24.0	25.0	10	1.0	8.4	100	4800
18...	0935	25	27000	7.7	19.0	24.0	20.0	5	1.0	1.0	7	440
AUG												
08...	1215	1.0	7800	8.9	5.0	29.0	26.0	15	4.0	11.0	134	2800
08...	1225	25	23800	7.3	15.0	29.0	21.0	5	6.0	2.0	22	5300
SEP												
19...	1310	1.0	8700	7.7	5.0	22.0	20.5	20	1.0	8.9	98	3000
19...	1320	20	33800	7.6	21.0	22.0	20.5	8	1.0	1.9	21	36

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

01127701 THAMES RIVER NEAR MOHEGAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)	CALCIUM DISE- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DISE- SOLVED (MG/L AS Mg)	ALKA- LINIT- Y (MG/L AS CaCO3)	CARBON DIOXIDE DISE- SOLVED (MG/L AS CO2)	SULFATE DISE- SOLVED (MG/L AS SO4)	CHLO- RIDE, DISE- SOLVED (MG/L AS CL)	SILICA, DISE- SOLVED (MG/L SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DISE- SOLVED (MG/L)
OCT												
19...	1000	20	--	--	--	--	--	--	--	2700	--	5270
19...	K8	K2	--	--	--	--	--	--	--	17000	--	28800
NOV												
14...	360	20	--	--	--	--	--	--	--	6200	--	12700
14...	18	43	--	--	--	--	--	--	--	14000	--	29800
DEC												
13...	2200	420	450	440	33	91	17	--	200	1400	6.9	2640
13...	28	59	4800	4700	310	980	96	--	2100	16000	.8	30900
JAN												
10...	820	210	--	--	--	--	--	--	--	61	--	153
10...	17	K13	--	--	--	--	--	--	--	14000	--	29700
FEB												
15...	420	120	--	--	--	--	--	--	--	2000	--	4020
15...	54	6000	--	--	--	--	--	--	--	14000	--	30600
MAR												
09...	620	140	41	30	5.5	6.6	11	--	20	94	5.4	214
09...	240	130	4800	4700	330	960	89	--	2100	17000	1.1	28900
APR												
11...	52	18	--	--	--	--	--	--	--	1300	--	2750
11...	K3	24	--	--	--	--	--	--	--	14000	--	28000
MAY												
08...	480	K10	490	480	33	100	16	--	200	1500	4.7	2640
08...	34	29	4800	4700	320	980	96	--	2100	15000	.9	29100
JUN												
13...	420	16	--	--	--	--	--	--	--	2000	--	3570
13...	51	17	--	--	--	--	--	--	--	14000	--	28800
JUL												
18...	190	K12	--	--	--	--	--	--	--	3400	--	6120
18...	K9	K6	--	--	--	--	--	--	--	15000	--	30400
AUG												
05...	280	K11	740	710	47	150	29	.1	260	1800	4.6	3870
05...	260	35	4800	4700	300	980	99	9.7	1700	13000	1.7	27100
SEP												
19...	800	K17	--	--	--	--	--	--	--	2300	--	4620
19...	32	K5	--	--	--	--	--	--	--	14000	--	29800
DATE	SOLIDS, DISE- SOLVED (TONS PER AC-F T)	SOLIDS, RESIDUE AT 180 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												
19...	7.17	5430	--	--	.43	.10	--	.46	.56	.99	4.4	
19...	39.2	30800	--	--	.12	.13	--	.20	.33	.45	2.0	
NOV												
14...	17.3	13400	--	--	.46	.05	--	.29	.34	.80	3.5	
14...	40.5	31400	--	--	.15	.22	--	.05	.27	.42	1.9	
DEC												
13...	3.59	2800	--	--	.34	.13	--	.39	.52	.86	3.8	
13...	42.0	33400	--	--	.11	.12	--	.22	.34	.45	2.0	
JAN												
10...	.21	160	--	--	.34	.07	--	.25	.32	.66	2.9	
10...	40.4	31800	--	--	.11	.17	--	.00	.09	.20	.89	
FEB												
15...	5.47	4210	--	--	.13	.15	--	.00	.08	.21	.93	
15...	41.6	32300	--	--	.16	.15	--	.31	.46	.62	2.7	
MAR												
09...	.29	227	--	--	.30	.09	--	.33	.42	.72	3.2	
09...	39.3	24300	--	--	.16	.20	--	.45	.65	.81	3.6	
APR												
11...	3.74	2970	--	--	.38	.06	--	.42	.48	.86	3.8	
11...	38.1	31400	--	--	.08	.20	--	.26	.46	.54	2.4	
MAY												
08...	3.59	2780	--	--	.28	.08	.10	.58	.66	.94	4.2	
08...	39.6	31100	--	--	.06	.24	.29	.66	.90	.96	4.3	
JUN												
13...	4.86	4230	--	--	.39	.11	.13	.44	.55	.94	4.2	
13...	39.2	29000	--	--	.09	.25	.30	.25	.50	.59	2.6	
JUL												
18...	8.32	6480	--	--	.12	.13	.16	.74	.87	.99	4.4	
18...	41.3	32800	--	--	.02	.14	.17	.29	.43	.45	2.0	
AUG												
08...	5.26	4280	--	--	.01	.07	.08	1.0	1.1	1.1	4.9	
08...	36.9	28000	--	--	.01	.76	.92	.54	1.3	1.3	5.8	
SEP												
19...	6.28	5030	.45	.01	.46	.62	.75	.23	.85	1.3	5.8	
19...	40.5	31800	.25	.01	.26	.08	.10	.26	.34	.60	2.7	

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

THAMES RIVER BASIN

117

01127701 THAMES RIVER NEAR MOHEGAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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										
19...	.10	--	4	--	--	20	6.0	.20	--	--
19...	.07	--	2	--	--	30	8.2	.80	--	--
NOV										
14...	.08	--	1	--	--	0	3.3	--	--	--
14...	.07	--	1	--	--	220	3.6	--	--	--
DEC										
13...	.07	--	0	140	40	10	5.7	.10	.000	.000
13...	.08	--	0	20	50	20	4.1	.80	1.76	.000
JAN										
10...	.05	--	2	--	--	20	5.2	--	--	--
10...	.07	--	1	--	--	20	4.0	--	--	--
FEB										
15...	.08	--	2	--	--	30	2.4	--	--	--
15...	.06	--	2	--	--	40	2.3	--	--	--
MAR										
09...	.04	--	0	100	40	0	5.4	.00	1.16	.000
09...	.11	--	0	60	50	20	7.3	.80	2.11	.000
APR										
11...	.03	--	4	--	--	0	4.4	--	--	--
11...	.04	--	3	--	--	20	3.6	--	--	--
MAY										
08...	.10	.31	3	170	50	10	5.1	.10	2.38	.000
08...	.12	.37	2	40	50	20	4.7	.70	4.26	.000
JUN										
13...	.07	.21	12	--	--	30	5.2	--	--	--
13...	.10	.31	3	--	--	50	3.2	--	--	--
JUL										
18...	.10	.31	4	--	--	30	6.5	--	--	--
18...	.07	.21	2	--	--	30	2.3	--	--	--
AUG										
08...	.16	.49	3	30	40	10	5.3	.20	34.9	.000
08...	.45	1.4	1	400	200	70	1.5	.80	3.91	.000
SEP										
19...	.12	.37	3	--	--	10	4.6	--	--	--
19...	.11	.34	2	--	--	20	1.4	--	--	--

THAMES RIVER BASIN

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), revised. 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 1978 TO SEPTEMBER 1979

Date	01119259 STAFFORDVILLE RESERVOIR	01121500 MANSFIELD HOLLOW LAKE	01123350 EAST BRIMFIELD LAKE	01123550 WESTVILLE LAKE
Sept. 30, 1978.....	44.7	62.5	102.7	4.9
Oct. 31.....	44.7	67.1	104.4	4.8
Nov. 30.....	49.8	67.1	106.0	5.0
Dec. 31.....	54.3	62.5	106.0	5.0
Jan. 31, 1979.....	75.5	682.6	352.2	85.4
Feb. 28.....	75.5	173.4	135.7	21.0
Mar. 31.....	75.5	90.6	112.6	6.0
Apr. 30.....	75.5	277.7	131.2	23.9
May 31.....	75.5	149.5	117.6	6.8
June 30.....	69.5	118.8	102.7	4.2
July 31.....	65.4	118.8	102.7	4.4
Aug. 31.....	63.7	153.8	114.3	6.0
Sept. 30.....	60.0	132.8	109.3	5.1

Date	01124150 WEST THOMPSON LAKE	01124300 HODGES VILLAGE RESERVOIR	01124400 BUFFUMVILLE LAKE
Sept. 30, 1978.....	59.6	1.0	62.7
Oct. 31.....	61.7	.5	66.2
Nov. 30.....	61.7	.7	64.5
Dec. 31.....	66.9	.6	65.3
Jan. 31, 1979.....	277.4	205.1	238.5
Feb. 28.....	166.8	35.0	85.5
Mar. 31.....	76.3	1.5	69.7
Apr. 30.....	76.3	36.0	87.7
May 31.....	80.5	7.5	71.4
June 30.....	53.3	.5	61.9
July 31.....	49.2	.5	67.1
Aug. 31.....	73.2	1.5	66.2
Sept. 30.....	70.1	.7	64.5

119

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 DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1969 to November 1977, July to September 1979.
pH: January 1969 to August 1976, July to September 1979.
WATER TEMPERATURES: January 1969 to November 1977, July to September 1979.
DISSOLVED OXYGEN: January 1969 to November 1977, July to September 1979.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, CT, (station 01184000) are used for this site. Continuous recorder not in operation November 1977 to June 1979.

SPECIFIC CONDUCTANCE: Maximum, 268 micromhos Feb. 3, 1973; minimum, 49 micromhos Apr. 23, 1969.
pH: Maximum, 9.7 units Aug. 9, 1970; minimum, 5.6 units June 1, 21, 1976.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 16, 1970; minimum, 0.0°C on several days during winter periods.
DISSOLVED OXYGEN: Maximum, 15.9 mg/L Feb. 17, 1971; minimum, 1.0 mg/L Aug. 20, 1971.

SPECIALS FOR PERIODS 6007-1060 (ENDER 1974)
SPECIFIC CONDUCTANCE: Maximum recorded, 155 micromhos Aug. 26; minimum recorded, 87 micromhos Sept. 9.
pH: Maximum recorded, 8.0 units Aug. 23; minimum recorded, 5.9 units July 21.
WATER TEMPERATURES: Maximum recorded, 30.5°C Aug. 5; minimum recorded 16.0°C Sept. 23-27.
DISSOLVED OXYGEN: Maximum recorded, 13.0 mg/L July 25; minimum recorded 4.3 mg/L Aug. 3.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- RID- ITY (JTU)	TUR- RID- 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 JM-MF (COLS./ 100 ML)
OCT 25...	0930	142	7.1	12.5	8	--	10.7	100	--	7500	--	600
DEC 05...	1300	134	6.8	4.5	3	--	12.5	96	--	--	1200	2100
MAR 15...	1445	63	5.8	2.0	5	--	13.7	99	13	--	2700	780
APR 11...	0830	69	6.6	5.0	--	2.0	12.7	99	18	12000	1100	380
MAY 08...	1130	84	5.8	16.0	--	20	9.5	95	20	--	15000	1700
JUN 05...	1145	78	6.1	19.0	--	2.0	9.1	97	1	81000	1500	2300
JUL 18...	1330	117	6.7	25.5	--	1.0	6.4	79	11	--	38000	5800
AUG 15...	0900	130	6.8	20.5	--	2.0	9.1	100	6	45000	8500	1500
SEP 11...	0900	115	7.0	22.5	--	1.0	9.5	109	9	--	20000	1900

[illegible]

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 25...	.27	.01	.28	.11	.60	.71	.99	.22	1	--	33.4	.000
DEC 05...	.46	.01	.47	.25	.37	.62	1.1	.09	--	0	2.48	.000
MAR 15...	.26	.00	.26	.05	.27	.32	.58	.03	--	0	.000	.000
APR 11...	.28	.00	.28	.07	.08	.15	.43	.02	0	0	.390	.000
MAY 08...	.30	.01	.31	.08	.36	.44	.75	.08	--	0	3.06	.000
JUN 05...	.20	.01	.21	.04	.19	.23	.44	.03	0	2	1.68	.000
JUL 18...	.30	.01	.31	.05	.42	.47	.78	.06	--	0	11.6	.000
AUG 15...	.31	.01	.32	.07	.46	.53	.85	.07	0	0	.780	.000
SEP 11...	.20	.01	.21	.10	.19	.29	.50	.06	--	0	6.77	.000

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FI)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT 25...	0	4	20	2	19	1800	40	90	<.5	0	40
APR 11...	0	6	10	1	2	330	44	40	.5	0	10

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/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)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDO, TOTAL (UG/L)
OCT 25...	1.0	2.7	2.3	2.1	2.2	2.1	.0	.00	.00	.0	.00
APR 11...	<.7	--	1.4	--	1.3	--	.0	.00	.00	.0	.00

DATE	DDF, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)
OCT 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
APR 11...	.00	.00	.00	.00	.00	.00	.00	.00	--	.00	0

CONNECTICUT RIVER BASIN

121

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1				---	---	---	134	128	131	122	114	119
2				---	---	---	143	118	130	130	116	124
3				---	---	---	135	119	128	132	123	128
4				---	---	---	142	133	138	139	124	131
5				---	---	---	140	132	135	129	122	127
6				---	---	---	141	136	138	134	117	125
7				---	---	---	143	137	140	116	107	111
8				---	---	---	145	138	141	109	100	106
9				---	---	---	152	141	145	105	87	96
10				---	---	---	147	144	146	110	105	107
11				---	---	---	---	---	---	125	109	117
12				---	---	---	---	---	---	127	117	122
13				---	---	---	---	---	---	121	113	118
14				---	---	---	---	---	---	121	112	118
15				---	---	---	130	127	128	121	114	118
16				---	---	---	---	---	---	131	114	123
17				---	---	---	---	---	---	136	125	130
18				---	---	---	---	---	---	134	121	127
19				---	---	---	---	---	---	135	121	128
20				125	120	124	---	---	---	135	128	132
21				133	120	123	---	---	---	140	124	134
22				133	123	129	---	---	---	141	114	128
23				134	129	132	137	130	132	113	103	107
24				134	123	126	145	133	140	115	105	110
25				143	134	137	144	136	139	121	104	113
26				140	126	136	155	141	145	128	112	118
27				144	124	133	144	129	138	118	106	113
28				134	124	130	133	126	130	132	119	127
29				135	125	130	135	130	133	135	112	122
30				135	128	131	133	124	131	116	105	109
31				134	128	131	135	121	129	---	---	---
MONTH				144	120	130	155	118	136	141	87	120
YFAR	155	87	127									
	JUNF			JULY			AUGUST			SEPTEMBER		
1				---	---	---	7.6	6.3	6.7	7.0	6.5	6.7
2				---	---	---	6.5	6.2	6.4	6.9	6.5	6.7
3				---	---	---	6.7	6.1	6.4	7.0	6.4	6.6
4				---	---	---	6.7	6.3	6.4	7.1	6.5	6.7
5				---	---	---	6.9	6.3	6.5	7.1	6.7	6.8
6				---	---	---	---	---	---	---	---	---
7				---	---	---	7.9	6.4	6.9	6.9	6.7	6.8
8				---	---	---	7.7	6.5	6.9	6.9	6.7	6.8
9				---	---	---	7.6	6.6	7.0	7.0	6.8	6.9
10				---	---	---	7.5	6.5	6.9	6.8	6.6	6.8
11				---	---	---	6.7	6.6	6.6	7.0	6.7	6.8
12				---	---	---	---	---	---	7.3	6.6	6.8
13				---	---	---	---	---	---	7.1	6.6	6.8
14				---	---	---	---	---	---	7.2	6.6	6.9
15				---	---	---	---	---	---	7.0	6.7	6.9
16				---	---	---	6.8	6.6	6.7	7.0	6.7	6.8
17				---	---	---	---	---	---	6.7	6.5	6.6
18				---	---	---	---	---	---	7.0	6.4	6.7
19				---	---	---	---	---	---	7.3	6.5	6.9
20				6.2	6.0	6.1	---	---	---	7.2	6.7	6.9
21				6.3	5.9	6.1	---	---	---	6.9	6.6	6.8
22				6.5	6.0	6.2	---	---	---	6.6	6.4	6.5
23				6.8	6.0	6.3	---	---	---	6.5	6.3	6.4
24				7.0	6.0	6.4	8.0	7.1	7.6	6.7	6.3	6.5
25				7.5	6.2	6.6	7.3	6.7	7.1	6.5	6.2	6.4
26				6.9	6.2	6.4	7.3	6.6	6.9	6.5	6.2	6.3
27				6.5	6.1	6.2	---	---	---	---	---	---
28				6.6	6.1	6.3	8.0	6.6	6.8	6.6	6.1	6.3
29				6.6	6.1	6.3	7.5	6.6	6.9	6.5	6.2	6.4
30				7.1	6.2	6.4	7.1	6.7	6.8	6.5	6.2	6.3
31				7.4	6.3	6.6	7.1	6.5	6.8	6.4	6.2	6.3
MONTH				7.5	5.9	6.3	7.1	6.7	6.8	6.3	6.1	6.2
YFAR	8.0	5.9	6.6				8.0	6.1	6.8	7.3	6.1	6.7

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

CONNECTICUT RIVER BASIN

01183750 CONNECTICUT RIVER AT AGAWAM, MA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1				---	---	---	29.5	27.0	28.0	25.5	23.0	24.0
2				---	---	---	29.0	27.5	28.0	25.0	22.5	24.0
3				---	---	---	29.5	27.0	28.0	25.5	23.5	24.5
4				---	---	---	29.5	27.5	28.5	26.0	23.5	25.0
5				---	---	---	30.5	27.5	28.5	25.0	24.0	24.5
6				---	---	---	30.0	27.5	28.5	24.5	23.5	24.0
7				---	---	---	29.0	26.5	27.5	23.5	22.5	23.0
8				---	---	---	28.0	26.0	27.0	23.5	22.0	23.0
9				---	---	---	28.0	25.5	26.5	22.5	20.5	21.5
10				---	---	---	26.0	25.0	25.5	22.5	20.5	21.5
11				---	---	---	---	---	---	22.5	20.5	21.0
12				---	---	---	---	---	---	22.5	19.5	21.0
13				---	---	---	---	---	---	22.5	19.5	21.0
14				---	---	---	---	---	---	21.5	20.5	21.0
15				---	---	---	21.0	20.0	20.5	22.0	20.5	21.0
16				---	---	---	---	---	---	22.5	20.0	21.0
17				---	---	---	---	---	---	22.5	19.0	20.5
18				---	---	---	---	---	---	22.5	20.0	21.0
19				---	---	---	---	---	---	22.0	19.5	20.5
20				27.0	25.5	26.5	---	---	---	20.5	18.0	19.0
21				26.5	24.5	25.5	---	---	---	18.5	17.5	18.0
22				27.5	24.5	26.0	---	---	---	18.5	17.5	18.0
23				28.5	25.5	27.0	23.5	23.0	23.5	18.0	16.0	17.0
24				28.0	26.0	27.0	23.5	22.5	23.0	18.5	16.0	17.0
25				29.0	26.0	27.5	25.0	22.5	23.5	17.5	16.0	16.5
26				28.5	27.0	27.5	26.0	23.0	24.5	18.5	16.0	17.5
27				29.0	26.5	27.5	24.5	23.0	24.0	18.5	16.0	17.5
28				29.0	26.5	27.5	25.5	23.5	24.5	18.5	17.0	17.5
29				29.0	26.5	27.5	25.5	24.0	24.5	18.5	18.0	18.0
30				29.5	26.5	28.0	26.0	24.0	25.0	17.5	17.0	17.5
31				29.0	27.0	28.0	26.0	24.0	25.0	---	---	---
MONTH				29.5	24.5	27.0	30.5	20.0	25.5	26.0	16.0	20.5
YEAR	30.5	16.0	23.5									

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1				---	---	---	11.4	6.8	8.8	9.4	6.4	7.5
2				---	---	---	8.6	5.6	7.0	9.3	6.2	7.6
3				---	---	---	9.2	4.3	6.7	9.8	5.6	7.4
4				---	---	---	9.5	5.1	7.0	9.7	5.5	7.5
5				---	---	---	10.5	5.2	7.9	8.9	6.8	7.7
6				---	---	---	11.7	6.9	9.2	7.3	6.5	6.9
7				---	---	---	11.6	7.1	9.4	8.0	6.6	7.6
8				---	---	---	11.6	7.7	9.5	8.5	7.2	8.1
9				---	---	---	11.7	7.0	9.4	8.8	7.4	8.2
10				---	---	---	8.5	7.4	7.9	9.6	7.6	8.5
11				---	---	---	---	---	---	10.3	7.5	8.7
12				---	---	---	---	---	---	10.6	7.7	9.2
13				---	---	---	---	---	---	10.7	8.0	9.3
14				---	---	---	---	---	---	8.9	8.0	8.5
15				---	---	---	9.9	8.0	9.1	9.2	7.4	8.4
16				---	---	---	---	---	---	10.0	7.7	8.8
17				---	---	---	---	---	---	10.8	7.1	8.8
18				---	---	---	---	---	---	10.9	7.4	9.1
19				---	---	---	---	---	---	10.4	7.9	9.2
20				8.7	6.5	8.0	---	---	---	10.5	8.3	9.3
21				9.7	5.9	7.7	---	---	---	9.1	7.8	8.4
22				11.0	6.1	8.7	---	---	---	8.5	6.9	7.8
23				11.8	6.7	9.0	10.9	9.3	10.2	9.9	7.6	8.9
24				11.4	6.9	9.0	10.3	7.6	9.0	10.2	7.8	9.2
25				13.0	7.6	9.7	10.0	6.5	8.1	9.9	8.1	8.8
26				11.2	7.4	8.9	11.3	6.1	8.7	10.2	7.3	8.5
27				9.2	5.5	7.2	8.9	7.0	7.7	9.8	7.6	8.6
28				10.1	5.5	7.4	9.7	6.7	8.0	9.9	7.5	8.5
29				10.8	5.9	8.1	8.7	6.9	7.7	9.0	7.0	8.0
30				11.6	6.1	8.5	8.7	5.9	7.0	8.2	7.3	7.8
31				11.0	6.6	8.7	9.0	6.3	7.4	---	---	---
MONTH				13.0	5.5	8.4	11.7	4.3	8.3	10.9	5.5	8.4
YEAR	13.0	4.3	8.4									

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

CONNECTICUT RIVER BASIN

123

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 (see table below), 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 119 of this report.

AVERAGE DISCHARGE.--51 years, 16,420 ft³/s (465.0 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, 112,000 ft³/s (3,170 m³/s) Mar. 27, gage height, 6.84 ft (2.085 m); minimum daily, 2,620 ft³/s (74.2 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2620	7460	4210	4490	15500	12400	52000	62900	48400	4310	5170	7530
2	2800	8200	3820	9630	14600	11300	57500	45200	41000	6690	7210	6460
3	3140	9070	3440	37800	12800	11300	66500	37600	34600	10200	6660	4910
4	4200	7060	4880	44500	11500	11700	67500	34100	30300	9080	6450	6820
5	4130	3890	6960	34400	9260	11500	64700	33100	24000	5630	4900	9320
6	5120	4010	6940	26500	13000	29400	57500	31500	22600	8160	5380	14000
7	4840	7320	6400	21700	12000	81100	50400	29800	19800	6000	4970	21400
8	4130	7780	6500	28500	11500	104000	40500	26000	20300	4080	5240	18300
9	4370	5040	9490	35000	11000	95400	36100	24100	17100	5660	5250	13600
10	4970	3860	10800	26900	10600	86900	36100	22500	16000	7880	4770	8400
11	5820	3160	7390	19000	10300	87700	36100	16900	13700	5830	4790	8060
12	5330	3220	6930	14800	9880	85000	35900	17500	13900	5060	5330	7180
13	6320	3790	8860	15500	9560	73000	31400	17900	17300	6210	8100	7830
14	5360	7760	7300	14300	9320	61400	32300	16000	18200	5080	9980	9690
15	5630	5650	7690	12200	8960	60600	35600	17900	17000	4420	8260	9660
16	6860	4930	6200	12900	9310	61800	35900	15700	14800	8090	6520	6730
17	10200	5050	4420	12300	9400	52600	36600	16600	11100	7470	6250	5700
18	8130	6710	5720	13100	6380	45500	37700	13300	8090	9070	5400	6570
19	7320	5730	7200	14600	4920	42200	39900	11200	12500	8100	4850	7430
20	6790	4710	5550	14300	5890	40200	40400	8240	12600	6570	6170	7050
21	4930	6620	5440	10900	7370	39400	38200	10700	8080	6640	7340	6700
22	3620	7270	5380	17100	6860	43600	37000	11900	7330	4950	6790	8370
23	3530	7240	4440	19300	8550	53400	36100	12100	5470	5570	6240	10000
24	5590	5190	3780	18100	14100	66500	39800	16900	3940	5640	5990	7420
25	5140	6340	3790	27200	19600	81200	42800	48500	4500	4890	5330	8100
26	4840	4130	4730	29700	15800	104000	42000	85600	8730	4860	4780	7480
27	6380	4840	6490	26600	14700	107000	50200	85000	6340	7210	6780	8120
28	9030	7870	6360	23000	12700	94000	72700	63700	6030	6640	8860	7480
29	7450	5890	5750	19900	---	76400	80100	52000	5530	5060	7530	7530
30	7640	5500	5590	17900	---	64600	78500	51400	5930	5280	8710	7790
31	8750	---	4230	15200	---	53400	---	50700	---	6360	9540	---
TOTAL	174980	175290	188680	637320	305360	1848500	1408100	990540	475170	196690	199540	266230
MEAN	5645	5843	6086	20560	10910	59630	46940	31950	15840	6345	6437	8874
MAX	10200	9070	10800	44500	19600	107000	80100	85600	48400	10200	9980	21400
MIN	2620	3160	3440	4490	4920	11300	31400	8240	3940	4080	4770	4910
(†)	511	281	288	11.8	72.4	142	196	289	207	487	488	190

CAL YR 1978 TOTAL 5687910 MEAN 15580 MAX 64700 MIN 1510
WTR YR 1979 TOTAL 6866400 MEAN 18810 MAX 107000 MIN 2620

† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

CONNECTICUT RIVER BASIN

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.--Interruptions in the record were 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.--

SPECIFIC CONDUCTANCE: Maximum, 206 micromhos January 22; minimum, 54 micromhos May 29.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 6; minimum, 0.0°C February 18.

WATER QUALITY DATA: WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
14...	0945	8200	142	6.8	2.5	10.5	20	2.0	9.8	88	38000	3700
NOV												
16...	1330	4400	138	6.7	9.0	9.0	30	3.0	10.2	88	52000	1300
DEC												
15...	0945	6660	123	7.2	.0	1.0	20	2.0	12.9	91	50000	3100
JAN												
12...	0940	13000	102	7.3	<5.0	.5	5	4.0	9.0	62	17000	4000
FEB												
16...	0945	10300	125	6.6	<5.0	.0	10	1.0	12.6	86	4000	680
MAR												
12...	1040	85900	62	6.8	.0	.5	20	2.0	14.8	103	5800	2700
APR												
16...	1020	35000	84	6.9	6.5	5.0	10	3.0	12.4	97	16000	2100
MAY												
16...	1000	17800	94	7.0	19.0	17.0	10	3.0	9.2	95	10000	2900
JUN												
15...	0940	17200	101	7.1	25.0	19.5	5	2.0	9.2	100	86000	80000
JUL												
20...	1010	5380	104	6.6	33.5	26.0	10	3.0	6.5	79	55000	2000
AUG												
09...	1100	3950	138	7.5	25.0	24.5	6	3.0	8.0	94	20000	920
SEP												
18...	0945	5130	116	7.4	24.0	20.5	8	4.0	9.2	101	32000	5100

DATE	STREP- TOCOCCL 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	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKAL- INITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT												
18...	47	43	7	14	1.9	8.0	28	.5	--	1.8	36	--
NOV												
16...	92	37	7	12	1.8	8.3	31	.6	--	1.8	30	--
DEC												
15...	440	32	10	10	1.8	8.6	35	.7	--	1.5	22	--
JAN												
12...	800	29	13	8.9	1.7	6.8	32	.5	--	1.2	16	--
FEB												
16...	230	38	15	12	2.0	8.8	32	.6	--	1.4	23	--
MAR												
12...	640	21	11	6.1	1.4	5.9	37	.6	--	.8	10	--
APR												
16...	250	26	9	8.1	1.4	4.8	28	.4	--	.9	17	--
MAY												
16...	220	33	10	11	1.4	5.6	26	.4	--	1.0	23	--
JUN												
15...	320	33	11	11	1.4	6.1	28	.5	--	1.1	22	--
JUL												
20...	17	38	4	12	1.9	8.4	32	.6	9.8	1.4	34	17
AUG												
09...	K16	43	13	14	2.0	11	35	.7	13	1.5	30	1.9
SEP												
18...	29	40	14	13	1.8	9.0	32	.6	10	1.4	26	2.0

< 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

125

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 18...	12	12	.1	2.9	84	74	.11	1860	92	.20	--	.04
NOV 16...	12	11	.0	3.5	75	68	.10	891	83	.34	--	.13
DEC 15...	12	12	.1	6.0	77	65	.10	1390	77	.35	--	.17
JAN 12...	10	11	.1	5.8	63	55	.09	2210	75	.41	--	.08
FEB 16...	13	13	.1	6.9	78	71	.11	2170	85	.47	--	.22
MAR 12...	7.8	6.9	.1	5.1	47	40	.06	10900	80	.28	--	.06
APR 16...	8.1	8.2	.0	5.2	55	47	.07	5200	59	.27	--	.04
MAY 16...	9.2	10	.1	5.2	58	58	.08	2790	75	.41	--	.08
JUN 15...	10	8.6	.1	4.8	65	56	.09	3020	67	.22	--	.11
JUL 20...	11	13	.1	3.7	85	72	.12	1240	87	.21	--	.07
AUG 09...	13	15	.1	3.6	85	78	.12	907	145	.15	--	.12
SEP 18...	10	12	.1	3.9	75	68	.10	1040	91	.23	.20	.13

DATE	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,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (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)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 18...	--	.43	.47	.06	.41	.67	--	3.0	.07	--	.03
NOV 16...	--	.43	.56	.13	.43	.90	--	4.0	.07	--	.05
DEC 15...	--	.23	.40	.00	.48	.75	--	3.3	.06	--	.04
JAN 12...	--	.17	.25	.02	.23	.66	--	2.9	.06	--	.05
FEB 16...	--	.57	.79	.26	.53	1.3	--	5.6	.09	--	.05
MAR 12...	--	.31	.37	.00	.38	.65	--	2.9	.06	--	.01
APR 16...	--	.24	.28	.20	.08	.55	--	2.4	.02	--	.01
MAY 16...	.10	.29	.37	.16	.21	.78	--	3.5	.33	1.0	.17
JUN 15...	.13	.31	.42	.03	.39	.64	--	2.8	.33	1.0	.01
JUL 20...	.08	.34	.41	.17	.24	.62	--	2.7	.05	.15	.03
AUG 09...	.15	.28	.40	.34	.06	.55	--	2.4	.07	.21	.02
SEP 18...	.16	.46	.59	.18	.41	.82	.61	3.6	.08	.25	.03

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC 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)	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)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	1	0	0	0	0	1	0	1	10	9	1	0
JAN 12...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	2	1	0	0	0	3	0	3	10	10	0	2
APR 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	0	0	0	0	0	2	1	1	20	10	10	0
JUN 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	1	1	0	0	30	1	1	0	<10	0	<10	1
SEP 18...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT 18...	--	--	--	--	5	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	3	--	--	--	--	--	--	--
DEC 15...	0	0	4	0	4	360	210	150	4	2	2	30
JAN 12...	--	--	--	--	1	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	4	--	--	--	--	--	--	--
MAR 12...	0	2	6	0	6	1320	1200	120	6	0	6	70
APR 16...	--	--	--	--	3	--	--	--	--	--	--	--
MAY 16...	0	0	8	5	3	370	250	120	6	1	5	30
JUN 15...	--	--	--	--	20	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	5	--	--	--	--	--	--	--
AUG 09...	1	0	9	3	6	310	260	50	9	8	1	83
SEP 18...	--	--	--	--	4	--	--	--	--	--	--	--

< 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 1978 TO SEPTEMBER 1979

DATE	MANGA- NESE, SUS- PENDE RECOV, (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELLE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELLE- 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)
OCT 18...	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--
DEC 15...	0	30	<.5	.0	<.5	0	0	0	0	0
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--
MAR 12...	40	30	<.5	.0	<.5	0	0	0	0	0
APR 16...	--	--	--	--	--	--	--	--	--	--
MAY 16...	10	20	<.5	.0	<.5	0	0	0	0	0
JUN 15...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
AUG 09...	80	3	<.5	.0	<.5	0	0	0	0	0
SEP 18...	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	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 18...	--	--	50	5.3	--	--	.00	--	--	--
NOV 16...	--	--	20	3.8	--	--	--	--	--	--
DEC 15...	20	10	10	6.7	6.1	.6	.00	1400	.000	.000
JAN 12...	--	--	50	3.5	--	--	--	--	--	--
FEB 16...	--	--	20	4.1	--	--	--	--	--	--
MAR 12...	20	10	10	5.7	4.9	.8	.00	450	.000	.000
APR 16...	--	--	10	3.8	--	--	--	--	--	--
MAY 16...	40	20	20	5.9	5.7	.2	.00	1400	3.49	.000
JUN 15...	--	--	20	4.8	--	--	--	--	--	--
JUL 20...	--	--	10	--	--	--	--	20000	--	--
AUG 09...	30	20	10	4.4	3.8	.6	.00	14000	16.0	.000
SEP 18...	--	--	0	--	--	--	--	660	--	--

< 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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEU (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEU (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEU (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEU (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 18...	0945	8200	11	244	100	APR 16...	1020	35000	7	661	100
NOV 18...	1330	4400	5	59	100	MAY 16...	1000	17800	18	865	52
DEC 15...	0945	6660	7	126	--	JUN 15...	0940	17200	13	604	78
JAN 12...	0940	13000	6	211	100	JUL 20...	1010	5380	8	116	80
FEB 16...	0945	10300	3	83	100	AUG 09...	1100	3950	14	149	77
MAR 12...	1040	85900	58	13500	--	SEP 18...	0945	5130	12	166	85

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PERIPHYTON

(sampling method - Polyethylene strip)

Dates of Exposure	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)
September 20 to October 18	29	23.6	20.7	44.9	4.93
May 16 to June 15	31	--	--	5.58	.620

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	DEC 15,78 0945	MAR 12,79 1040	MAY 16,79 1000	JUL 20,79 1010	AUG 9,79 1100	SEP 18,79 0945						
TOTAL CELLS/ML	1400	450	1400	20000	14000	660						
DIVERSITY: DIVISION	1.2	0.6	1.1	1.4	1.5	1.5						
..CLASS	1.2	0.6	1.1	1.4	1.5	1.5						
...ORDER	1.6	0.8	1.9	2.1	1.8	1.6						
....FAMILY	2.7	3.3	2.4	2.7	2.6	2.4						
....GENUS	2.7	3.6	3.1	3.0	3.4	2.6						
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT		
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	* 0		120	1	--	-		
....COELASTRACEAE												
....COFLASTRUM	--	-	--	-	350	2	--	-	--	-		
....MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	910	6	--	-		
....MICRACTINIUM	--	-	--	-	1900	10	1400	10	--	-		
....OOCYSTACEAE												
....ANKISTRODESUS	--	-	--	-	43	3	880	4	* 0	14	2	
....DICTYOSPHAERIUM	--	-	--	-	120	8	1200	6	1100	8	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	120	1	--	-
....OOCYSTIS	--	-	--	-	14	1	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	29	2	--	-	360	3	--	-
....TREUHARIA	--	-	--	-	--	-	--	-	* 0	--	-	-
....SCENEDESMACEAE												
....ACTINASTRUM	--	-	58	13	--	-	660	3	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	180	1	240	2	110#	17
....SCENEDESMUS	--	-	--	-	100	7	700	3	2500#	18	55	8
....TETRASPORALES												
....PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	43	3	350	2	480	3	--	-
....VOLVOCALES												
....CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	42	3	--	-	29	2	310	2	180	1	14	2
....VOLVOCAEEAE												
....GONIUM	--	-	--	-	29	2	--	-	--	-	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
....COSCINODISCACEAE												
....CYCLOTELLA	190	14	14	3	560#	40	2300	11	1300	9	--	-
....MELOSIHA	--	-	--	-	160	11	--	-	1600	11	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	660	5	--	-
...PENNALES												
....ACHNANTHACEAE												
....ACHNANTHES	97	7	87#	19	29	2	--	-	--	-	96	15
....CYMBELLACEAE												
....CYMBELLA	--	-	14	3	--	-	--	-	--	-	--	-
....DIATOMACEAE												
....DIATOMA	14	1	14	3	--	-	--	-	--	-	--	-
....EUNOTIACEAE												
....EUNOTIA	--	-	29	6	--	-	--	-	--	-	--	-
....FRAGILARIACEAE												
....ASTERIONELLA	84	6	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	14	3	29	2	--	-	--	-	--	-
....HANNAEA	--	-	14	3	--	-	--	-	--	-	--	-
....SYNEDRA	14	1	29	6	100	7	--	-	--	-	--	-
....GOMPHONEMATACEAE												
....GOMPHONEMA	14	1	43	10	--	-	--	-	--	-	--	-
....MERIDIONACEAE												
....MERIDION	--	-	14	3	--	-	--	-	--	-	--	-
....NAVICULACEAE												
....AMPHIPLEURA	--	-	14	3	--	-	--	-	--	-	--	-
....NAVICULA	56	4	58	13	14	1	* 0		* 0		160#	25
....NITZSCHIA												
....NITZSCHIA	70	5	--	-	43	3	400	2	* 0		41	6
....SURIPELLACEAE												
....CYMATOPLEURA	--	-	14	3	--	-	--	-	--	-	--	-
....TARELLARIACEAE												
....TARELLARIA	--	-	29	6	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
....CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	310	2	--	-	--	-
....ANACYSTIS	--	-	--	-	58	4	2500	12	2900#	20	--	-
....HORMOGONALES												
....OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	7900#	39	--	-	160#	25
....OSCILLATORIA	290#	21	--	-	--	-	--	-	--	-	--	-
....SCYTONEMATACEAE												
....PLECTONEMA	490#	35	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE												
....EUGLENA	14	1	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	* 0		--	-	--	-

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	177	170	173	143	134	137	171	157	164	147	142	145
2	175	169	173	145	134	140	171	164	168	150	141	147
3	176	166	171	146	141	144	163	150	156	137	103	111
4	175	168	171	141	138	140	159	150	155	106	103	105
5	170	165	168	144	139	141	171	155	165	105	100	103
6	168	160	164	155	141	146	168	154	161	104	96	99
7	166	159	163	157	145	152	161	152	155	112	100	104
8	163	156	159	150	144	147	161	153	158	150	120	132
9	160	156	159	143	134	138	161	155	158	116	97	102
10	157	154	156	153	141	148	156	134	142	106	96	101
11	160	155	158	153	146	150	143	136	141	118	107	110
12	163	157	160	156	148	151	144	138	141	118	110	113
13	165	157	161	158	149	152	141	112	127	164	112	118
14	163	157	160	155	140	148	140	117	129	192	141	169
15	161	156	158	144	137	141	141	136	138	192	157	175
16	160	153	156	140	136	138	140	138	139	158	137	144
17	161	143	153	148	142	145	149	139	142	139	135	137
18	143	139	142	154	148	151	154	138	146	139	133	136
19	156	145	152	149	143	146	156	144	150	138	130	134
20	164	156	159	149	143	146	150	136	146	144	139	142
21	158	150	153	150	142	147	179	136	144	---	---	---
22	162	153	157	146	140	142	201	173	185	206	172	191
23	160	155	157	143	137	139	178	160	170	170	137	148
24	167	155	160	151	141	147	162	155	160	143	139	141
25	157	150	153	167	152	161	160	153	156	136	124	132
26	155	151	153	154	148	151	180	152	164	133	128	131
27	157	150	154	158	151	154	175	155	166	131	121	124
28	156	147	151	159	142	150	155	152	153	134	125	130
29	149	141	144	149	144	146	155	148	153	143	136	139
30	143	138	141	156	144	149	152	148	150	146	144	145
31	143	139	141	---	---	---	151	147	150	151	148	150
MONTH	177	138	157	167	134	146	201	112	153	206	96	132
FEBRUARY			MARCH			APRIL			MAY			
1	153	150	151	128	121	126	79	75	77	66	63	64
2	157	152	155	127	123	125	76	75	75	68	63	66
3	165	159	162	128	125	126	78	75	77	73	66	70
4	166	163	165	127	122	124	77	73	74	76	73	75
5	169	167	168	124	120	122	77	73	75	77	72	75
6	177	171	174	123	91	107	74	72	73	79	77	78
7	182	178	179	90	84	87	74	72	73	81	79	80
8	185	182	184	92	84	89	78	75	76	86	80	83
9	187	185	186	85	82	84	85	78	81	92	85	89
10	193	189	191	83	80	81	84	80	82	92	88	90
11	201	194	196	83	79	81	84	81	83	94	90	92
12	181	70	118	81	78	80	85	83	84	96	93	94
13	126	111	121	86	79	83	85	83	84	97	96	96
14	130	120	124	88	85	86	84	82	83	97	96	97
15	136	130	134	86	84	85	83	80	81	97	93	96
16	144	135	143	89	85	87	82	80	81	100	94	97
17	152	142	150	88	86	87	80	77	79	98	95	97
18	---	---	---	90	86	89	80	76	78	100	95	98
19	---	---	---	90	88	89	81	77	79	103	98	101
20	---	---	---	91	88	89	83	79	81	106	104	105
21	152	116	135	89	86	87	83	80	82	107	103	105
22	199	150	162	86	81	84	81	78	80	109	105	107
23	171	154	161	80	76	78	78	76	77	108	103	105
24	153	130	140	78	73	76	76	74	75	111	99	103
25	126	120	122	78	72	75	74	72	73	98	64	81
26	120	113	116	74	69	72	73	71	72	71	59	64
27	117	112	114	70	66	69	73	69	72	62	57	59
28	128	111	118	69	67	68	68	64	66	64	58	62
29	---	---	---	72	68	70	65	60	62	65	54	60
30	---	---	---	77	71	74	65	57	63	61	56	59
31	---	---	---	79	76	77	---	---	---	60	56	58
MONTH	201	70	151	128	66	89	85	57	77	111	54	84

CONNECTICUT RIVER BASIN

131

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	66	57	62	152	142	147						
2	74	65	70	153	147	149						
3	79	73	77	147	135	141						
4	84	78	82	137	123	132						
5	89	83	86	130	122	127						
6	90	87	88	138	129	132						
7	92	88	89	---	---	---						
8	91	88	90	---	---	---						
9	98	91	95	---	---	---						
10	102	96	99	---	---	---						
11	104	99	100	---	---	---						
12	108	103	105	---	---	---						
13	104	99	102	---	---	---						
14	102	96	99	---	---	---						
15	104	98	101	---	---	---						
16	107	102	104	---	---	---						
17	111	106	108	---	---	---						
18	126	112	119	---	---	---						
19	117	109	112	---	---	---						
20	112	108	109	---	---	---						
21	116	109	112	---	---	---						
22	121	114	117	---	---	---						
23	121	115	118	---	---	---						
24	125	115	120	---	---	---						
25	137	124	128	---	---	---						
26	137	123	131	---	---	---						
27	129	125	127	---	---	---						
28	133	130	131	---	---	---						
29	137	131	134	---	---	---						
30	145	136	141	---	---	---						
31	---	---	---	---	---	---						
MONTH	145	57	105	153	122	138						
YEAR	206	54	121									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.5	1.5	2.0	2.0	1.0	1.5	6.0	5.5	6.0	13.5	13.0	13.5
2	1.5	1.0	1.5	2.5	1.5	2.0	6.0	6.0	6.0	14.0	12.5	13.5
3	1.5	1.0	1.5	2.5	2.0	2.5	6.0	5.5	5.5	13.5	13.0	13.5
4	1.5	1.0	1.0	2.5	2.0	2.5	6.0	5.0	5.5	14.0	13.0	13.5
5	1.5	1.0	1.0	4.0	2.5	3.0	6.0	5.5	6.0	14.0	13.0	13.5
6	1.0	1.0	1.0	4.0	2.0	3.5	6.0	5.5	6.0	14.0	13.0	13.5
7	1.0	1.0	1.0	2.0	1.5	1.5	6.0	5.5	5.5	14.0	13.0	13.5
8	1.5	1.0	1.0	2.0	1.5	1.5	6.5	5.0	6.0	15.5	13.5	14.5
9	1.0	.5	1.0	2.0	1.5	1.5	6.5	5.5	6.0	17.0	14.5	16.0
10	1.0	.5	.5	1.5	1.5	1.5	6.5	5.5	6.0	18.0	16.0	17.0
11	1.0	.5	.5	1.5	1.0	1.5	8.0	6.5	7.0	19.0	17.5	18.0
12	1.0	.5	.5	1.0	.5	1.0	9.0	7.5	8.0	18.0	17.5	17.5
13	1.0	.5	.5	1.5	.0	.5	9.5	8.5	9.0	17.5	17.0	17.5
14	1.0	.5	.5	2.0	1.5	1.5	9.5	8.5	9.0	17.0	16.5	17.0
15	1.0	.5	1.0	2.0	1.0	1.5	8.0	7.5	8.0	17.0	15.5	16.5
16	1.0	.5	.5	1.0	.5	1.0	7.5	7.0	7.5	17.5	16.0	17.0
17	1.0	.5	.5	1.5	.5	1.0	8.5	7.5	8.0	17.5	16.5	17.0
18	1.0	.0	.5	2.0	1.5	1.5	9.0	7.5	8.5	17.0	16.5	16.5
19	.5	.5	.5	2.5	1.5	2.0	9.5	8.5	9.0	17.0	16.0	16.5
20	1.0	.5	.5	3.5	2.0	3.0	10.0	8.5	9.5	16.5	15.5	16.0
21	1.0	.5	1.0	4.0	3.0	3.5	10.5	9.5	10.0	18.0	16.0	17.0
22	1.5	1.0	1.0	4.5	3.5	4.0	10.5	10.0	10.5	18.5	17.0	18.0
23	1.5	1.0	1.0	4.5	4.0	4.0	11.5	10.5	11.0	18.0	17.5	18.0
24	1.5	1.0	1.5	5.0	3.5	4.5	12.0	11.0	11.5	17.5	16.0	17.0
25	1.0	1.0	1.0	5.5	5.0	5.5	12.0	11.5	11.5	15.5	13.0	14.5
26	1.0	.5	1.0	5.5	5.0	5.0	12.5	11.5	12.0	13.5	13.0	13.5
27	1.5	1.0	1.0	5.0	4.5	4.5	13.5	12.0	12.5	13.0	13.0	13.0
28	2.5	1.0	1.5	4.5	4.0	4.0	12.5	11.5	12.0	13.5	13.0	13.0
29	---	---	---	4.5	4.0	4.0	13.5	12.5	13.0	14.0	13.0	13.5
30	---	---	---	5.0	4.0	4.5	13.5	13.0	13.5	14.5	13.5	14.0
31	---	---	---	5.5	4.5	5.0	---	---	---	15.0	13.5	14.5
MONTH	2.5	.0	1.0	5.5	.0	2.5	13.5	5.0	8.5	19.0	12.5	15.5
JUNE			JULY			AUGUST			SEPTEMBER			
1	16.0	14.5	15.5	23.5	23.5	23.5	28.0	27.5	27.5	25.0	24.0	24.5
2	16.5	15.5	16.0	24.0	23.5	23.5	28.5	27.5	28.0	25.0	24.0	24.5
3	17.5	16.5	17.0	24.0	23.0	23.5	28.0	27.0	27.5	25.5	24.5	25.0
4	18.0	17.5	17.5	23.5	22.0	23.5	29.0	27.5	28.0	26.0	24.5	25.5
5	19.0	17.5	18.5	22.0	21.5	22.0	29.0	27.5	28.5	25.5	25.0	25.5
6	19.5	18.5	19.0	22.0	21.0	21.5	29.5	27.5	28.5	25.0	24.5	25.0
7	20.0	18.5	19.5	23.0	20.5	22.0	28.0	27.0	27.0	24.5	23.5	24.0
8	20.0	19.0	19.5	23.5	21.5	22.5	27.0	26.0	26.5	24.0	22.5	23.5
9	20.5	19.5	20.0	24.0	22.5	23.5	27.0	25.5	26.0	22.5	21.5	22.0
10	21.5	19.5	20.5	24.0	23.5	24.0	26.0	25.5	25.5	22.5	21.0	22.0
11	21.0	20.5	21.0	24.5	23.5	24.0	25.5	24.0	25.0	22.0	21.0	21.5
12	20.5	19.5	20.0	25.5	24.0	25.0	24.0	21.0	22.5	22.0	20.5	21.5
13	20.0	19.0	19.5	26.5	24.5	25.5	21.5	20.0	21.0	22.0	21.0	21.5
14	20.0	18.5	19.5	26.5	25.5	26.0	21.0	20.0	20.5	22.0	21.5	21.5
15	21.0	19.0	20.0	27.5	27.0	27.0	20.0	19.5	19.5	22.0	21.5	22.0
16	22.5	20.5	21.5	27.5	26.0	26.5	20.5	19.0	20.0	22.0	20.5	21.5
17	23.0	21.5	22.5	27.5	26.0	27.0	21.5	19.5	20.5	21.5	20.5	21.5
18	24.0	22.5	23.5	26.5	25.5	26.0	21.0	19.5	20.0	22.0	21.0	21.5
19	24.0	22.5	23.5	26.5	25.0	26.0	20.0	19.5	19.5	21.5	20.5	21.5
20	23.5	22.5	23.0	26.0	25.5	26.0	21.5	19.5	20.5	20.5	19.5	20.0
21	24.0	22.0	23.5	26.0	25.0	25.5	23.0	21.0	22.0	19.5	19.0	19.0
22	24.0	22.5	23.5	25.5	25.0	25.0	23.5	21.5	22.5	19.0	18.5	19.0
23	23.5	22.5	23.5	26.5	25.0	26.0	23.5	22.5	23.0	18.5	17.0	18.0
24	23.0	21.5	22.5	26.5	26.0	26.5	23.5	23.5	23.5	18.0	16.5	17.5
25	22.0	21.0	21.5	27.0	26.0	26.5	24.0	23.5	24.0	18.0	16.5	17.5
26	23.0	20.5	22.0	27.5	27.0	27.0	25.5	24.0	24.5	18.5	17.0	18.0
27	22.5	21.0	22.0	28.0	26.5	27.5	25.0	24.5	24.5	18.5	17.0	18.0
28	22.5	21.5	22.0	27.5	26.5	27.0	25.5	24.0	24.5	19.0	17.5	18.5
29	23.5	22.0	23.0	27.5	27.0	27.0	26.0	24.5	25.0	19.0	18.5	19.0
30	23.5	23.0	23.5	28.0	26.5	27.5	26.0	24.5	25.5	19.0	18.0	18.5
31	---	---	---	28.0	27.0	27.5	26.0	25.0	25.5	---	---	---
MONTH	24.0	14.5	21.0	28.0	20.5	25.0	29.5	19.0	24.0	26.0	16.5	21.5

CONNECTICUT RIVER BASIN

133

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 current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1953 to September 1960, October 1968 to September 1969, October 1974 to current year.

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 current year (see page 315). 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, 336 micromhos November 30; minimum, 98 micromhos March 2.

WATER TEMPERATURES: Maximum, 26.0°C August 2; minimum, 0.0°C at times during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	246	220	237	256	247	252	312	233	252	---	---	---
2	240	225	235	258	255	256	240	235	237	---	---	---
3	255	243	248	261	255	258	241	234	236	---	---	---
4	251	239	244	263	255	259	256	234	240	---	---	---
5	244	236	239	263	255	260	---	---	---	---	---	---
6	238	170	201	261	250	256	---	---	---	---	---	---
7	214	180	206	257	251	254	---	---	---	---	---	---
8	224	211	218	266	260	263	---	---	---	---	---	---
9	224	216	220	261	255	258	---	---	---	---	---	---
10	241	221	232	261	254	258	---	---	---	---	---	---
11	240	230	235	259	251	256	---	---	---	---	---	---
12	250	241	245	264	259	261	---	---	---	---	---	---
13	254	237	246	264	258	262	---	---	---	---	---	---
14	255	243	249	261	253	258	---	---	---	---	---	---
15	261	253	257	267	255	263	---	---	---	---	---	---
16	254	247	250	268	262	265	---	---	---	---	---	---
17	255	247	252	268	257	265	---	---	---	---	---	---
18	261	250	256	253	240	244	---	---	---	---	---	---
19	250	243	246	247	244	246	---	---	---	---	---	---
20	254	244	250	252	246	248	---	---	---	---	---	---
21	253	232	245	255	251	253	---	---	---	---	---	---
22	246	235	240	255	250	252	---	---	---	---	---	---
23	254	237	245	254	250	251	---	---	---	---	---	---
24	261	255	259	252	243	249	---	---	---	---	---	---
25	263	256	260	257	247	252	---	---	---	---	---	---
26	256	251	254	246	243	244	---	---	---	---	---	---
27	264	251	258	252	246	249	---	---	---	---	---	---
28	266	246	254	252	249	251	---	---	---	---	---	---
29	254	245	249	270	247	254	---	---	---	---	---	---
30	256	248	252	336	267	297	---	---	---	---	---	---
31	249	241	245	---	---	---	---	---	---	117	112	114
MONTH	266	170	243	336	240	256	312	233	241	117	112	114

CONNECTICUT RIVER BASIN

01184500 SCANTIC RIVER AT BROAD BROOK, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	137	120	128	152	144	148						
2	151	138	144	146	140	143						
3	157	151	154	140	134	137						
4	164	154	159	138	136	137						
5	171	159	165	139	129	134						
6	190	173	183	130	104	116						
7	189	185	188	105	98	102						
8	190	183	187	110	100	104						
9	198	188	194	122	112	118						
10	205	196	201	132	124	128						
11	215	205	207	132	125	128						
12	215	206	212	132	124	128						
13	212	206	209	137	131	134						
14	221	209	215	136	132	133						
15	216	210	213	162	139	152						
16	215	210	213	167	160	164						
17	227	215	222	165	155	161						
18	232	226	229	167	158	163						
19	231	227	229	167	154	161						
20	234	223	229	167	159	164						
21	258	221	228	---	---	---						
22	312	208	246	---	---	---						
23	233	205	217	---	---	---						
24	206	130	165	---	---	---						
25	130	106	116	---	---	---						
26	117	106	109	---	---	---						
27	154	119	131	---	---	---						
28	168	146	156	---	---	---						
29	---	---	---	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	312	106	187	167	98	138						
JUNE			JULY			AUGUST			SEPTEMBER			
1	167	141	157	---	---	---	208	199	206	---	---	---
2	167	156	162	---	---	---	198	153	171	---	---	---
3	174	153	166	---	---	---	207	187	198	---	---	---
4	183	165	175	---	---	---	213	201	206	---	---	---
5	192	176	187	---	---	---	215	209	212	224	194	213
6	195	192	193	188	186	187	---	---	---	205	191	197
7	198	195	196	193	188	191	241	232	238	216	175	192
8	198	187	195	195	191	193	242	235	240	185	174	180
9	196	187	193	199	193	196	253	245	248	204	183	197
10	202	195	200	201	197	199	252	232	246	222	206	214
11	203	201	202	207	201	204	250	233	244	255	212	225
12	204	196	199	211	205	208	245	202	226	227	214	220
13	203	196	199	214	208	211	209	188	198	226	213	219
14	206	200	202	216	209	213	189	169	181	216	193	208
15	207	202	204	219	213	216	191	172	181	230	189	210
16	211	205	209	218	211	214	216	195	207	218	199	209
17	213	210	211	215	194	210	231	219	227	230	204	213
18	214	210	212	204	189	196	244	235	240	236	220	228
19	214	211	213	205	202	204	243	224	236	239	220	229
20	216	210	213	205	194	202	232	223	228	254	232	245
21	216	211	214	198	184	191	249	224	234	246	218	233
22	217	210	214	206	193	201	298	239	261	217	168	185
23	210	197	204	210	206	208	306	242	270	170	148	152
24	199	180	186	216	206	211	314	256	278	153	148	151
25	190	182	188	222	214	219	329	260	281	174	153	165
26	194	188	190	227	207	221	286	252	267	185	174	181
27	197	192	195	210	167	195	258	180	222	204	182	197
28	---	---	---	175	147	164	200	186	190	213	198	205
29	---	---	---	164	147	153	---	---	---	199	179	190
30	---	---	---	198	167	177	---	---	---	180	168	173
31	---	---	---	202	188	195	---	---	---	---	---	---
MONTH	217	141	196	227	147	199	329	153	227	255	148	201

CONNECTICUT RIVER BASIN

135

01184500 SCANTIC RIVER AT BROAD BROOK, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

01184500 SCANTIC RIVER AT BROAD BROOK, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	18.0	19.0	---	---	---	25.5	24.0	25.0	---	---	---
2	20.5	18.5	20.0	---	---	---	26.0	25.0	25.5	---	---	---
3	21.0	19.5	20.5	---	---	---	25.5	25.0	25.5	---	---	---
4	21.5	20.0	20.5	---	---	---	25.0	24.0	24.5	---	---	---
5	21.5	19.0	20.0	---	---	---	25.5	24.0	24.5	23.0	22.0	22.5
6	19.5	16.5	18.0	17.0	16.0	16.5	25.0	23.0	24.0	22.5	21.5	22.0
7	19.5	16.5	18.0	18.5	15.5	17.0	23.0	21.0	22.0	22.0	21.5	21.5
8	20.5	17.5	19.0	19.5	16.5	18.0	22.5	21.5	22.0	21.5	20.5	21.0
9	22.5	19.5	20.5	20.5	18.5	19.5	22.5	21.0	21.5	20.0	18.0	19.5
10	23.5	21.0	22.5	20.5	19.0	20.0	22.0	20.5	21.0	18.5	17.0	18.0
11	24.0	21.0	22.5	21.5	19.5	20.5	21.5	20.0	20.5	19.5	18.0	18.5
12	22.5	20.0	21.5	22.0	20.0	21.0	19.5	17.5	18.5	18.5	17.0	18.0
13	22.0	19.5	20.5	23.0	20.5	21.5	18.5	17.0	17.5	18.0	17.0	17.5
14	22.0	19.5	20.5	24.0	21.0	22.5	18.0	17.5	17.5	20.0	18.0	19.0
15	21.0	19.5	20.5	24.0	22.5	23.5	17.5	17.0	17.0	20.5	19.5	20.0
16	21.0	18.5	19.5	25.0	22.5	23.5	18.0	16.5	17.0	19.5	17.5	18.0
17	19.5	17.0	18.5	24.5	23.0	23.5	18.5	16.5	17.5	18.0	16.5	17.5
18	19.5	17.0	18.5	24.0	22.5	23.0	17.5	16.5	16.5	18.5	17.0	18.0
19	20.0	17.0	18.5	24.0	21.5	22.5	17.5	16.0	17.0	18.5	17.5	18.0
20	20.5	18.0	19.5	23.0	21.0	22.0	19.5	17.0	18.5	17.5	15.5	16.0
21	21.0	19.0	20.0	22.5	21.0	22.0	20.0	18.5	19.5	15.5	14.5	15.0
22	20.5	19.5	20.0	23.0	21.0	22.0	20.5	19.0	20.0	16.5	15.0	16.0
23	21.0	20.0	20.5	24.0	21.5	23.0	21.0	20.0	20.5	16.5	15.5	16.0
24	22.0	20.5	21.0	23.5	22.5	23.0	21.0	20.0	20.5	16.0	15.0	15.5
25	22.0	20.0	21.0	25.0	22.0	23.5	22.0	20.5	21.5	15.5	14.5	15.0
26	20.5	18.5	19.5	25.0	23.0	24.0	23.0	21.0	22.0	16.0	14.5	15.0
27	18.5	16.5	17.5	25.5	23.0	24.5	22.5	22.0	22.0	15.5	14.5	15.5
28	---	---	---	25.0	24.5	25.0	22.5	21.5	22.0	15.5	14.5	15.0
29	---	---	---	24.5	23.5	24.5	---	---	---	17.5	15.5	16.5
30	---	---	---	25.0	22.5	24.0	---	---	---	17.5	16.5	17.0
31	---	---	---	25.0	23.0	24.0	---	---	---	---	---	---
MONTH	24.0	16.5	20.0	25.5	15.5	22.0	26.0	16.0	21.0	23.0	14.5	18.0

CONNECTICUT RIVER BASIN

137

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.214).

AVERAGE DISCHARGE (adjusted for storage).--24 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, 1,360 ft³/s (38.5 m³/s) June 4, gage height, 6.25 ft (1.905 m); minimum daily, 43 ft³/s (1.22 m³/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	96	95	62	145	191	629	983	1100	142	315	484
2	504	388	93	138	385	193	458	1040	1090	166	362	470
3	508	385	93	147	426	188	494	1050	1060	245	410	454
4	202	388	94	133	385	196	549	677	1200	317	430	469
5	75	379	98	126	305	228	508	436	1270	316	432	359
6	86	376	98	124	333	635	561	431	1260	316	424	137
7	84	366	108	127	260	297	489	319	847	317	417	197
8	82	370	126	273	207	144	487	249	266	314	417	192
9	82	250	155	181	210	185	494	239	262	317	433	194
10	82	51	148	182	210	289	416	184	259	312	441	333
11	82	43	137	237	210	226	328	163	236	316	446	466
12	82	44	135	234	210	268	326	162	206	320	483	486
13	82	45	134	235	210	245	323	165	191	318	295	484
14	80	46	134	238	200	226	346	164	182	314	59	483
15	80	47	134	239	185	307	351	158	194	324	73	487
16	78	48	133	234	185	307	386	153	168	250	77	485
17	80	48	133	248	185	307	406	148	165	193	162	476
18	80	52	132	271	185	298	597	148	166	172	216	477
19	126	52	130	269	185	304	746	148	164	121	257	435
20	115	62	130	268	185	331	478	152	141	111	429	360
21	115	94	138	314	185	334	265	154	112	110	459	335
22	115	94	143	335	185	343	258	153	111	109	476	343
23	115	95	141	304	169	352	251	153	113	109	525	334
24	115	96	139	223	227	358	257	235	109	113	501	206
25	115	96	142	346	143	548	262	294	111	121	521	103
26	96	96	137	154	90	388	272	161	110	133	502	105
27	111	96	112	108	182	775	437	108	92	222	502	98
28	96	274	165	88	204	1250	180	268	68	394	509	98
29	96	349	165	79	---	1260	204	455	126	391	490	118
30	96	334	54	79	---	895	628	775	132	335	477	126
31	96	---	54	79	---	627	---	1010	---	308	494	---
TOTAL	4257	5160	3830	6075	6191	12495	12386	10935	11511	7546	12034	9794
MEAN	137	172	124	196	221	403	413	353	384	243	388	326
MAX	508	388	165	346	426	1260	746	1050	1270	394	525	487
MIN	75	43	54	62	90	144	180	108	68	109	59	98
(†)	-108.1	-120.3	-1.5	+365.8	-6.8	+566.0	+147.5	+163.8	-237.6	-182.0	-307.2	-136.6
MEAN ‡	28.9	51.7	122	562	214	969	560	517	146	61.0	80.8	189
CFSM ‡	0.22	0.39	0.93	4.29	1.63	7.40	4.27	3.95	1.11	0.47	0.62	1.44
IN ‡	0.25	0.44	1.07	4.95	1.70	8.53	4.76	4.55	1.24	0.54	0.72	1.61

CAL YP 1978 TOTAL 109620 MEAN 300 MAX 1330 MIN 43 MEAN ‡ 232 CFSM ‡ 1.77 IN ‡ 24.04
WTR YR 1979 TOTAL 102214 MEAN 280 MAX 1270 MIN 43 MEAN ‡ 293 CFSM ‡ 2.24 IN ‡ 30.36

† 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

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1955, 1975 to current year.

PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: January 1975 to September 1978.

WATER TEMPERATURES: January 1975 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 150 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 1975-1978 on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.0°C July 27; minimum, 0.0°C at times during the winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

139

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

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

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. 214).

AVERAGE DISCHARGE (adjusted for storage).--29 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, 4,140 ft³/s (117 m³/s) Mar. 6, gage height, 7.59 ft (2.313 m); minimum, 7.1 ft³/s (0.20 m³/s) Aug. 9, gage height, 1.27 ft (0.387 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	56	56	176	215	192	266	332	320	30	11	41
2	51	61	40	758	260	175	286	264	209	44	12	26
3	49	71	39	849	250	156	325	240	178	32	10	22
4	44	60	63	316	250	163	300	265	174	25	9.5	21
5	54	58	102	195	250	351	323	202	168	29	8.9	24
6	97	59	93	183	250	2650	290	175	160	22	8.7	433
7	63	69	66	217	240	2390	198	166	142	19	8.1	364
8	45	56	67	1280	225	1140	177	151	122	19	7.8	164
9	58	61	165	743	210	798	223	138	92	20	9.1	94
10	54	60	195	383	190	758	309	139	88	16	12	64
11	51	41	109	229	180	1140	321	116	115	15	23	50
12	48	41	110	198	175	735	306	84	128	14	114	46
13	47	52	63	200	170	425	246	104	121	13	202	43
14	27	41	65	200	160	454	327	132	92	12	116	47
15	33	39	50	210	160	466	422	139	81	13	81	80
16	49	37	48	200	155	312	456	120	59	15	65	61
17	46	40	53	190	155	232	407	105	50	28	48	49
18	46	71	53	190	150	207	345	100	70	26	32	42
19	64	62	110	190	150	244	265	85	58	25	68	39
20	73	66	114	190	150	265	218	93	63	20	55	36
21	54	53	82	791	175	289	175	117	52	17	40	42
22	51	60	74	595	175	349	162	94	47	14	37	294
23	68	38	50	402	175	380	165	99	33	13	42	205
24	53	43	48	329	1010	396	163	556	29	12	39	123
25	46	45	70	1640	1280	855	154	1670	51	12	53	91
26	48	29	70	1010	433	556	162	1270	48	22	58	97
27	82	40	55	637	287	376	967	736	40	45	51	75
28	57	46	46	401	230	293	930	524	34	26	43	63
29	47	45	53	351	---	272	730	1150	45	19	41	142
30	62	67	58	289	---	283	459	740	22	15	86	136
31	60	---	57	246	---	248	---	555	---	12	85	---
TOTAL	1649	1567	2324	13788	7710	17550	10077	10661	2891	644	1476.1	3014
MFAN	53.2	52.2	75.0	445	275	566	336	344	96.4	29.8	47.6	100
MAX	97	71	195	1640	1280	2650	967	1670	320	45	202	433
MIN	22	29	39	176	150	156	154	84	22	12	7.8	21
(†)	-11.9	-0.9	+15.8	-3.9	+25.3	-2.3	+3.7	-2.0	-14.7	+0.6	+0.2	+3.0
MEAN ‡	41.3	51.3	90.8	441	300	564	340	342	81.7	21.4	47.8	103
CFSM ‡	0.49	0.61	1.07	5.21	3.54	6.66	4.01	4.04	0.96	0.25	0.56	1.22
IN ‡	0.56	0.68	1.23	6.01	3.69	7.68	4.47	4.66	1.07	0.29	0.65	1.36

CAL YR 1978 TOTAL 61398.0 MEAN 168 MAX 2700 MIN 11 MEAN ‡ 167 CFSM ‡ 1.97 IN ‡ 26.80
WTR YR 1979 TOTAL 73351.1 MEAN 201 MAX 2650 MIN 7.8 MEAN ‡ 202 CFSM ‡ 2.38 IN ‡ 32.35

† 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

141

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1315	66	170	6.8	10.5	9.5	20	3.0	11.6	101	3300	20
NOV												
13...	1420	67	160	6.8	7.0	6.0	20	3.0	12.8	102	13000	52
DEC												
14...	1150	76	148	7.3	1.0	.5	30	1.0	15.1	105	200000	640
JAN												
10...	0930	357	75	6.7	<-5.0	.5	20	2.0	14.9	103	2300	420
FEB												
07...	0945	*190	112	6.7	<-5.0	.5	10	3.0	14.5	101	1100	320
MAR												
08...	0800	1200	58	6.5	4.5	.5	20	4.0	14.6	101	1500	140
APR												
09...	1515	232	102	6.8	2.0	4.0	10	4.0	13.6	103	960	60
MAY												
08...	0850	78	80	7.4	20.0	13.0	20	2.0	10.3	98	3100	110
JUN												
12...	0845	122	106	6.9	11.5	14.0	10	2.0	10.6	102	11000	660
JUL												
18...	0845	26	146	6.8	22.5	23.0	10	3.0	9.6	110	34000	180
AUG												
08...	0740	10	180	6.8	22.0	20.5	11	3.0	7.2	79	2100	140
SEP												
19...	0815	40	115	7.4	19.0	16.0	24	1.0	9.4	95	4100	53

DATE	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
16...	K13	--	--	--	--	--	--	--	19	--	98	.13
NOV												
13...	K6	--	--	--	--	--	--	--	19	--	86	.12
DEC												
14...	260	32	7	8.0	2.8	25	--	14	18	6.6	90	.12
JAN												
10...	54	--	--	--	--	--	--	--	8.5	--	48	.07
FEB												
07...	160	--	--	--	--	--	--	--	14	--	70	.10
MAR												
08...	72	12	0	3.1	1.1	14	--	5.5	6.2	3.3	40	.05
APR												
09...	43	--	--	--	--	--	--	--	14	--	57	.08
MAY												
08...	48	24	7	6.4	1.9	17	--	7.6	9.3	3.4	54	.07
JUN												
12...	520	--	--	--	--	--	--	--	11	--	70	.10
JUL												
18...	52	--	--	--	--	--	--	--	20	--	103	.14
AUG												
08...	170	48	17	13	3.8	31	9.6	11	27	1.0	125	.17
SEP												
19...	40	--	--	--	--	--	--	--	15	--	88	.12

* MEAN DAILY DISCHARGE

< 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

01186800 STILL RIVER AT RIVERTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 16...	17.5	108	--	--	1.2	.70	--	.40	1.1	2.3	10
NOV 13...	15.6	95	--	--	.77	1.0	--	.30	1.3	2.1	9.2
DEC 14...	18.5	95	--	--	.35	.71	--	.49	1.2	1.6	6.9
JAN 10...	46.3	49	--	--	.20	.10	--	1.0	1.1	1.3	5.8
FEB 07...	35.9	71	--	--	.24	.37	--	.24	.61	.85	3.8
MAR 08...	130	44	--	--	.13	.08	--	.17	.25	.38	1.7
APR 09...	35.7	57	--	--	.17	.15	--	.18	.33	.50	2.2
MAY 08...	11.4	62	--	--	.13	.09	.11	.16	.25	.38	1.7
JUN 12...	23.1	85	--	--	.39	.20	.24	.45	.65	1.0	4.6
JUL 18...	7.23	112	--	--	1.3	.05	.06	.49	.54	1.8	8.1
AUG 08...	3.38	126	--	--	1.9	.04	.05	.69	.73	2.6	12
SEP 19...	9.50	100	.79	.04	.83	.07	.08	.42	.49	1.3	5.8

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 16...	.37	--	10	--	--	30	5.0	.10	--	--
NOV 13...	.32	--	5	--	--	0	6.4	--	--	--
DEC 14...	.22	--	2	200	20	0	6.2	.00	.000	.000
JAN 10...	.02	--	4	--	--	30	4.9	--	--	--
FEB 07...	.07	--	4	--	--	10	5.0	--	--	--
MAR 08...	.02	--	1	80	60	0	3.6	.00	.000	.000
APR 09...	.04	--	2	--	--	10	4.5	--	--	--
MAY 08...	.03	.09	3	140	20	0	22	.00	.000	.000
JUN 12...	.09	.28	4	--	--	20	4.2	--	--	--
JUL 18...	.22	.67	9	--	--	0	6.8	--	--	--
AUG 08...	.44	1.4	12	90	70	8	6.3	.10	5.17	.000
SEP 19...	.29	.89	6	--	--	0	4.3	--	--	--

CONNECTICUT RIVER BASIN

143

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.--19.9 mi² (51.5 km²).

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.

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

AVERAGE DISCHARGE.--40 years, 39.6 ft³/s (1.121 m³/s), 27.02 in/yr (686 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)
Jan. 8	1300	560	15.9	Apr. 27	1900	585	16.6
25	about	about	about				
	0100	510	14.4				
Mar. 6	1800	*1,350	38.2	May 25	1400	956	27.1
25	0300	736	20.8	29	0200	700	19.8

Minimum discharge 0.05 ft³/s (0.001 m³/s) Dec. 3 (regulated), gage height, 0.02 ft (0.006 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	8.4	8.9	14	47	54	86	78	76	4.4	2.0	8.7
2	3.0	7.6	3.3	197	41	49	80	62	59	6.7	2.5	6.2
3	2.8	7.4	2.3	173	38	43	96	52	48	5.1	1.4	4.6
4	2.7	7.2	5.5	47	34	50	80	55	37	4.6	1.3	3.8
5	4.4	7.2	14	37	30	79	89	48	32	3.4	1.2	3.3
6	14	6.7	9.1	33	27	844	76	37	28	3.0	1.1	74
7	12	6.3	6.7	30	26	555	61	31	23	2.5	1.1	81
8	8.0	8.0	9.7	373	25	245	53	30	20	2.1	1.0	36
9	5.6	8.2	44	96	22	148	57	28	18	2.0	1.2	21
10	4.6	7.6	38	47	21	174	76	24	16	1.7	1.4	15
11	4.3	7.4	21	40	19	329	87	21	15	1.6	2.1	12
12	4.1	7.2	15	30	18	143	89	18	20	1.4	18	9.5
13	4.0	6.7	10	27	17	90	78	23	15	1.3	56	8.7
14	4.0	6.3	7.8	32	16	134	80	24	11	1.1	21	8.4
15	5.0	6.3	7.2	32	14	124	150	25	8.9	1.2	11	18
16	4.8	6.0	5.8	28	13	76	140	21	6.5	2.0	7.4	12
17	4.1	6.3	5.5	27	12	62	120	16	6.2	5.8	5.0	8.7
18	4.0	18	5.0	27	11	58	95	16	5.3	7.8	4.6	7.1
19	4.1	16	4.3	28	10	61	75	22	4.4	9.1	14	6.3
20	7.4	12	4.0	28	10	76	60	24	4.0	5.5	13	5.0
21	7.4	9.7	9.5	60	9.5	116	50	23	3.4	3.3	8.7	5.1
22	9.9	9.3	12	170	9.0	156	40	19	3.3	2.2	6.3	67
23	12	8.9	7.1	70	8.5	184	35	18	3.1	2.0	4.6	52
24	11	11	4.1	60	29	203	30	116	3.0	1.7	4.0	24
25	9.9	14	7.6	510	178	431	29	625	3.3	1.7	4.0	16
26	10	9.5	6.2	223	124	161	28	275	3.3	2.5	4.6	12
27	16	7.8	4.1	140	71	93	342	112	3.1	11	4.6	11
28	13	10	4.0	99	62	71	275	106	3.0	7.6	3.8	7.8
29	11	9.7	3.8	78	---	65	170	384	2.6	4.4	3.3	35
30	9.9	15	3.8	65	---	68	107	173	2.6	3.1	22	30
31	9.1	---	4.1	53	---	74	---	112	---	2.3	16	---
TOTAL	224.3	271.7	293.4	2874	942.0	5016	2834	2618	484.0	114.1	248.2	609.2
MEAN	7.24	9.06	9.46	92.7	33.6	162	94.5	84.5	16.1	3.68	8.01	20.3
MAX	16	18	44	510	178	844	342	625	76	11	56	81
MIN	2.2	6.0	2.3	14	8.5	43	28	16	2.6	1.1	1.0	3.3
CFSM	.35	.44	.46	4.48	1.62	7.83	4.57	4.08	.78	.18	.39	.98
IN.	.40	.49	.53	5.16	1.69	9.01	5.09	4.70	.87	.21	.45	1.09
CAL YR 1978	TOTAL	14147.7	MEAN	38.8	MAX	766	MIN	1.4	CFSM	1.87	IN	25.42
WTR YR 1979	TOTAL	16528.9	MEAN	45.3	MAX	844	MIN	1.0	CFSM	2.19	IN	29.70

CONNECTICUT RIVER BASIN

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 fair. Occasional regulation at low flow.

AVERAGE DISCHARGE.--48 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)
Jan. 8	0700	149	4.22	5.07	1.545		
25	0500	371	10.5	6.63	2.021		
Mar. 6	1130	*426	12.1	*6.90	2.103		
Apr. 27	1700	157	4.45	5.15	1.570		
May 25	1600	153	4.33	5.11	1.558		

Minimum discharge, 0.61 ft³/s (0.017 m³/s) June 20 (regulated), gage height, 1.48 ft (0.451 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.6	3.2	18	8.8	12	8.8	13	6.8	2.5	1.5	1.4
2	1.3	1.5	2.7	58	7.9	11	9.4	11	5.9	2.0	1.9	1.5
3	1.1	1.5	2.6	46	6.8	13	15	10	5.6	1.8	1.5	2.9
4	1.2	1.8	4.1	14	6.3	15	12	14	5.9	1.4	1.4	1.9
5	1.4	1.5	7.3	8.4	5.8	49	11	10	5.5	1.5	1.3	1.6
6	5.9	1.5	4.1	5.8	4.4	270	10	9.0	5.9	1.4	1.1	18
7	2.6	1.4	3.4	6.7	4.2	84	8.7	8.2	4.9	1.2	1.0	8.0
8	2.0	1.5	3.2	91	4.0	29	8.0	7.7	4.7	1.2	1.3	3.2
9	1.8	1.4	15	22	3.9	20	10	7.4	4.6	1.1	1.2	2.1
10	1.9	1.4	12	12	3.8	26	21	7.0	4.4	1.2	1.4	1.9
11	1.9	1.4	5.5	7.7	3.7	46	17	6.1	4.3	1.1	3.6	1.6
12	1.6	1.3	3.9	5.8	3.6	19	11	6.1	4.9	1.0	12	1.5
13	1.5	1.4	3.6	5.8	3.5	14	8.5	9.9	3.9	1.1	16	1.4
14	1.6	1.5	3.4	12	3.4	15	17	9.5	3.6	.76	3.9	1.8
15	1.7	1.3	3.0	9.9	3.3	14	19	9.4	3.3	.97	2.7	3.8
16	1.5	1.4	2.9	6.1	3.0	11	16	7.0	3.1	7.8	2.8	2.1
17	1.5	1.5	3.2	5.0	2.8	10	15	5.2	3.0	14	2.5	1.7
18	1.5	3.0	3.3	4.7	2.7	9.7	11	5.6	2.8	2.5	2.8	1.5
19	1.5	2.2	2.8	3.5	2.8	9.4	9.4	6.4	2.6	2.0	7.4	1.3
20	1.7	2.0	2.4	3.6	3.4	9.0	8.2	6.0	1.6	1.6	4.4	1.4
21	1.6	1.9	4.5	26	3.9	9.0	7.7	5.6	1.7	1.3	2.9	2.0
22	1.6	1.8	5.2	74	5.6	9.4	7.0	5.3	2.5	1.3	2.4	16
23	1.6	1.8	3.5	21	5.2	9.7	6.7	9.3	2.2	1.2	1.9	6.0
24	1.6	2.4	3.2	14	38	9.9	6.6	27	2.1	1.2	2.1	3.3
25	1.5	3.0	3.4	179	59	24	6.4	71	2.0	1.2	2.6	2.6
26	1.7	2.1	3.5	35	19	14	7.3	38	1.8	1.6	2.5	2.1
27	2.6	1.8	3.1	21	13	11	101	18	1.8	1.5	2.2	1.9
28	2.0	1.9	2.8	16	13	9.0	47	13	2.3	1.4	2.2	1.8
29	1.9	1.9	2.8	14	---	9.4	24	12	2.0	1.3	1.8	8.8
30	1.7	3.6	2.5	11	---	9.2	16	9.2	1.8	1.2	1.8	4.9
31	1.5	---	2.5	10	---	8.8	---	7.9	---	1.2	1.6	---
TOTAL	55.8	54.3	128.6	767.0	244.8	809.5	475.7	384.8	107.5	62.53	95.7	110.0
MEAN	1.80	1.81	4.15	24.7	8.74	26.1	15.9	12.4	3.58	2.02	3.09	3.67
MAX	5.9	3.6	15	179	59	270	101	71	6.8	14	16	18
MIN	1.1	1.3	2.4	3.5	2.7	8.8	6.4	5.2	1.6	.76	1.0	1.3
CFSM	.44	.44	1.01	5.98	2.12	6.32	3.85	3.00	.87	.49	.75	.89
IN.	.50	.49	1.16	6.91	2.20	7.29	4.28	3.47	.97	.56	.86	.99

CAL YR 1978 TOTAL 2850.10 MEAN 7.81 MAX 107 MIN .70 CFSM 1.89 IN 25.67
WTR YR 1979 TOTAL 3296.23 MEAN 9.03 MAX 270 MIN .76 CFSM 2.19 IN 29.68

CONNECTICUT RIVER BASIN

145

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- 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 (MG/L)	COLI- FORM, TOTAL, IMMED. PER 100 ML	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
24...	1400	1.4	118	6.6	8.5	9.0	50	3.0	11.8	102	200	K6
NOV												
14...	1130	1.4	108	7.1	16.5	7.5	45	4.0	12.4	103	160	K1
DEC												
20...	1245	2.4	110	6.8	-1.0	2.0	20	1.0	14.6	105	65	K1
JAN												
23...	1430	15	71	6.7	1.0	.0	5	1.0	14.5	99	92	50
FEB												
05...	1545	6.0	92	6.6	-5.0	.5	5	2.0	14.1	98	<1	<1
MAR												
05...	1545	67	59	6.1	13.0	4.0	20	8.0	13.8	104	4100	680
APR												
09...	1345	9.3	81	6.2	2.5	5.0	10	1.0	13.2	103	180	K2
MAY												
16...	0920	7.2	63	6.1	18.0	14.0	30	1.0	10.0	98	170	45
JUN												
19...	1415	2.6	94	6.3	26.0	18.5	5	2.0	9.4	100	600	40
JUL												
23...	1245	1.9	82	7.5	26.0	21.0	30	3.0	9.0	100	2100	43
AUG												
21...	1035	2.9	90	7.2	21.0	16.0	20	1.0	10.0	101	130	130
SEP												
25...	1210	2.8	86	7.0	20.5	12.0	25	2.0	10.6	101	280	38

DATE	STRFP- TOCOCCE 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- LINEITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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, OIS- SOLVED (TONS PER AC-FT)
OCT												
24...	18	--	--	--	--	--	--	--	16	--	65	.09
NOV												
14...	K1	--	--	--	--	--	--	--	13	--	61	.08
DEC												
20...	K8	25	12	5.8	2.6	13	--	11	15	11	74	.10
JAN												
23...	21	--	--	--	--	--	--	--	11	--	43	.06
FEB												
05...	<1	--	--	--	--	--	--	--	11	--	47	.06
MAR												
05...	1300	11	0	2.3	1.2	16	--	4.1	7.8	3.3	42	.06
APR												
09...	K3	--	--	--	--	--	--	--	11	--	52	.07
MAY												
16...	43	16	2	3.8	1.6	14	--	6.9	10	7.8	54	.07
JUN												
19...	68	--	--	--	--	--	--	--	24	--	110	.15
JUL												
23...	89	--	--	--	--	--	--	--	14	--	66	.09
AUG												
21...	60	20	2	4.9	1.8	18	2.2	8.6	11	8.0	62	.08
SEP												
25...	K15	--	--	--	--	--	--	--	11	--	66	.09

< 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

01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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											
24...	.26	79	--	--	.01	.00	--	.29	.29	.30	1.3
NOV											
14...	.25	71	--	--	.12	.03	--	.11	.14	.26	1.2
DEC											
20...	.48	68	--	--	.20	.03	--	.05	.08	.28	1.2
JAN											
23...	1.76	51	--	--	.16	.00	--	.07	.07	.23	1.0
FEB											
05...	.76	53	--	--	.24	.01	--	.09	.10	.34	1.5
MAR											
05...	7.60	62	--	--	.11	.05	--	.71	.76	.87	3.9
APR											
09...	1.31	54	--	--	.18	.03	--	.11	.14	.32	1.4
MAY											
16...	1.06	82	--	--	.11	.01	.01	.19	.20	.31	1.4
JUN											
19...	.78	139	--	--	.66	.04	.05	.96	1.0	1.7	7.3
JUL											
23...	.34	75	--	--	.12	.05	.06	.14	.19	.31	1.4
AUG											
21...	.50	72	--	--	.14	.01	.01	.25	.26	.40	1.8
SEP											
25...	.50	62	.09	.00	.09	.01	.01	.36	.37	.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										
24...	.01	--	1	--	--	10	5.3	--	--	--
NOV										
14...	.00	--	3	--	--	20	2.5	--	--	--
DEC										
20...	.00	--	0	240	90	0	2.1	.00	.000	.000
JAN										
23...	.01	--	5	--	--	20	3.4	--	--	--
FEB										
05...	.00	--	1	--	--	10	4.2	--	--	--
MAR										
05...	.09	--	2	130	160	0	7.2	.00	.000	.000
APR										
09...	.01	--	1	--	--	10	6.0	--	--	--
MAY										
16...	.06	.18	3	310	50	10	.8	.00	.180	.000
JUN										
19...	.15	.46	6	--	--	10	15	--	--	--
JUL										
23...	.02	.06	2	--	--	10	4.8	--	--	--
AUG										
21...	.01	.03	2	220	30	20	4.7	.00	.000	.000
SEP										
25...	.01	.03	1	--	--	0	3.5	--	--	--

CONNECTICUT RIVER BASIN

147

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1430	135	110	6.8	15.5	11.0	15	1.0	12.5	113	1100	120
NOV												
13...	1230	460	69	6.4	8.0	7.5	10	1.0	12.9	108	3200	190
DEC												
14...	0945	160	100	7.2	3.0	.5	15	1.0	15.5	108	29000	960
JAN												
09...	1325	1340	75	6.9	-1.0	.5	5	2.0	15.2	106	2900	260
FEB												
21...	1230	440	100	6.6	3.0	.0	15	3.0	14.2	97	21000	1700
MAR												
06...	1100	7240	48	6.2	12.0	2.0	25	4.0	14.6	106	18000	2000
APR												
17...	1020	1460	60	6.8	13.0	5.5	10	6.0	13.0	102	24000	1000
MAY												
07...	1245	838	65	6.8	28.0	12.0	10	2.0	11.7	108	640	K14
JUN												
11...	1515	460	76	7.2	23.0	19.5	5	1.0	9.7	104	4800	120
JUL												
16...	1340	384	61	6.7	30.5	23.0	10	1.0	9.2	106	7600	130
AUG												
06...	1215	532	64	6.5	26.0	21.0	8	1.0	9.5	106	10000	300
SEP												
17...	1330	580	70	7.6	25.0	20.0	21	1.0	9.2	100	3900	110

DATE	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
16...	35	--	--	--	--	--	--	--	12	--	69	.09
NOV												
13...	33	--	--	--	--	--	--	--	6.3	--	45	.06
DEC												
14...	160	23	9	6.1	2.0	14	--	9.8	13	4.6	61	.08
JAN												
09...	81	--	--	--	--	--	--	--	8.9	--	50	.07
FEB												
21...	110	--	--	--	--	--	--	--	17	--	61	.08
MAR												
06...	9100	11	4	2.7	1.0	7	--	6.3	6.3	3.5	37	.05
APR												
17...	68	--	--	--	--	--	--	--	7.4	--	40	.05
MAY												
07...	480	16	8	4.4	1.3	8	--	7.1	8.1	4.5	45	.06
JUN												
11...	42	--	--	--	--	--	--	--	9.4	--	52	.07
JUL												
16...	50	--	--	--	--	--	--	--	8.2	--	79	.11
AUG												
06...	180	17	5	4.7	1.2	12	7.4	8.0	7.6	3.6	47	.06
SEP												
17...	22	--	--	--	--	--	--	--	8.5	--	50	.07

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

CONNECTICUT RIVER BASIN

01188085 FARMINGTON RIVER, AT STATE HIGHWAY 4, AT UNIONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 16...	25.2	67	--	--	.45	.03	--	.37	.40	.85	3.8
NOV 13...	55.9	44	--	--	.20	.00	--	.13	.13	.33	1.5
DEC 14...	26.4	70	--	--	.32	.11	--	.15	.26	.58	2.6
JAN 09...	181	66	--	--	.22	.06	--	.06	.12	.34	1.5
FEB 21...	72.5	70	--	--	.31	.15	--	.29	.44	.75	3.3
MAR 06...	723	86	--	--	.18	.08	--	1.7	1.8	2.0	8.8
APR 17...	158	48	--	--	.14	.02	--	.28	.30	.44	1.9
MAY 07...	102	48	--	--	.15	.05	.06	.21	.26	.41	1.8
JUN 11...	64.6	68	--	--	.21	.07	.08	.24	.31	.52	2.3
JUL 16...	81.9	80	--	--	.20	.04	.05	.15	.19	.39	1.7
AUG 06...	67.5	58	--	--	.11	.02	.02	.23	.25	.36	1.6
SEP 17...	78.3	63	.18	.00	.18	.08	.10	.17	.25	.43	1.9

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 16...	.04	--	5	--	--	30	4.5	.00	--	--
NOV 13...	.01	--	3	--	--	0	2.0	--	--	--
DEC 14...	.05	--	0	160	10	10	4.1	.00	.000	.000
JAN 09...	.04	--	10	--	--	20	5.0	--	--	--
FEB 21...	.02	--	2	--	--	20	3.1	--	--	--
MAR 06...	.28	--	3	240	170	10	11	.00	9.74	.000
APR 17...	.01	--	3	--	--	0	2.4	--	--	--
MAY 07...	.19	.58	2	80	20	0	2.9	.00	.000	.000
JUN 11...	.03	.09	7	--	--	10	6.0	--	--	--
JUL 16...	.03	.09	3	--	--	20	7.0	--	--	--
AUG 06...	.03	.09	6	70	20	10	4.9	.00	.000	.000
SEP 17...	.03	.09	3	--	--	0	4.7	--	--	--

CONNECTICUT RIVER BASIN

149

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.214), 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, 8,980 ft³/s (254 m³/s) Mar. 6, gage height, 11.99 ft (3.655 m); minimum, 139 ft³/s (3.94 m³/s) Oct. 16, 17, gage height, 4.37 ft (1.332 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	204	313	229	480	613	1250	1850	1790	219	370	564
2	595	447	212	1060	638	566	1170	1740	1530	216	400	529
3	616	499	183	1660	660	560	1200	1630	1420	276	450	518
4	649	499	191	779	627	572	1360	1460	1440	358	700	499
5	632	485	277	508	600	807	1250	1020	1540	368	600	597
6	773	475	263	386	450	5790	1320	920	1500	354	444	739
7	489	475	247	366	611	5320	1070	834	1310	351	438	809
8	214	499	226	2230	518	2390	978	673	544	351	440	479
9	178	538	407	1470	480	1840	1090	637	484	350	450	369
10	181	461	543	873	433	1980	1320	555	452	350	471	365
11	178	456	350	654	403	3050	1200	479	431	347	533	542
12	176	438	313	533	400	2190	1110	421	450	357	689	564
13	171	429	270	538	380	1550	1010	476	406	358	835	579
14	196	403	257	643	370	1360	1130	501	290	351	300	577
15	158	394	257	622	370	1560	1370	511	343	350	223	626
16	138	378	241	548	360	1200	1420	463	312	401	206	600
17	162	358	229	494	360	1050	1450	404	282	329	189	579
18	164	174	260	554	350	939	1380	391	277	260	273	564
19	193	178	280	528	350	921	1440	396	273	215	390	555
20	223	174	317	538	350	956	1200	341	244	176	399	434
21	220	407	296	1200	342	956	797	376	226	166	521	520
22	206	415	296	1700	405	1080	723	371	210	162	526	1050
23	206	447	270	1080	402	1160	687	384	196	158	574	989
24	214	438	250	886	1140	1210	663	959	174	154	575	698
25	199	447	554	4190	1530	2090	613	3200	177	156	592	307
26	199	438	306	2060	888	1960	615	3240	187	200	613	259
27	220	420	267	1370	652	1910	2800	1960	186	250	596	372
28	235	390	260	967	665	1930	2900	1320	172	400	586	520
29	206	433	209	767	---	1840	2140	2310	167	370	570	635
30	193	466	183	643	---	1650	1840	2100	194	370	562	664
31	206	---	178	543	---	1240	---	2010	---	370	602	---
TOTAL	8980	12265	8705	30619	15214	52240	38496	33932	17207	9093	15117	17102
MFAN	290	409	281	988	543	1685	1283	1095	574	293	488	570
MAX	773	538	554	4190	1530	5790	2900	3240	1790	401	835	1050
MIN	138	174	178	229	342	560	613	341	167	154	189	259
(†)	-129.3	-227.7	+89.3	+331.4	+175.8	+785.8	+230.2	+248.1	-212.6	-168.4	-268.1	-138.8
MEAN ‡	161	181	370	1319	719	2471	1513	1343	341	125	220	431
CFSM ‡	0.43	0.48	0.98	3.49	1.90	6.34	4.00	3.55	0.90	0.33	0.58	1.14
IN ‡	0.50	0.54	1.13	4.02	1.98	7.54	4.46	4.09	1.00	0.38	0.67	1.27
CAL YR 1978 TOTAL	268090			MEAN 734	MAX 6330	MIN 138	MEAN ‡ 697	CFSM ‡ 1.84	IN ‡ 25.02			
WTR YR 1979 TOTAL	258970			MEAN 710	MAX 5790	MIN 138	MEAN ‡ 814	CFSM ‡ 2.15	IN ‡ 27.58			

† 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

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1977 to current year.

WATER TEMPERATURES: August 1977 to current year.

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, 28.5°C July 27, 1979; minimum, 0.0°C on several days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 243 micromhos Jan. 21; minimum, 43 micromhos Sept. 29.

WATER TEMPERATURES: Maximum, 28.5°C July 27; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	91	87	88	113	97	104	101	93	97	124	110	115
2	92	88	91	111	97	101	117	98	105	118	90	103
3	98	90	94	99	89	94	119	107	111	88	76	79
4	97	90	94	97	92	95	134	109	117	87	80	83
5	94	77	81	96	90	94	111	102	106	93	85	88
6	82	76	80	97	91	94	146	107	121	95	92	94
7	87	81	84	97	92	94	144	111	121	137	94	101
8	104	86	92	97	95	96	112	102	107	117	73	91
9	111	104	108	96	85	90	105	95	99	76	74	75
10	112	103	108	88	74	79	103	96	100	81	75	79
11	115	103	109	81	75	78	100	94	98	90	80	84
12	118	108	112	78	75	76	101	96	99	93	88	90
13	113	107	111	74	70	72	102	94	98	167	89	98
14	113	108	111	76	71	73	102	97	100	159	110	119
15	115	107	112	78	72	75	102	95	97	175	123	157
16	117	111	115	75	69	72	106	100	103	146	110	124
17	116	101	108	81	69	73	115	99	105	108	102	105
18	111	99	106	85	81	82	109	100	105	102	95	97
19	114	108	111	107	81	93	115	101	107	96	93	94
20	112	102	108	110	102	106	116	106	112	96	90	93
21	110	97	104	106	78	91	167	110	129	243	91	130
22	111	97	104	80	73	77	120	108	115	126	98	107
23	110	97	103	74	72	73	173	111	144	98	93	97
24	104	95	100	80	72	77	169	121	144	113	81	96
25	113	96	103	75	71	73	129	104	111	71	58	64
26	110	100	106	78	72	75	110	104	107	75	66	71
27	110	100	106	76	70	74	111	103	106	82	75	78
28	111	97	104	75	70	72	115	102	108	89	75	83
29	112	101	107	98	74	91	137	102	114	84	79	81
30	109	97	104	105	91	98	114	108	111	87	80	83
31	109	96	101	---	---	---	117	113	115	87	82	84
MONTH	118	76	102	113	69	85	173	93	110	243	58	95

CONNECTICUT RIVER BASIN

151

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	89	83	86	102	91	95	77	73	75	64	62	62
2	92	83	89	97	92	94	74	71	72	64	60	62
3	86	82	84	95	91	93	77	74	75	63	62	62
4	84	81	83	90	87	89	76	73	75	64	62	63
5	85	80	82	90	79	85	78	75	76	66	63	64
6	87	83	85	79	53	61	76	72	75	68	65	66
7	86	82	84	61	54	57	74	72	74	70	66	67
8	87	82	84	65	61	64	75	71	73	75	70	72
9	89	84	86	66	65	65	77	73	75	78	74	76
10	93	86	88	69	66	67	77	72	74	86	78	82
11	92	84	88	66	61	63	78	75	76	102	85	89
12	90	84	88	67	62	64	77	75	76	115	94	107
13	89	84	87	69	66	67	76	71	74	141	116	128
14	90	85	88	72	69	71	75	71	73	141	130	135
15	92	84	89	71	67	68	71	69	70	136	128	132
16	93	86	90	70	66	68	71	69	69	134	120	126
17	92	86	90	73	70	71	69	67	68	130	109	122
18	93	88	91	75	70	72	69	68	68	107	96	99
19	92	88	90	77	72	75	68	66	67	96	92	93
20	104	87	93	77	75	76	72	66	68	94	91	93
21	145	95	113	77	73	76	74	70	72	94	91	93
22	165	139	152	76	71	73	76	73	74	94	89	92
23	162	148	154	72	69	70	79	75	77	89	85	87
24	157	86	113	72	69	70	83	78	81	90	73	83
25	93	78	83	72	66	69	83	79	81	73	53	61
26	87	77	83	68	65	66	87	83	85	57	54	56
27	92	83	87	69	65	67	87	57	68	58	57	58
28	98	87	91	70	66	68	59	55	57	62	58	60
29	---	---	---	71	68	70	60	58	59	62	56	57
30	---	---	---	73	70	71	64	60	61	60	58	58
31	---	---	---	76	73	74	---	---	---	62	59	60
MONTH	165	77	94	102	53	72	87	55	72	141	53	83
	JUNE			JULY			AUGUST			SEPTEMBER		
1	65	61	63	94	89	91	64	62	63	67	65	66
2	65	64	65	89	86	88	65	62	63	67	64	66
3	67	65	66	87	81	84	66	63	65	66	65	66
4	67	66	67	84	76	80	67	64	66	66	65	65
5	68	66	67	77	74	75	69	65	67	68	65	67
6	68	66	67	74	69	71	69	64	65	66	56	61
7	74	66	68	72	68	70	66	63	64	61	58	60
8	77	74	76	70	67	69	68	65	67	66	61	63
9	78	74	76	68	64	67	69	65	66	70	67	69
10	79	76	76	68	65	67	68	64	66	72	69	71
11	76	74	75	67	64	65	68	66	67	73	70	72
12	80	75	77	68	65	67	67	65	66	71	69	70
13	77	71	74	68	65	67	71	67	69	70	69	70
14	78	71	75	65	63	64	73	70	71	70	63	66
15	79	74	76	63	61	62	76	72	74	68	64	67
16	79	76	78	62	60	61	81	76	79	70	68	69
17	82	77	79	62	61	61	90	82	85	70	68	69
18	81	78	80	64	61	62	92	79	85	69	67	68
19	80	77	78	72	64	68	80	66	71	70	66	68
20	87	80	83	74	72	73	69	66	67	70	68	69
21	92	83	86	76	74	75	70	64	67	70	67	69
22	94	90	92	78	76	77	68	66	66	68	63	65
23	101	93	97	79	76	78	68	66	67	65	64	65
24	101	95	96	80	77	79	69	66	67	66	62	64
25	95	90	93	80	78	80	66	64	65	66	62	64
26	94	88	90	81	79	80	69	65	67	72	67	70
27	92	89	90	81	79	80	67	64	66	74	70	72
28	95	92	93	82	69	74	65	63	64	71	45	59
29	95	91	93	74	66	68	66	64	65	58	43	53
30	94	91	92	67	65	66	66	63	64	61	59	60
31	---	---	---	65	63	64	67	64	66	---	---	---
MONTH	101	61	80	94	60	72	92	62	68	74	43	66

CONNECTICUT RIVER BASIN

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

153

01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.0	14.0	15.0	23.0	20.0	21.0	22.5	19.5	20.5	22.0	19.5	20.5
2	15.0	13.0	14.0	23.0	19.5	21.0	23.5	19.5	21.5	21.5	19.5	20.0
3	13.5	12.5	13.0	24.5	20.0	22.0	23.0	19.5	21.5	22.5	20.0	21.0
4	13.0	12.5	13.0	22.0	19.0	20.5	22.0	19.0	20.0	24.0	20.0	21.5
5	14.5	12.0	13.5	20.0	17.5	18.5	23.0	19.0	20.5	22.5	21.0	21.5
6	13.5	12.5	13.5	20.0	16.0	18.0	21.0	19.0	20.0	21.0	19.5	20.0
7	14.5	12.5	13.5	19.5	15.5	17.5	21.0	18.0	19.5	22.0	20.0	21.0
8	17.5	14.5	16.0	21.5	16.0	18.5	21.5	18.5	19.5	21.5	19.0	20.5
9	19.5	17.5	18.5	22.0	17.0	19.5	21.5	18.0	19.5	21.5	18.0	19.5
10	20.0	18.0	19.0	22.0	18.0	19.5	21.0	18.5	19.5	20.5	16.5	18.5
11	19.5	16.5	18.5	21.0	18.5	19.5	18.5	16.5	18.0	20.5	18.5	19.0
12	18.0	15.0	16.5	21.5	18.0	19.5	16.5	15.0	15.5	20.0	18.0	18.5
13	18.0	15.0	16.0	23.0	17.5	20.0	17.5	14.5	16.0	20.0	18.0	19.0
14	20.0	14.5	17.0	24.0	20.0	21.5	19.0	16.0	17.5	20.0	19.0	19.5
15	22.0	15.5	19.0	24.0	21.0	22.5	19.0	15.5	17.5	20.5	18.5	19.5
16	24.0	18.5	21.0	24.5	21.0	22.0	20.5	16.0	18.0	19.5	17.0	18.5
17	24.5	19.5	22.0	25.0	20.5	22.5	20.5	16.0	18.5	20.0	17.0	18.5
18	25.0	20.5	22.5	24.0	22.0	23.0	18.0	16.5	17.0	20.5	18.5	19.5
19	24.0	19.5	21.5	27.0	22.0	24.0	17.5	16.0	16.5	20.0	17.0	19.0
20	24.0	18.5	21.0	25.5	21.0	23.5	19.5	16.0	18.0	18.5	15.0	16.5
21	23.5	18.5	20.5	26.0	22.0	24.0	20.0	18.0	19.0	16.0	14.5	15.5
22	20.5	18.0	19.5	27.0	22.0	24.5	20.5	18.5	19.5	17.0	15.5	16.5
23	22.0	18.5	20.0	27.5	22.5	25.0	20.5	18.5	19.5	17.0	15.5	16.5
24	20.5	16.5	18.5	26.5	23.5	25.0	19.5	18.0	19.0	17.0	15.5	16.0
25	22.0	16.0	19.0	28.0	23.5	25.5	20.0	18.0	19.0	17.5	14.5	15.5
26	21.5	15.5	18.5	27.5	24.5	25.5	21.5	19.0	20.0	18.0	14.0	16.0
27	21.5	16.5	19.0	28.5	24.5	26.5	22.0	19.5	20.5	17.5	14.0	15.5
28	23.0	18.0	20.0	27.0	24.0	25.5	21.5	20.0	20.5	17.5	15.0	16.0
29	23.5	18.5	21.0	26.0	22.0	24.0	22.0	20.0	21.0	18.5	17.0	18.0
30	22.5	19.5	21.0	24.0	20.5	22.0	22.5	20.0	21.0	18.0	16.5	17.0
31	---	---	---	23.0	20.0	21.5	23.5	20.5	21.5	---	---	---
MONTH	25.0	12.0	18.0	28.5	15.5	22.0	23.5	14.5	19.0	24.0	14.0	18.5

CONNECTICUT RIVER BASIN

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.214) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir. Chemical quality records available for water years 1956, 1960 (WSP 1741), 1971-72 (WRDC 1971-72).

AVERAGE DISCHARGE (adjusted for storage and diversion).--38 years, 86.0 ft³/s (2.436 m³/s), 25.72 in/yr (653 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)
Jan. 8	1230	949 26.9	3.17 0.966	Mar. 6	2130	2230 63.2	5.01 1.527
21	2030	1010 28.6	3.26 0.994	July 26	2100	830 23.5	3.00 0.914
25	0700	*3040 86.1	*6.53 1.990	Aug. 3	2400	977 27.7	3.21 0.978
Feb. 25	0100	1150 32.6	3.46 1.055				

Minimum discharge, 14 ft³/s (0.40 m³/s) est. Nov. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	29	121	106	165	70	142	66	58	23	24
2	23	20	25	228	90	132	70	123	61	34	27	23
3	23	20	24	174	80	108	92	115	60	30	132	34
4	24	19	60	85	70	113	101	158	60	28	121	26
5	23	16	50	62	65	142	108	121	60	27	30	26
6	95	16	33	52	55	1690	96	101	58	27	27	132
7	27	15	28	57	50	1200	85	92	56	27	24	49
8	23	15	31	613	50	403	76	85	54	27	27	32
9	22	15	115	180	47	230	80	80	54	26	24	27
10	22	14	72	105	45	225	115	76	53	26	41	26
11	21	14	40	88	44	540	121	70	52	26	63	26
12	21	14	34	54	43	291	108	66	47	26	169	24
13	21	18	32	50	41	176	96	92	42	25	126	24
14	23	19	31	136	40	162	105	90	41	27	45	32
15	21	19	28	121	38	152	142	90	40	25	36	29
16	20	19	27	77	36	121	142	78	38	27	32	23
17	19	25	33	59	35	110	142	68	37	40	30	24
18	20	48	28	54	34	101	123	63	38	28	52	23
19	22	31	25	47	40	94	110	65	41	27	74	24
20	23	23	25	46	45	92	99	65	40	25	56	24
21	21	21	70	444	68	85	92	61	35	24	38	76
22	20	21	35	378	87	80	83	58	35	23	33	184
23	22	20	29	169	59	78	78	121	35	23	30	50
24	23	30	26	145	494	76	74	197	32	23	32	36
25	21	23	34	1990	547	118	68	350	32	29	38	32
26	23	21	31	800	268	110	68	309	32	85	29	30
27	44	22	27	250	152	101	251	165	32	45	27	28
28	23	24	25	200	148	96	355	121	32	26	27	27
29	20	25	24	150	---	85	262	104	33	23	32	50
30	20	53	23	130	---	78	197	90	37	23	31	34
31	20	---	25	120	---	72	---	76	---	23	27	---
TOTAL	773	659	1119	7185	2877	7226	3609	3492	1333	933	1503	1199
MEAN	24.9	22.0	36.1	232	103	233	120	113	44.4	30.1	48.5	40.0
MAX	95	53	115	1990	547	1690	355	350	66	85	169	184
MIN	19	14	23	46	34	72	68	58	32	23	23	23
(†)	+1.9	+2.1	+2.2	+3.2	+3.6	+3.2	+3.4	+3.2	+2.4	+2.9	+2.3	+2.8
MEAN ‡	26.8	24.1	38.3	235	107	236	123	116	46.8	33.0	50.8	42.8
CFSM ‡	0.59	0.53	0.84	5.18	2.36	5.20	2.71	2.56	1.03	0.73	1.12	0.94
IN ‡	0.68	0.59	0.97	5.97	2.46	6.00	3.02	2.95	1.15	0.84	1.29	1.05

CAL YR 1978 TOTAL 29078 MEAN 79.7 MAX 590 MIN 14 MEAN ‡ 84.7 CFSM ‡ 1.87 IN ‡ 25.27
WTR YR 1979 TOTAL 31908 MEAN 87.4 MAX 1990 MIN 14 MEAN ‡ 90.2 CFSM ‡ 1.99 IN ‡ 26.97

† Change in contents in and diversion for municipal supply of city of New Britain from Whigville Reservoir, equivalent in cubic feet per second; records furnished by city of New Britain.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

155

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) downstream from Farmington River.

DRAINAGE AREA.--57.2 mi² (148.1 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1515	20	340	6.6	11.0	10.0	30	6.0	3.4	30	590000	110000
NOV												
13...	1100	18	400	6.7	7.0	7.0	30	2.0	1.4	11	740000	140000
DEC												
14...	0900	29	335	7.1	2.5	3.0	20	2.0	7.2	53	500000	90000
JAN												
09...	1128	149	170	6.9	2.5	1.0	20	2.0	13.0	92	110000	24000
FEB												
21...	1120	40	490	6.9	4.0	.5	10	10	8.7	60	1200000	250000
MAR												
06...	0930	1705	115	6.3	11.0	5.5	20	1.0	9.2	72	100000	18000
APR												
17...	0925	145	180	6.7	10.0	7.0	15	6.0	7.8	64	230000	22000
MAY												
07...	1120	92	190	7.1	18.0	13.5	10	3.0	6.9	66	3500	50
JUN												
11...	1400	49	220	6.8	24.0	21.0	5	2.0	4.1	46	60000	14000
JUL												
16...	1200	26	245	6.5	29.0	24.0	10	1.0	1.5	18	190000	40
AUG												
06...	1100	26	225	6.5	24.0	22.0	45	4.0	1.9	22	60000	500
SEP												
17...	1140	25	278	7.0	24.0	17.0	15	2.0	2.2	23	50000	560

DATE	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)	ALKA- LINITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
16...	5000	--	--	--	--	--	--	--	27	--	174	.24
NOV												
13...	15000	--	--	--	--	--	--	--	30	--	191	.26
DEC												
14...	42000	60	5	18	3.7	55	--	34	43	13	187	.25
JAN												
09...	3600	--	--	--	--	--	--	--	15	--	74	.10
FEB												
21...	1900	--	--	--	--	--	--	--	120	--	318	.43
MAR												
06...	14000	25	8	7.4	1.6	17	--	12	14	6.4	73	.10
APR												
17...	5800	--	--	--	--	--	--	--	16	--	96	.13
MAY												
07...	20	44	19	13	2.7	25	--	19	21	8.1	112	.15
JUN												
11...	96	--	--	--	--	--	--	--	25	--	126	.17
JUL												
16...	400	--	--	--	--	--	--	--	33	--	166	.23
AUG												
06...	340	59	12	18	3.3	47	29	22	22	11	144	.20
SEP												
17...	70	--	--	--	--	--	--	--	30	--	173	.24

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 16...	9.58	186	--	--	.73	6.1	--	2.9	9.0	9.7	43
NOV 13...	9.28	202	--	--	.38	9.1	--	3.9	13	13	59
DEC 14...	14.6	205	--	--	1.1	4.3	--	.90	5.2	6.3	28
JAN 09...	29.7	81	--	--	.54	.47	--	.21	.68	1.2	5.4
FEB 21...	34.3	346	--	--	1.2	3.7	--	1.0	4.7	5.9	26
MAR 06...	336	80	--	--	.50	.70	--	.40	1.1	1.6	7.1
APR 17...	37.6	109	--	--	.71	.81	--	.49	1.3	2.0	8.9
MAY 07...	27.8	112	--	--	.78	1.1	1.3	.60	1.7	2.5	11
JUN 11...	16.7	152	--	--	1.0	2.6	3.1	.00	2.6	3.6	16
JUL 16...	12.0	184	--	--	.58	5.1	6.2	15	20	21	91
AUG 06...	10.1	184	--	--	.63	2.8	3.4	.40	3.2	3.8	17
SEP 17...	11.8	208	1.2	.11	1.3	5.1	6.2	.10	5.2	6.5	29

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 16...	1.6	--	10	--	--	40	10	.50	--	--
NOV 13...	2.2	--	12	--	--	20	15	--	--	--
DEC 14...	1.2	--	12	350	160	50	11	.30	.000	.000
JAN 09...	.21	--	10	--	--	20	6.0	--	--	--
FEB 21...	1.0	--	54	--	--	160	7.8	--	--	--
MAR 06...	.28	--	20	220	100	50	8.4	.00	.000	.000
APR 17...	.33	--	14	--	--	50	6.8	--	--	--
MAY 07...	.27	.83	18	300	130	60	5.9	.10	4.59	.000
JUN 11...	.80	2.5	13	--	--	30	8.7	--	--	--
JUL 16...	1.7	5.2	9	--	--	10	8.7	--	--	--
AUG 06...	.75	2.3	17	690	430	50	9.3	.30	2.75	.000
SEP 17...	1.5	4.6	16	--	--	40	11	--	--	--

CONNECTICUT RIVER BASIN

157

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
DEC 14...	1310	474	155	7.1	1.0	1.5	25	1.0	13.3	95	160000
MAR 06...	1245	6208	72	6.3	11.5	3.0	20	2.0	13.9	103	16000
MAY 07...	1400	1650	87	6.5	24.0	14.5	5	1.0	9.4	91	240
AUG 06...	1340	798	89	6.4	29.0	23.0	17	1.0	7.6	87	10000

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 AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)
DEC 14...	22000	1800	35	11	9.7	2.5	24	--	15	17	7.2
MAR 06...	3800	3500	16	3	4.4	1.3	13	--	8.0	10	4.9
MAY 07...	K8	K11	23	5	6.6	1.6	18	--	8.8	9.8	5.4
AUG 06...	1100	250	24	8	7.1	1.6	16	12	10	9.8	4.7

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)
DEC 14...	84	.11	108	97	.57	.88	--	.32	1.2	1.8	7.8
MAR 06...	50	.07	838	77	.25	.10	--	.43	.53	.78	3.5
MAY 07...	57	.08	254	60	.29	.18	.22	.28	.46	.75	3.3
AUG 06...	62	.08	134	76	.31	.26	.31	.29	.55	.86	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)
DEC 14...	.33	--	4	180	20	10	3.0	.10	.000	.000
MAR 06...	.16	--	0	180	70	0	5.6	.00	3.22	.000
MAY 07...	.21	.54	4	160	60	10	2.7	.00	.250	.000
AUG 06...	.16	.49	5	160	70	30	2.4	.00	.000	.000

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

CONNECTICUT RIVER BASIN

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.--571 mi² (1,479 km²).

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. 214), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs.

AVERAGE DISCHARGE (adjusted for storage and diversion)--8 years, 1,478 ft³/s (41.86 m³/s), 35.13 in/yr (892 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, 9,920 ft³/s (281 m³/s) Mar. 7, gage height, 8.46 ft (2.579 m); minimum, 220 ft³/s (6.23 m³/s) Oct. 17, 18, July 24, gage height, 1.00 ft (0.305 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	294	735	392	1240	1920	2240	3270	2930	469	601	822
2	735	352	465	1460	1000	1570	2210	3060	2590	520	618	766
3	756	602	369	3330	1220	1410	2250	2850	2370	471	656	754
4	770	641	346	2310	1200	1410	2450	2800	2260	520	1020	732
5	838	628	490	1250	1140	1600	2430	2370	2360	590	1110	716
6	1000	621	528	866	852	5580	2440	1940	2420	592	816	930
7	1050	621	452	742	1270	9550	2190	1720	2310	579	678	1300
8	552	628	421	2930	1150	8600	1850	1460	1570	571	651	965
9	346	667	589	3990	1040	5450	1900	1300	995	562	644	677
10	300	667	1100	2500	951	3850	2590	1270	896	564	648	552
11	270	615	852	1370	800	4850	2540	1100	853	554	813	626
12	270	596	609	1000	750	4830	2280	1020	864	558	1090	752
13	260	577	528	1010	730	3620	2050	950	817	567	1700	773
14	250	571	477	1330	700	2890	2000	950	729	556	1180	780
15	290	546	446	1440	680	2880	2550	960	667	551	628	843
16	235	528	409	1180	680	2590	2630	920	670	603	472	838
17	220	522	409	973	670	2310	2710	930	624	696	411	800
18	235	516	403	845	670	2020	2520	865	589	536	390	769
19	245	357	346	958	660	1850	2490	878	567	448	667	753
20	294	300	421	965	650	1870	2370	866	536	368	717	694
21	324	352	452	1280	650	1870	1790	792	505	317	765	614
22	312	565	571	3370	742	1950	1430	827	455	298	833	1180
23	294	596	497	2950	829	2090	1300	800	437	283	809	1700
24	300	634	421	2220	1990	2180	1760	1580	404	270	829	1290
25	300	647	369	6130	3840	2700	1190	3370	371	264	859	767
26	289	628	503	7100	3030	3190	1160	5200	369	275	898	509
27	312	589	503	5510	2130	2980	3510	4540	379	416	864	433
28	363	596	471	3220	1770	2970	6000	3080	366	532	859	654
29	330	571	374	2450	---	2890	5240	2960	345	638	829	811
30	289	694	335	1960	---	2830	3830	3270	349	626	817	960
31	283	---	277	1520	---	2420	---	3120	---	615	834	---
TOTAL	13047	16721	15168	68551	33034	98720	73400	61018	31597	15409	24706	24760
MEAN	421	557	489	2211	1180	3185	2447	1968	1053	497	797	825
MAX	1050	694	1100	7100	3840	9550	6000	5200	2930	696	1700	1700
MIN	220	294	277	392	650	1410	1160	792	345	264	390	433
(†)	-127.4	-225.6	+91.5	+333.6	+179.4	+789.0	+233.6	+251.3	-210.2	-165.5	-265.8	-136.0
MEAN ‡	294	331	581	2545	1359	3974	2681	2219	843	331	531	689
CFSM ‡	0.51	0.58	1.02	4.46	2.38	6.96	4.70	3.89	1.48	0.58	0.93	1.21
IN ‡	0.59	0.65	1.18	5.14	2.48	8.02	5.24	4.48	1.65	0.67	1.07	1.35
CAL YR 1978 TOTAL	471133			MEAN 1291	MAX 7650	MIN 220						
WTR YR 1979 TOTAL	476131			MEAN 1304	MAX 9550	MIN 220	MEAN ‡ 1259	CFSM ‡ 2.20	IN ‡ 29.89			
							MEAN ‡ 1410	CFSM ‡ 2.47	IN ‡ 32.52			

† 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, 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

159

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1130	242	165	6.7	6.0	11.0	15	1.0	9.1	82	7000	1200
NOV												
13...	1530	576	106	6.4	8.0	8.0	20	2.0	12.3	103	80000	3700
DEC												
14...	1410	474	150	7.1	1.5	2.0	25	1.0	13.3	96	30000	6100
JAN												
09...	1545	3820	95	7.0	-3.5	.5	10	7.0	13.6	92	14000	3000
FEB												
21...	1420	612	152	6.7	2.0	.0	10	4.0	12.7	87	52000	18000
MAR												
06...	1430	6750	62	6.4	10.5	1.0	10	10	13.8	97	16000	3700
APR												
17...	1220	2800	82	6.6	14.0	7.0	15	6.0	11.8	97	12000	1700
MAY												
07...	1520	1540	91	6.6	25.0	13.5	10	3.0	9.8	93	720	32
JUN												
18...	1015	552	126	6.9	25.0	23.0	5	2.0	9.0	102	4800	84
JUL												
16...	1515	594	100	6.6	33.0	25.5	5	1.0	7.8	94	20000	130
AUG												
06...	1500	768	98	6.4	27.0	23.5	12	2.0	7.5	87	22000	170
SEP												
17...	1500	774	97	6.8	25.0	19.0	16	1.0	8.8	95	6500	100

DATE	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											
16...	25	--	--	--	--	--	--	19	--	93	.13
NOV											
13...	90	--	--	--	--	--	--	8.9	--	57	.08
DEC											
14...	440	35	13	10	2.5	22	15	16	7.8	89	.12
JAN											
09...	1000	--	--	--	--	--	--	12	--	61	.08
FEB											
21...	3100	--	--	--	--	--	--	17	--	93	.13
MAR											
06...	14000	15	6	4.2	1.1	9	6.4	7.6	4.5	48	.07
APR											
17...	380	--	--	--	--	--	--	11	--	57	.08
MAY											
07...	K6	26	9	7.7	1.7	17	11	11	5.8	61	.08
JUN											
18...	43	--	--	--	--	--	--	13	--	81	.11
JUL											
16...	24	--	--	--	--	--	--	12	--	78	.11
AUG											
06...	140	28	12	8.3	1.7	16	10	9.9	5.2	69	.09
SEP											
17...	50	--	--	--	--	--	--	10	--	66	.09

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

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 16...	60.8	100	--	--	.97	.44	--	.29	.73	1.7	7.5
NOV 13...	88.6	67	--	--	.46	.48	--	.05	.53	.99	4.4
DEC 14...	114	96	--	--	.75	.55	--	.40	.95	1.7	7.5
JAN 09...	629	100	--	--	.36	.13	--	.21	.34	.70	3.1
FEB 21...	154	99	--	--	.82	.75	--	.25	1.0	1.8	8.1
MAR 06...	475	66	--	--	.22	.15	--	.75	.90	1.1	5.0
APR 17...	431	65	--	--	.31	.14	--	.08	.22	.53	2.3
MAY 07...	254	61	--	--	.42	.14	.17	.30	.44	.86	3.8
JUN 18...	121	85	--	--	.71	.13	.16	.38	.51	1.2	5.4
JUL 16...	125	78	--	--	.55	.13	.16	.31	.44	.99	4.4
AUG 06...	143	77	--	--	.42	.16	.19	.41	.57	.99	4.4
SEP 17...	138	--	.53	.02	.55	.20	.24	.40	.60	1.2	5.1

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 16...	.33	--	5	--	--	20	7.1	.10	--	--
NOV 13...	.15	--	1	--	--	10	3.4	--	--	--
DEC 14...	.28	--	4	170	60	20	15	.10	.000	.000
JAN 09...	.14	--	4	--	--	20	5.3	--	--	--
FEB 21...	.20	--	10	--	--	60	2.6	--	--	--
MAR 06...	.22	--	5	220	100	10	5.9	.00	.000	.000
APR 17...	.06	--	4	--	--	10	2.9	--	--	--
MAY 07...	.08	.25	4	160	50	10	3.2	.00	.580	.000
JUN 18...	.33	1.0	10	--	--	20	4.2	--	--	--
JUL 16...	.23	.71	4	--	--	10	6.6	--	--	--
AUG 06...	.18	.55	9	190	80	20	5.9	.10	4.47	.000
SEP 17...	.15	.46	8	--	--	10	3.8	--	--	--

CONNECTICUT RIVER BASIN

161

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, 28.0°C July 21, 1977; minimum daily recorded, 0.0°C March 6-7, 1978, February 1, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum daily, 30.5°C July 24, Aug. 6; minimum daily recorded, 4.0°C Apr. 4, 10-11. Farmington River, maximum, 27.5°C Aug. 2-3; minimum daily recorded 0.0°C Feb. 1.

TAKEN IN FISHWAY

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

TAKEN IN FISHWAY

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1							---	---	---	16.0	14.5	15.0
2							6.5	6.0	6.5	15.5	14.0	14.5
3							7.0	5.0	6.0	14.5	13.5	14.0
4							6.0	4.0	5.0	13.5	12.5	13.0
5							6.0	4.5	5.0	13.5	12.5	13.0
6							6.0	5.0	5.5	14.0	13.0	13.5
7							5.5	5.0	5.5	16.0	13.0	14.0
8							6.0	4.5	5.0	19.0	14.5	16.0
9							5.0	5.0	5.0	19.0	15.5	17.5
10							5.0	4.0	4.5	---	---	---
11							5.5	4.0	5.0	---	---	---
12							8.0	5.0	6.5	---	---	---
13							8.5	7.0	7.5	20.0	18.5	19.0
14							8.5	8.0	8.0	20.0	17.5	18.5
15							8.0	7.0	7.5	20.0	18.0	19.0
16							7.0	6.0	6.5	18.5	17.5	18.0
17							6.5	6.0	6.0	18.0	17.0	17.5
18							7.5	6.5	7.0	17.5	16.5	17.0
19							8.5	7.0	7.5	17.0	17.0	17.0
20							9.5	8.0	8.5	19.5	17.0	18.0
21							11.5	8.5	9.5	20.0	17.5	18.5
22							10.5	9.5	10.0	19.5	17.5	18.5
23							13.0	10.0	11.0	17.5	16.5	17.0
24							14.0	12.0	13.0	16.5	14.5	15.5
25							14.5	12.5	13.5	15.5	14.0	14.5
26							14.0	13.0	13.5	16.0	15.0	15.5
27							14.0	13.0	13.5	16.5	15.5	16.0
28							13.5	12.5	13.0	19.0	15.5	16.5
29							14.5	13.0	14.0	17.0	16.0	16.5
30							16.5	14.0	15.0	19.5	16.5	17.5
31							---	---	---	19.0	17.0	18.0
MONTH							16.5	4.0	8.5	20.0	12.5	16.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.5	18.0	18.0	24.0	22.5	23.0	30.0	28.0	29.0	26.5	24.0	25.0
2	19.0	17.5	18.5	25.0	23.0	24.0	29.5	27.5	28.5	26.0	23.5	24.5
3	18.5	16.5	17.5	24.0	23.0	24.0	29.5	27.5	28.5	26.0	24.0	25.0
4	19.5	16.0	17.5	24.5	23.0	23.5	29.0	27.5	28.5	26.5	24.0	25.0
5	18.5	16.5	17.5	24.0	23.0	23.5	28.5	27.5	28.0	---	---	---
6	20.0	16.0	17.0	23.0	22.0	22.5	30.5	27.0	28.5	---	---	---
7	18.5	16.0	17.0	23.0	21.5	22.0	27.5	25.5	26.5	---	---	---
8	19.5	18.0	18.5	24.0	21.5	22.5	27.5	25.0	26.0	---	---	---
9	20.0	19.0	19.5	25.5	22.0	23.5	26.5	25.0	25.5	---	---	---
10	---	---	---	27.0	23.0	24.5	26.0	24.5	25.0	---	---	---
11	---	---	---	26.0	23.0	24.5	24.5	23.0	23.5	---	---	---
12	---	---	---	25.5	22.5	24.0	23.0	21.0	22.0	---	---	---
13	---	---	---	26.5	24.0	25.0	21.5	20.5	21.0	---	---	---
14	---	---	---	28.0	24.5	26.0	20.0	19.0	19.5	---	---	---
15	---	---	---	29.5	26.0	27.0	19.0	18.5	18.5	---	---	---
16	---	---	---	28.0	25.5	27.0	19.5	18.0	18.5	---	---	---
17	---	---	---	29.0	27.0	28.0	20.0	18.5	19.0	---	---	---
18	---	---	---	27.5	26.0	26.5	19.5	19.0	19.0	21.0	19.5	20.0
19	---	---	---	27.0	25.5	26.5	20.0	18.5	19.0	20.0	19.0	19.5
20	---	---	---	28.5	25.5	26.5	20.0	18.5	19.5	19.5	18.5	19.0
21	---	---	---	29.0	26.5	27.5	22.0	20.0	20.5	18.5	18.0	18.0
22	---	---	---	28.5	26.5	27.5	23.5	21.0	22.0	18.0	17.5	17.5
23	---	---	---	29.0	26.0	27.5	24.0	22.0	22.5	17.0	16.5	16.5
24	---	---	---	30.5	27.0	28.5	22.5	22.0	22.0	17.0	16.0	16.5
25	---	---	---	29.5	27.5	28.0	24.5	22.0	23.0	17.0	16.0	16.5
26	---	---	---	30.0	27.5	28.0	24.5	22.0	23.0	18.0	16.0	17.0
27	---	---	---	29.0	27.5	28.0	25.0	23.0	24.0	18.0	16.5	17.0
28	24.0	22.0	23.0	29.5	27.0	28.0	26.0	23.0	24.0	18.0	16.5	17.0
29	24.5	22.0	23.0	30.0	28.0	28.5	25.5	23.5	24.5	17.5	16.5	17.0
30	25.5	22.5	23.5	29.5	28.0	28.5	26.0	23.5	24.5	17.0	17.0	17.0
31	---	---	---	30.0	27.0	28.5	25.5	24.0	24.5	---	---	---
MONTH	25.5	16.0	19.0	30.5	21.5	26.0	30.5	18.0	23.5	26.5	16.0	19.5

CONNECTICUT RIVER BASIN

163

01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

TAKEN IN TAILRACE

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

CONNECTICUT RIVER BASIN

01189999 FARMINGTON RIVER, AT RAINBOW FISHWAY, AT RAINBOW, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

TAKEN IN TAILRACE

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	17.5	18.0	22.0	21.0	21.5	27.0	26.5	27.0	---	---	---
2	17.5	16.5	17.0	22.5	21.5	22.0	27.5	26.5	27.0	---	---	---
3	16.5	16.0	16.5	22.5	22.0	22.0	27.5	26.5	27.0	---	---	---
4	16.5	15.5	16.0	23.5	22.0	22.5	27.0	26.5	26.5	---	---	---
5	16.0	15.5	16.0	23.0	22.0	22.5	27.0	26.0	26.5	---	---	---
6	16.5	16.0	16.5	22.5	21.5	22.0	26.5	25.5	26.0	---	---	---
7	16.5	16.0	16.5	21.5	20.5	21.0	26.0	25.0	25.5	---	---	---
8	18.0	17.0	17.5	21.0	20.5	21.0	25.5	24.0	25.0	---	---	---
9	19.0	17.0	18.0	21.5	20.5	21.0	24.5	23.5	24.0	---	---	---
10	---	---	---	22.0	21.0	21.5	---	---	---	---	---	---
11	---	---	---	22.5	21.0	21.5	---	---	---	---	---	---
12	---	---	---	22.5	21.5	22.0	---	---	---	---	---	---
13	---	---	---	23.0	22.0	22.5	---	---	---	---	---	---
14	---	---	---	24.0	22.0	23.0	---	---	---	---	---	---
15	---	---	---	24.0	23.0	23.5	---	---	---	---	---	---
16	---	---	---	24.5	23.5	24.0	---	---	---	---	---	---
17	---	---	---	25.0	23.5	24.5	---	---	---	---	---	---
18	---	---	---	25.5	24.0	24.5	---	---	---	19.5	18.5	18.5
19	---	---	---	25.5	24.5	25.5	---	---	---	19.0	18.5	18.5
20	---	---	---	25.5	25.0	25.0	---	---	---	18.5	17.5	18.0
21	---	---	---	26.0	24.5	25.0	---	---	---	17.5	16.5	17.0
22	---	---	---	26.0	25.0	25.0	---	---	---	16.5	16.5	16.5
23	---	---	---	25.5	25.0	25.0	---	---	---	16.5	16.0	16.0
24	---	---	---	26.0	25.0	25.0	---	---	---	16.0	15.5	15.5
25	---	---	---	25.5	25.0	25.5	---	---	---	15.5	15.0	15.5
26	---	---	---	26.0	25.0	25.5	---	---	---	16.0	15.5	15.5
27	---	---	---	26.5	25.0	25.5	---	---	---	16.0	15.5	15.5
28	22.0	21.0	21.5	26.5	25.5	26.0	---	---	---	16.0	15.5	15.5
29	21.5	21.0	21.5	26.5	26.0	26.0	---	---	---	16.0	15.5	16.0
30	22.5	21.0	21.5	27.0	26.0	26.5	---	---	---	16.5	16.0	16.0
31	---	---	---	27.0	26.0	26.5	---	---	---	---	---	---
MONTH	22.5	15.5	18.0	27.0	20.5	23.5	27.5	23.5	26.0	19.5	15.0	16.5

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.--583 mi² (1,510 km²).

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. 214), and by diversions for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs. Chemical analyses available for water years 1955 (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).--51 years, 1,091 ft³/s (30.90 m³/s), 25.41 in/yr (645 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, 10,700 ft³/s (303 m³/s) Mar. 7, gage height, 8.42 ft (2.57 m); minimum daily, 50 ft³/s (1.42 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	332	680	340	1160	1810	1980	2890	2760	474	494	533
2	777	332	500	1530	910	1520	2140	2700	2290	513	583	732
3	821	700	400	1270	1090	1390	1860	2590	2220	597	558	694
4	618	678	320	1600	1100	1280	1990	2390	1920	322	931	860
5	1010	689	600	899	1190	1540	2130	2110	2120	632	1180	937
6	1010	580	447	1050	832	4810	2140	1790	2000	542	894	723
7	1200	482	534	957	933	10200	2060	1590	2190	656	596	1100
8	543	777	491	1550	821	8960	1620	1270	1710	417	703	970
9	270	599	550	3320	1040	5030	1820	1180	913	583	521	582
10	311	710	1000	1760	843	3590	2210	1200	728	511	523	575
11	209	710	950	1390	608	4280	2110	927	754	559	1290	510
12	332	743	800	854	721	4410	2090	897	1090	854	855	699
13	354	414	200	969	788	3280	1870	729	651	523	1480	831
14	431	570	400	1460	689	2750	1850	1150	644	374	1320	875
15	219	580	300	1340	700	2660	2100	994	629	558	550	829
16	235	589	300	1040	721	2470	2160	972	701	616	513	728
17	177	618	450	887	543	1840	2560	900	416	551	426	869
18	456	517	450	876	391	2120	2140	747	805	880	260	663
19	164	264	250	700	599	1510	2150	906	501	438	611	666
20	422	340	500	854	589	1550	2140	869	265	437	762	726
21	241	361	350	1270	589	1640	1740	645	494	250	599	712
22	332	599	650	1310	710	1730	1200	832	509	163	1140	1190
23	332	570	600	1690	922	1660	1540	1020	344	394	625	1440
24	422	732	50	1820	1940	2090	1160	1480	506	197	821	1320
25	332	580	400	5260	3220	2180	1070	2540	323	222	810	696
26	224	811	450	7500	2940	2730	1100	4640	389	251	821	498
27	361	600	500	5310	2120	2730	2820	4200	419	237	872	365
28	500	580	350	3100	1520	2670	4980	2900	318	662	819	621
29	168	450	360	2280	---	2670	4670	2560	392	653	1020	817
30	368	600	318	2070	---	2650	3370	3000	418	498	832	1020
31	252	---	297	1750	---	2090	---	2880	---	867	752	---
TOTAL	13739	17107	14447	58006	30229	91840	64770	55498	29419	15231	24161	23831
MEAN	443	570	466	1871	1080	2963	2159	1790	981	491	779	794
MAX	1200	811	1000	7500	3220	10200	4980	4640	2760	880	1480	1440
MIN	164	264	50	340	391	1280	1070	645	265	163	260	365
(†)	-127.4	-225.6	+91.5	+333.6	+179.4	+789.0	+233.6	+251.3	-210.2	-165.5	-265.8	-136.0
MEAN ‡	316	344	558	2205	1259	3752	2393	2041	771	326	513	658
CFSM ‡	0.54	0.59	0.96	3.78	2.16	6.44	4.10	3.50	1.32	0.56	0.88	1.13
IN ‡	0.62	0.66	1.11	4.36	2.25	7.42	4.57	4.04	1.47	0.65	1.02	1.26
CAL YR 1978 TOTAL	448681			1229		7580		MIN 50	MEAN ‡ 1197		CFSM ‡ 2.05	IN ‡ 27.87
WTR YR 1979 TOTAL	438278			MEAN 1201		MAX 10200		MIN 50	MEAN ‡ 1307		CFSM ‡ 2.24	IN ‡ 29.43

† 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, 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

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
DEC 19...	1230	1.8	375	7.1	1.0	3.0	10	20	13.4	99	630
MAR 05...	1315	16	185	6.7	15.0	5.0	15	1.0	10.4	81	7600
MAY 16...	1600	14	240	6.8	23.5	22.0	20	3.0	7.8	86	1500
AUG 20...	1530	8.9	280	7.1	28.0	20.0	10	1.0	10.4	113	2000

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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)
DEC 19...	100	200	140	83	42	7.7	54	--	59	32	15
MAR 05...	840	320	59	40	18	3.4	19	--	27	22	9.1
MAY 16...	170	62	92	45	29	4.8	47	--	36	24	9.1
AUG 20...	500	210	110	51	34	5.1	55	8.5	42	25	12

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)
DEC 19...	232	.32	1.13	251	3.0	.02	--	1.6	1.6	4.6	20
MAR 05...	126	.17	5.44	133	1.1	.11	--	.42	.53	1.6	7.2
MAY 16...	158	.21	5.97	174	1.4	.02	.02	.50	.52	1.9	8.5
AUG 20...	204	.28	4.91	212	1.6	.01	.01	.20	.21	1.8	8.0

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)
DEC 19...	.01	--	0	100	410	0	38	.00	3.00	.000
MAR 05...	.03	--	2	130	460	0	4.2	.00	2.20	.000
MAY 16...	.08	.25	2	310	100	0	6.5	.00	.000	.000
AUG 20...	.02	.06	2	50	40	2	3.4	.00	.000	.000

CONNECTICUT RIVER BASIN

167

01190055 PODUNK RIVER NEAR SOUTH WINDSOR, CT

LOCATION.--Lat 41°49'17", long 72°35'19", Hartford County, Hydrologic Unit 01080205, 50 ft (15 m) downstream from Vintons Millpond, upstream from State Highway 30.

DRAINAGE AREA.--11.9 mi² (30.8 km²).

PERIOD OF RECORD.--June 1975 to current year. Discontinued April 20, 1979.

GAGE.--Water-stage recorder. Datum of gage is 37.92 ft (11.558 m) National Geodetic Vertical Datum of 1929.

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); minimum daily, 0.4 ft³/s (0.011 m³/s), regulated Nov. 19, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 910 ft³/s (25.8 m³/s) Jan. 25, gage height, 8.45 ft (2.576 m); minimum daily, 0.4 ft³/s (0.011 m³/s), regulated Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.0	7.3	13	15	39	15					
2	5.8	3.2	6.7	51	11	24	15					
3	5.8	4.0	6.1	66	10	24	23					
4	5.8	4.3	5.5	17	9.3	22	21					
5	5.8	4.5	7.0	10	9.0	21	23					
6	13	4.3	7.0	9.0	8.1	176	16					
7	16	4.3	6.4	8.1	7.3	170	14					
8	10	4.3	5.5	191	7.3	62	12					
9	6.5	4.5	15	58	7.0	36	23					
10	4.6	4.5	27	18	6.7	34	47					
11	3.7	4.3	12	12	6.4	105	25					
12	3.7	4.3	10	9.0	5.8	49	18					
13	3.7	4.0	9.3	8.4	5.8	30	15					
14	4.5	3.4	9.0	81	5.8	23	18					
15	6.1	4.3	8.7	33	5.8	27	24					
16	6.1	3.8	7.5	15	5.2	21	24					
17	5.2	2.2	7.0	10	5.0	20	25					
18	4.7	2.0	6.4	9.0	4.7	19	19					
19	5.5	4.0	5.5	8.4	4.5	15	16					
20	7.3	7.0	4.3	8.1	4.5	18	15					
21	7.0	9.0	6.1	167	4.5	18	---					
22	5.8	2.0	8.4	152	7.5	17	---					
23	5.2	3.4	8.4	48	12	16	---					
24	4.5	8.1	7.5	32	84	15	---					
25	4.5	9.0	7.8	361	108	17	---					
26	4.3	7.5	11	105	45	16	---					
27	6.4	5.5	10	62	39	14	---					
28	7.0	4.3	8.7	38	39	14	---					
29	6.1	3.7	7.8	28	---	14	---					
30	4.7	5.5	6.7	22	---	14	---					
31	4.3	---	5.5	18	---	15	---					
TOTAL	187.9	121.20	261.1	1668.0	484.2	1117	---					
MEAN	6.06	4.04	8.42	53.8	17.3	36.0	---					
MAX	16	9.0	27	361	108	176	---					
MIN	3.7	4.0	4.3	8.1	4.5	14	---					
CFSM	.51	.34	.71	4.52	1.45	3.03	---					
IN.	.59	.38	.82	5.21	1.51	3.49	---					

CAL YR 1978 TOTAL 4527.80 MEAN 12.4 MAX 150 MIN .40 CFSM 1.04 IN 14.15

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 September 30, 1979.

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 excellent.

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.--April 19, 1979 to Sept. 30, 1979: maximum discharge, 152 ft³/s (4.30 m³/s) Apr. 27, gage height 5.53 ft (1.686 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	24	13	4.3	4.8	7.6
2							---	20	11	8.0	4.5	2.1
3							---	19	11	7.6	7.4	2.2
4							---	22	11	6.9	17	2.2
5							---	19	12	6.7	13	2.6
6							---	17	14	6.6	8.1	10
7							---	16	11	6.5	6.1	11
8							---	15	9.4	6.2	14	7.6
9							---	14	9.0	5.9	10	6.1
10							---	13	8.7	5.8	8.2	6.0
11							---	12	8.4	5.8	13	5.8
12							---	11	8.2	5.6	40	5.6
13							---	13	7.7	5.5	66	5.5
14							---	16	7.5	5.1	20	6.2
15							---	18	7.3	5.1	14	7.8
16							---	14	7.2	5.3	14	6.5
17							---	12	6.9	5.0	14	5.8
18							---	12	9.7	4.9	9.3	5.6
19							21	12	11	4.8	10	5.4
20							19	12	9.1	4.6	9.1	5.3
21							18	11	7.2	4.5	7.7	7.1
22							17	10	6.6	4.3	6.9	39
23							15	17	6.9	7.0	6.5	20
24							16	41	6.9	8.1	6.5	9.6
25							15	69	6.8	5.1	9.0	7.9
26							16	38	7.1	5.7	15	7.5
27							47	22	7.2	10	15	6.8
28							75	21	7.1	7.9	20	6.5
29							42	25	7.2	5.9	15	17
30							28	18	7.8	5.1	11	14
31							---	15	---	4.8	9.2	---
TOTAL							---	598	262.9	184.6	424.3	252.3
MEAN							---	19.3	8.76	6.12	13.7	8.41
MAX							---	69	14	10	66	39
MIN							---	10	6.6	4.3	4.5	2.1
CF5M							---	1.50	.68	.47	1.06	.65
IN.							---	1.72	.76	.55	1.22	.73

CONNECTICUT RIVER BASIN

169

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.

		ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979											
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	3.91	3.99	4.99	12.13	8.30	21.02	17.65	18.39	11.42	3.64	3.75	5.26
	Date	6	24	25	26	26	8	30	27	1	18	12,13	6
	Time	1715	0945	1100	0515	0015	1615	2400	1100	1215	2230	1830, 1900	1430
Minimum	Elevation	-.15	.06	.76	1.08	1.81	3.37	7.27	1.41	.07	.21	.20	.62
	Date	9	20	28	1	19	5	13	20	25	30	26	18
	Time	1530	1345	2000	0015	1600	0415	2345	1800	1115	1400	0430	0845

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 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
18...	1120	1.0	148	7.1	8.5	10.5	20	4.0	10.1	90	72000	1700
NOV												
16...	1115	1.0	134	6.6	8.0	8.5	40	2.0	10.1	86	110000	3200
DEC												
15...	1210	1.0	135	7.3	3.0	.5	20	2.0	13.4	93	68000	3900
JAN												
12...	1055	1.0	105	7.2	<-5.0	.5	10	6.0	14.3	99	10000	2100
FEB												
16...	1110	1.0	125	6.8	<-5.0	.0	20	2.0	14.4	99	3500	580
MAR												
12...	1220	1.0	71	6.8	3.0	2.0	15	2.0	14.9	107	4800	2000
APR												
16...	1220	1.0	90	6.6	6.5	5.5	10	5.0	12.0	99	16000	2000
MAY												
16...	1150	1.0	97	6.8	22.0	17.5	10	3.0	8.9	93	30000	2000
JUN												
15...	1100	1.0	107	6.5	25.0	20.5	5	2.0	8.8	97	34000	3000
JUL												
20...	1230	1.0	105	6.6	30.0	26.0	5	3.0	7.7	94	25000	2500
AUG												
09...	1245	1.0	142	7.7	26.5	25.0	7	2.0	8.1	96	22000	2000
SEP												
18...	1210	1.0	125	7.6	24.0	21.0	15	1.0	9.1	101	190000	1900

DATE	STREP- TOCOCCEI 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- LINITY AS (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											
18...	81	--	--	--	--	--	--	11	--	81	.11
NOV											
16...	1200	--	--	--	--	--	--	11	--	76	.10
DEC											
15...	2200	35	11	11	1.9	24	13	13	6.1	77	.10
JAN											
12...	540	--	--	--	--	--	--	11	--	74	.10
FEB											
16...	300	--	--	--	--	--	--	13	--	78	.11
MAR											
12...	300	21	9	6.6	1.1	12	7.7	6.7	5.0	52	.07
APR											
16...	400	--	--	--	--	--	--	8.7	--	60	.08
MAY											
16...	84	34	6	11	1.5	28	11	8.6	5.1	64	.09
JUN											
15...	2200	--	--	--	--	--	--	9.3	--	69	.09
JUL											
20...	K14	--	--	--	--	--	--	12	--	81	.11
AUG											
09...	27	43	13	14	2.0	30	13	15	3.7	94	.13
SEP											
18...	45	--	--	--	--	--	--	13	--	79	.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)

CONNECTICUT RIVER BASIN

171

01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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										
18...	99	--	--	.25	.07	--	.60	.67	.92	4.1
NOV										
16...	82	--	--	.42	.11	--	.34	.45	.87	3.9
DEC										
15...	85	--	--	.42	.20	--	.20	.40	.82	3.6
JAN										
12...	76	--	--	.41	.11	--	.36	.47	.88	3.9
FEB										
16...	85	--	--	.47	.22	--	.00	.19	.66	2.9
MAR										
12...	96	--	--	.31	.10	--	.38	.48	.79	3.5
APR										
16...	69	--	--	.30	.02	--	.14	.16	.46	2.0
MAY										
16...	64	--	--	.31	.08	.10	.31	.39	.70	3.1
JUN										
15...	91	--	--	.23	.05	.06	.24	.29	.52	2.3
JUL										
20...	88	--	--	.36	.10	.12	.28	.38	.74	3.3
AUG										
09...	96	--	--	.17	.15	.18	.18	.33	.50	2.2
SEP										
18...	96	.23	.01	.24	.13	.16	.36	.49	.73	3.2

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										
18...	.12	--	4	--	--	10	5.7	.00	--	--
NOV										
16...	.10	--	2	--	--	0	4.2	--	--	--
DEC										
15...	.09	--	4	120	20	0	4.4	.00	.000	.000
JAN										
12...	.05	--	3	--	--	20	5.4	--	--	--
FEB										
16...	.07	--	3	--	--	0	3.7	--	--	--
MAR										
12...	.09	--	4	100	30	20	5.7	.00	.000	.000
APR										
16...	.02	--	3	--	--	0	3.9	--	--	--
MAY										
16...	.15	.46	4	100	20	10	12	.00	2.68	.000
JUN										
15...	.05	.15	4	--	--	10	4.0	--	--	--
JUL										
20...	.06	.18	6	--	--	10	6.8	--	--	--
AUG										
09...	.07	.21	5	30	2	9	5.4	.10	13.7	.000
SEP										
18...	.10	.31	4	--	--	0	3.7	--	--	--

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).

WATER-DISCHARGE RECORDS

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.--43 years, 74.6 ft³/s (2.113 m³/s), 25.39 in/yr (645 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,320 ft³/s (151 m³/s) Sept. 27, 1975, on basis of slope-area measurement of peak flow; 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, 4,480 ft³/s (127 m³/s) Jan. 25, gage height, 11.71 ft (3.569 m); minimum, 9.4 ft³/s (0.27 m³/s) July 15; minimum gage height, 1.50 ft (0.457 m) Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	27	31	203	80	122	53	105	39	33	12	20
2	32	24	22	403	60	103	74	43	35	16	12	19
3	20	26	19	317	45	91	81	88	34	14	109	25
4	23	23	69	77	35	86	84	101	35	12	485	21
5	23	23	46	52	30	89	82	73	59	12	28	21
6	274	23	27	43	27	1180	57	84	50	12	19	148
7	35	23	22	97	25	826	47	84	34	11	23	45
8	23	23	26	1270	24	287	43	60	27	10	32	33
9	23	21	268	215	23	183	148	47	24	11	23	29
10	22	20	97	118	22	226	131	44	23	12	62	28
11	22	19	36	83	21	513	67	40	27	12	99	28
12	21	19	30	74	21	174	60	38	31	12	362	27
13	21	19	31	92	21	124	54	56	25	11	292	28
14	31	19	27	472	21	117	124	57	25	10	74	41
15	23	19	23	106	20	97	85	59	27	9.6	53	45
16	21	19	19	69	20	79	101	47	24	11	43	32
17	20	42	24	58	20	74	91	38	23	27	33	34
18	18	106	19	50	20	70	71	36	33	14	59	28
19	19	30	19	47	20	67	64	34	27	19	56	26
20	25	26	16	42	20	66	59	35	24	19	41	26
21	18	25	97	1220	29	64	53	33	24	17	38	73
22	16	21	35	562	95	63	50	33	22	15	31	334
23	18	18	23	190	59	63	51	109	20	18	27	53
24	22	38	20	245	531	60	48	160	17	20	25	36
25	24	19	61	2320	326	73	47	194	19	39	51	34
26	26	14	47	620	213	61	62	97	19	101	29	32
27	62	13	28	364	140	54	1230	69	18	119	48	32
28	27	18	22	239	176	56	362	111	14	22	29	37
29	24	23	20	176	---	59	192	76	13	17	25	52
30	24	90	18	135	---	57	140	66	14	17	24	24
31	25	---	21	107	---	54	---	43	---	16	22	---
TOTAL	1020	830	1263	10066	2144	5238	3794	2170	806	688.6	2266	1411
MEAN	32.9	27.7	40.7	325	76.6	169	126	70.0	26.9	22.2	73.1	47.0
MAX	274	106	268	2320	531	1180	1230	194	59	119	485	334
MIN	16	13	16	42	20	54	43	33	13	9.6	12	19
CFSM	.83	.69	1.02	8.15	1.92	4.24	3.16	1.75	.67	.56	1.83	1.18
IN.	.95	.77	1.18	9.38	2.00	4.88	3.54	2.02	.75	.64	2.11	1.32
CAL YR 1978 TOTAL	29438.0		MEAN 80.7	MAX 2190	MIN 10	CFSM 2.02	IN 27.45					
WTR YR 1979 TOTAL	31696.6		MEAN 86.8	MAX 2320	MIN 9.6	CFSM 2.18	IN 29.55					

CONNECTICUT RIVER BASIN

173

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. 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.--43 years, 38.6 ft³/s (1.093 m³/s), 20.88 in/yr (530 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, 25, 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, 1,660 ft³/s (47.0 m³/s) Jan. 25, gage height, 8.64 ft (2.633 m); minimum, 3.2 ft³/s (0.091 m³/s) July 22, 23, Sept. 21, gage height, 1.33 ft (0.405 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	8.7	16	102	37	92	48	51	17	13	5.3	5.0
2	4.6	11	9.6	277	30	73	59	43	14	11	5.0	4.0
3	4.2	9.1	9.6	231	22	66	64	38	20	7.9	31	5.5
4	3.7	9.1	20	85	18	50	60	46	29	5.8	53	5.0
5	4.8	7.9	24	44	16	164	38	39	25	4.5	7.5	4.7
6	51	9.1	13	16	13	837	29	32	29	4.0	5.3	34
7	8.7	13	8.7	20	12	342	32	31	16	4.0	5.0	17
8	4.5	11	8.3	549	10	114	177	27	14	3.8	10	7.9
9	3.6	10	92	175	9.5	75	92	23	12	3.8	6.8	5.8
10	3.8	9.0	63	88	9.0	305	51	21	9.7	4.5	7.9	5.0
11	4.0	8.0	22	48	9.0	132	37	18	11	5.0	38	4.5
12	4.0	7.0	19	13	9.0	67	37	15	13	4.5	99	3.6
13	4.5	8.0	10	12	8.5	60	106	26	12	4.3	90	3.4
14	6.8	6.0	10	239	8.5	46	76	30	8.8	5.0	23	5.0
15	7.9	5.4	9.5	58	8.0	38	92	30	6.5	4.5	12	10
16	5.8	4.2	9.0	36	8.0	36	63	21	6.8	6.1	8.3	5.8
17	5.5	5.0	9.6	22	8.0	32	47	17	6.5	6.8	6.1	4.5
18	5.5	24	13	14	8.0	31	35	17	11	5.8	12	6.1
19	6.5	7.5	7.1	12	8.0	30	22	18	13	6.1	26	5.8
20	12	5.8	6.1	13	8.5	30	20	21	6.8	4.7	13	5.5
21	6.5	4.2	30	392	9.6	29	19	21	5.8	4.3	9.2	7.5
22	5.0	4.5	21	547	47	30	18	15	5.3	3.3	8.8	80
23	7.1	4.5	11	235	39	42	17	41	5.3	3.1	7.1	20
24	7.9	9.1	8.7	113	476	44	21	90	5.3	4.0	6.8	8.8
25	6.1	8.3	13	1120	512	32	20	129	4.5	13	18	7.1
26	10	5.8	18	445	130	28	25	62	4.0	30	14	6.1
27	21	6.5	13	200	90	25	701	39	4.0	37	12	5.5
28	16	8.7	10	114	174	28	335	41	4.7	9.2	10	7.1
29	13	6.1	10	87	---	26	113	42	6.1	6.8	7.1	39
30	9.1	30	8.7	64	---	26	67	27	6.8	7.9	7.5	13
31	8.3	---	7.5	53	---	24	---	23	---	7.5	6.5	---
TOTAL	265.5	266.5	530.4	5424	1737.6	2954	2521	1115	332.9	241.2	571.2	342.2
MEAN	8.56	8.88	17.1	175	62.1	95.3	84.0	36.0	11.1	7.8	18.4	11.4
MAX	51	30	92	1120	512	837	701	129	29	37	99	80
MIN	3.6	4.2	6.1	12	8.0	24	17	15	4.0	3.1	5.0	3.4
CFSM	.34	.35	.68	6.97	2.47	3.80	3.35	1.43	.44	.31	.73	.45
IN.	.39	.39	.79	8.04	2.58	4.38	3.74	1.65	.49	.36	.85	.51

CAL YR 1978 TOTAL 15269.9 MEAN 41.8 MAX 953 MIN 2.2 CFSM 1.67 IN 22.63
WTR YR 1979 TOTAL 16301.5 MEAN 44.7 MAX 1120 MIN 3.1 CFSM 1.78 IN 24.16

CONNECTICUT RIVER BASIN

01191510 PARK RIVER AT HARTFORD, CT

LOCATION.--Lat 41°45'50", long 72°41'13", Hartford County, Hydrologic Unit 01080205, at bridge on Broad Street, at Hartford, 1 mi (2 km) upstream from Connecticut River and 1 mi (2 km) downstream from confluence of North Branch Park River and South Branch Park River.

DRAINAGE AREA.--73.0 mi² (189.1 km²).

PERIOD OF RECORD.--Water years 1974 to August 1979 (temporarily suspended).

REMARKS.--Date collection at this site has been temporarily suspended, due to construction activities. Sampling will begin again in the near future.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
25...	0900	32	460	7.7	10.5	9.0	30	10	11.6	100	5200	870
NOV												
14...	1340	33	460	7.7	17.5	11.0	30	6.0	12.8	115	18000	3900
DEC												
20...	1300	24	540	6.9	1.5	2.0	15	7.0	14.0	101	4200	340
JAN												
17...	0950	76	480	6.2	-3.5	.0	10	7.0	14.2	97	4200	800
FEB												
05...	1340	99	135	6.9	-5.0	.5	10	10	14.1	98	440	100
MAR												
05...	1345	164	350	6.8	13.5	5.0	30	9.0	12.7	99	1500	800
APR												
09...	1120	439	530	6.4	3.0	6.5	10	7.0	11.7	95	75000	10000
MAY												
16...	1110	80	325	7.0	25.0	19.0	20	10	8.8	95	3200	470
JUN												
18...	1230	37	400	7.4	23.0	24.0	5	5.0	7.2	84	160000	K32000
JUL												
24...	1535	24	240	7.4	38.0	25.0	5	40	10.4	123	1800	1600
AUG												
21...	1350	77	322	8.0	26.0	23.0	20	4.0	11.2	128	K1800	900

DATE	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
25...	400	--	--	--	--	--	--	--	35	--	258	.35
NOV												
14...	5500	--	--	--	--	--	--	--	32	--	258	.35
DEC												
20...	160	200	81	54	16	120	--	68	57	12	339	.46
JAN												
17...	580	--	--	--	--	--	--	--	55	--	231	.31
FEB												
05...	140	--	--	--	--	--	--	--	40	--	241	.33
MAR												
05...	700	98	42	27	7.5	56	--	28	39	9.0	195	.27
APR												
09...	10000	--	--	--	--	--	--	--	89	--	292	.40
MAY												
16...	330	130	44	36	10	87	--	39	31	8.4	218	.30
JUN												
18...	2500	--	--	--	--	--	--	--	36	--	277	.38
JUL												
24...	K50	--	--	--	--	--	--	--	31	--	246	.33
AUG												
21...	K65	130	37	37	8.6	91	1.8	40	34	7.0	230	.31

< 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

175

01191510 PARK RIVER AT HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 25...	22.8	241	.32	.05	--	.17	.22	.54	2.4	.09
NOV 14...	23.1	277	.31	.00	--	.46	.46	.77	3.4	.11
DEC 20...	22.1	351	1.3	.11	--	.34	.45	1.8	7.7	.03
JAN 17...	47.8	269	.97	.08	--	.35	.43	1.4	6.2	.09
FEB 05...	64.9	266	1.2	.12	--	.38	.50	1.7	7.5	.07
MAR 05...	86.3	209	.77	.10	--	.43	.53	1.3	5.8	.08
APR 09...	346	292	.88	.07	--	.52	.59	1.5	6.5	.07
MAY 16...	47.2	288	.65	.08	.10	.41	.49	1.1	5.0	.05
JUN 18...	28.0	313	.66	.14	.17	.68	.82	1.5	6.6	.14
JUL 24...	16.5	336	.45	.06	.07	.86	.92	1.4	6.1	.32
AUG 21...	48.0	265	.60	.02	.02	.46	.48	1.1	4.8	.08

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 25...	--	31	--	--	20	4.7	--	--	--
NOV 14...	--	79	--	--	30	7.8	--	--	--
DEC 20...	--	0	50	200	30	4.7	.00	.000	.000
JAN 17...	--	7	--	--	10	5.1	--	--	--
FEB 05...	--	3	--	--	10	7.6	--	--	--
MAR 05...	--	7	100	4	0	5.6	.00	2.41	.000
APR 09...	--	10	--	--	30	7.9	--	--	--
MAY 16...	.15	10	90	80	20	5.1	.00	4.09	.000
JUN 18...	.43	11	--	--	10	9.7	--	--	--
JUL 24...	.98	9	--	--	0	7.1	--	--	--
AUG 21...	.25	20	80	50	20	6.6	.00	4.25	.000

CONNECTICUT RIVER BASIN

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122 ft³/s (3.46 m³/s) Jan. 25, 1979, gage height, 3.66 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, 122 ft³/s (3.46 m³/s) Jan. 25, gage height, 3.66 ft (1.116 m); minimum, 0.20 ft³/s (0.006 m³/s) Aug. 3, 4, gage height 1.95 ft (0.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.65	1.1	3.0	9.5	5.5	3.2	6.0	2.4	1.3	.66	.90
2	.66	.60	.78	4.7	8.0	5.0	3.6	5.4	2.2	1.1	1.7	.73
3	.73	.60	.70	3.4	6.5	4.2	5.1	5.1	2.0	.98	.98	.90
4	.73	.60	3.0	1.8	5.5	4.2	4.2	6.0	2.2	.98	.60	.81
5	.62	.60	2.1	.86	5.0	4.2	4.8	4.8	2.9	.98	.60	.66
6	1.7	.60	.95	.70	4.0	19	3.9	3.9	3.6	.90	.60	2.2
7	.86	.62	.70	1.3	3.5	22	2.9	3.6	2.7	.90	.54	1.4
8	.95	.62	1.5	8.0	3.2	12	2.7	3.2	2.2	.81	.98	1.1
9	.70	.70	5.5	3.0	3.0	9.8	4.8	2.9	2.0	.81	.66	.90
10	.78	.70	2.4	2.3	2.8	11	7.1	2.7	1.9	.90	.81	.81
11	.70	.70	1.5	1.5	2.7	19	5.1	2.4	1.7	.90	1.5	.73
12	.63	.65	1.1	1.3	2.7	12	4.2	2.4	1.6	.81	4.2	.73
13	.63	.60	1.2	2.8	2.6	9.8	3.6	3.2	1.4	.81	3.2	.81
14	1.2	.60	1.0	5.5	2.5	9.4	4.5	4.8	1.4	.81	1.7	.90
15	.63	.62	.90	2.6	2.5	8.7	4.8	4.8	1.3	.81	1.5	.81
16	.63	.65	.80	1.8	2.4	6.7	5.4	3.6	1.3	.81	1.1	.73
17	.57	1.8	.70	1.6	2.4	6.7	4.8	2.7	1.3	.81	.90	.73
18	.63	2.4	.63	1.4	2.4	6.7	3.9	2.7	2.4	.90	1.1	.81
19	.86	.95	.56	2.5	2.4	6.4	3.4	2.5	1.9	.81	1.1	.66
20	1.1	.63	.40	15	2.4	5.7	3.2	2.4	1.3	.90	.90	.73
21	.95	.60	1.6	35	3.0	5.1	2.9	2.2	1.2	.60	.73	1.3
22	.95	.60	1.3	5.0	7.0	5.1	2.7	1.9	1.2	.73	.66	3.6
23	1.2	.70	.86	5.3	5.0	4.8	2.7	3.6	1.2	.73	.66	1.6
24	1.5	.95	.50	8.6	12	4.8	2.5	7.6	1.1	.73	.73	1.2
25	1.0	.70	2.1	62	9.0	5.7	2.5	12	1.1	.60	1.2	.98
26	.95	.56	.78	20	7.0	4.5	2.5	6.4	1.1	1.6	.90	.90
27	2.6	.86	.63	16	5.5	3.9	17	4.5	1.1	1.5	1.7	.81
28	1.0	.78	.50	13	6.0	3.6	12	3.9	1.1	.81	1.6	.90
29	.95	1.1	.40	11	---	3.9	8.0	3.9	1.1	.73	1.3	1.3
30	.80	4.0	.35	9.4	---	3.6	6.4	3.4	1.3	.73	1.3	1.1
31	.70	---	.35	4.4	---	3.4	---	2.7	---	.73	1.2	---
TOTAL	29.11	26.74	36.89	260.26	130.5	236.4	144.4	127.2	51.2	27.52	37.31	31.74
MEAN	.94	.89	1.19	8.40	4.66	7.63	4.81	4.10	1.71	.89	1.20	1.06
MAX	2.6	4.0	5.5	62	12	22	17	12	3.6	1.6	4.2	3.6
MIN	.57	.56	.35	.70	2.4	3.4	2.5	1.9	1.1	.60	.54	.66
CAL YP 1978	TOTAL	1055.90	MEAN	2.89	MAX	37	MIN	.13				
WTR YR 1979	TOTAL	1139.27	MEAN	3.12	MAX	62	MIN	.35				

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, 497 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, 497 micromhos Jan. 21; minimum, 50 micromhos Jan. 25.

WATER TEMPERATURES: Maximum, 26.0°C July 27, Aug. 2, minimum, 0.0°C at times during December.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT 24...	1215	1.0	255	6.3	6.5	10.0	20	1.0	11.6	103	570	<1
NOV 15...	1200	1.0	280	7.2	11.0	9.0	20	1.0	12.2	105	1500	K6
DEC 14...	1000	.86	185	6.8	-2.0	2.0	25	1.0	13.9	100	370	K3
JAN 16...	1410	2.0	180	6.8	1.0	1.0	5	1.0	14.2	100	18	K9
FEB 05...	1215	5.2	150	6.5	-4.0	1.5	20	2.0	14.0	100	--	K4
MAR 05...	1530	4.0	133	6.7	15.0	5.0	10	1.0	12.8	100	K12	K10
APR 09...	1515	4.5	146	7.0	1.5	5.0	5	2.0	12.3	96	880	42
MAY 16...	1445	18	138	6.4	23.0	18.5	10	1.0	9.0	102	360	K17
JUN 19...	1200	1.9	157	6.7	23.5	19.0	20	6.0	8.6	92	28000	1400
JUL 24...	1230	.81	170	7.6	34.0	22.0	5	6.0	8.2	93	260	K17
AUG 20...	1330	.90	172	7.3	32.0	18.0	10	1.0	9.5	100	290	39
SEP 25...	1530	.81	162	7.0	18.0	15.0	10	2.0	9.6	93	470	66

DATE	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- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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 24...	K9	--	--	--	--	--	--	--	25	--	130	.18
NOV 15...	K3	--	--	--	--	--	--	--	29	--	125	.17
DEC 19...	K14	52	31	16	3.0	21	--	14	29	13	116	.16
JAN 16...	19	--	--	--	--	--	--	--	25	--	100	.14
FEB 05...	K2	--	--	--	--	--	--	--	23	--	93	.13
MAR 05...	K7	32	19	9.5	2.0	13	--	11	23	9.5	86	.12
APR 09...	K12	--	--	--	--	--	--	--	24	--	99	.13
MAY 16...	42	37	20	11	2.4	17	--	12	25	11	102	.14
JUN 19...	2400	--	--	--	--	--	--	--	13	--	60	.08
JUL 24...	1700	--	--	--	--	--	--	--	32	--	141	.19
AUG 20...	48	49	20	16	2.2	29	2.8	13	27	11	127	.17
SEP 25...	93	--	--	--	--	--	--	--	24	--	130	.18

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 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	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)
OCT 24...	.37	132	90	--	--	.45	.00	--	.08	.08
NOV 15...	.35	--	138	--	--	.50	.00	--	.13	.13
DEC 19...	.27	--	123	--	--	.53	.01	--	.00	.00
JAN 16...	.56	--	111	--	--	.43	.00	--	.00	.00
FEB 05...	1.31	--	95	--	--	.42	.02	--	.19	.21
MAR 05...	.94	--	94	--	--	.45	.02	--	.12	.14
APR 09...	1.20	--	109	--	--	.54	.01	--	.18	.19
MAY 16...	4.96	--	110	--	--	.42	.04	.05	.12	.16
JUN 19...	.31	--	82	--	--	.18	.04	.05	.23	.27
JUL 24...	.31	--	153	--	--	.64	.06	.07	.18	.24
AUG 20...	.31	--	144	--	--	.69	.02	.02	.22	.24
SEP 25...	.28	--	124	.48	.00	.48	.02	.02	.32	.34

DATE	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, ORTHO, TOTAL (MG/L AS P)	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)
OCT 24...	.53	2.3	.01	--	.00	1	--	--	10	1.7
NOV 15...	.63	2.8	.00	--	.00	0	--	--	10	3.5
DEC 19...	.53	2.3	.00	--	.00	0	180	30	0	2.7
JAN 16...	.43	1.9	.01	--	.00	4	--	--	0	2.1
FEB 05...	.63	2.8	.01	--	.01	3	--	--	10	2.4
MAR 05...	.59	2.6	.01	--	.00	2	100	80	0	5.2
APR 09...	.73	3.2	.01	--	--	4	--	--	0	1.3
MAY 16...	.58	2.6	.02	.06	.00	10	150	50	0	5.2
JUN 19...	.45	2.0	.02	.06	.01	3	--	--	20	15
JUL 24...	.88	3.9	.02	.06	.00	3	--	--	10	4.6
AUG 20...	.93	4.1	.02	.06	.01	3	140	20	8	3.3
SEP 25...	.82	3.6	.02	.06	.00	2	--	--	0	4.0

CONNECTICUT RIVER BASIN

179

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 24...	--	120	1.0	2.58	.000
NOV 15...	--	1000	.8	2.49	.000
DEC 19...	.00	150	1.9	.000	.000
JAN 16...	--	62	1.7	.000	.000
FEB 05...	--	560	.9	.000	.000
MAR 05...	.00	260	1.1	.000	.000
APR 09...	--	120	.7	.000	.000
MAY 15...	.00	370	1.8	.000	.000
JUN 19...	--	460	2.2	4.02	.000
JUL 24...	--	930	.6	1.49	.000
AUG 20...	.00	950	.5	.000	.000
SEP 25...	--	700	3.6	.000	.000

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 24,78 1215	NOV 15,78 1200	DEC 14,78 1000	JAN 16,79 1410	FEB 5,79 1215	MAR 5,79 1530		
TOTAL CELLS/ML	120	1000	150	62	560	260		
DIVERSITY: DIVISION	1.0	1.9	1.1	0.3	1.8	1.3		
..CLASS	1.0	2.1	1.1	0.3	1.8	1.3		
...ORDER	1.0	2.1	1.7	0.9	1.8	1.4		
....FAMILY	1.4	2.7	2.5	2.0	2.0	2.1		
.....GENUS	1.4	2.7	2.5	2.0	2.0	0.0		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....MICRACETINIACEAE								
.....MICRACETINIUM	--	-	--	-	--	-	--	-
....NOCTACEAE								
.....ANKISTRODESMUS	--	-	--	-	--	-	--	-
.....DICTYOSPHAERIUM	--	-	350#	34	--	-	--	-
....SCENEDESMACEAE								
.....ACTINASTRUM	58#	50	--	-	--	-	--	-
.....SCENEDESMUS	--	-	--	-	--	-	--	-
.....TETRASTRUM	--	-	--	-	--	-	--	-
....VOLVOCALES								
....CHLAMYDOMONADACEAE	--	-	--	-	--	-	29	11
....CHLAMYDOMONAS	--	-	--	-	20	4	--	-
....7YGNEMATALES			28#	18				
....DESMIDIACEAE								
.....CLOSTERIUM	--	-	--	-	--	-	--	-
.....COSMARIUM	--	-	--	-	--	-	--	-
.....STAIROSTRUM	--	-	--	-	--	-	15	6
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCAEAE								
.....CYCLOTFLLA	--	-	--	-	--	-	--	-
....MELOSIIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
...PENNIALES								
....ACHNANTHACEAE								
....ACHNANTHES	--	-	160	15	8	13	--	-
....CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....EUNOTIACEAE								
....EUNOTIA	--	-	44	4	--	-	--	-
....FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	15	3
....GOMPHONEMACEAE								
....GOMPHONEMA	--	-	22	2	28#	18	--	-
....NAVICULACEAE					5	9	--	-
....NAVICULA	--	-	44	4	32#	52	71	13
....PINNULARIA	--	-	22	2	--	-	--	-
....NITZSCHACEAE								
....NITZSCHIA	43#	34	22	2	3	4	5	1
....TABELLARIACEAE								
....TABELLARIA	14	13	--	-	--	-	--	-
..CHRYSOPHYCEAE								
...CHRYSDOMONADALES								
....CHROMULINACEAE								
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-
....OCHROMONADACEAE								
.....DINORHYON	--	-	44	4	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
.....CHROMONAS	--	-	--	-	--	-	25	4
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	--	-	--	-	--	-	5	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....ANACYSTIS	--	-	--	-	--	-	330#	58
....HORMOGONALES								
....OSCILLATORACEAE								
.....OSCILLATORIA	--	-	180#	17	--	-	--	-
....SPIRULINA	--	-	--	-	14	9	--	-

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

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

CONNECTICUT RIVER BASIN

181

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	OCT 24,78 1215		NOV 15,78 1200		DEC 19,78 1000		JAN 16,79 1410		FEB 5,79 1215		MAR 5,79 1530	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE	--	-	--	-	--	-	--	-	--	-	44#	17
.....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
.....TRACHELOMONAS	--	-	160	15	--	-	--	-	81	14	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PEPIDIINIALES												
....GLENODINIACEAE												
.....GLENODINIUM	--	-	--	-	--	-	--	-	5	1	--	-

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

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

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	APR 9,79 1515	MAY 16,79 1445	JUN 19,79 1200	JUL 24,79 1230	AUG 20,79 1330	SEP 25,79 1530		
TOTAL CELLS/ML	120	370	460	930	950	700		
DIVERSITY: DIVISION	0.5	1.3	1.3	1.3	1.5	0.0		
..CLASS	0.5	1.3	1.3	1.3	1.5	0.1		
...ORDER	0.5	1.5	1.9	1.6	2.0	0.4		
...FAMILY	1.1	1.7	2.5	1.6	2.0	0.4		
....GENUS	1.1	0.0	3.0	1.8	2.2	0.4		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACITINIAE								
...MICRACITINIUM	--	-	29	8	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	--	-	13	3	--	-
...DICTYOSPHAERIUM	--	-	--	-	90#	19	--	-
...SCENEDESMACEAE								
...ACTINASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMUS	--	-	--	-	77#	17	130	14
...TETRASTRUM	--	-	--	-	52	11	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	43	12	--	-	--	-
...CHLAMYDOMONAS	--	-	--	-	26	6	--	-
...ZYGNEMATALES							77	8
...DESMIDIACEAE								
...CLOSTERIUM	14	13	--	-	--	-	--	-
...COSMARIUM	--	-	--	-	--	-	13	1
...STAUSTRUM	--	-	--	-	--	-	--	-
CHRYSPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEAE								
...CYCLOTELLA	--	-	--	-	100#	22	39	4
...MELOSIRA	--	-	--	-	--	-	51	5
...STEPHANODISCUS	--	-	--	-	--	-	120	12
...PENNIALES	--	-	--	-	13	3	--	-
...ACHNANTHACEAE								
...ACHNANTHES	--	-	14	4	--	-	--	-
...CYPPELLACEAE								
...AMPHORA	--	-	--	-	--	-	--	-
...EUNOTIACEAE								
...EUNOTIA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	--	-	77	8	--	-
...FRAGILARIA	--	-	--	-	39	4	--	-
...GOMPHONEMACEAE								
...GOMPHONEMA	--	-	29	8	--	-	--	-
...NAVICULACEAE								
...NAVICULA	87#	75	14	4	--	-	--	-
...PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIAEAE								
...NITZSCHIA	14	13	--	-	52	11	--	-
...TABELLARIACEAE							13	1
...TABELLARIA	--	-	--	-	--	-	--	-
..CHRYSPHYCEAE								
...CHRYSOMONADALES								
...CHROMULINACEAE								
...CHRYSOCOCCUS	--	-	--	-	--	-	--	-
...OCHROMONADACEAE								
...DINORRYON	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROMONAS	--	-	--	-	13	3	--	-
...CRYPTOMONADACEAE	--	-	--	-	26	6	--	-
...CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...ANACYSTIS	--	-	--	-	26	3	13	1
...HORMOGONALES								
...OSCILLATORIAEAE								
...OSCILLATORIA	--	-	240#	65	--	-	540#	63
...SPIRULINA	--	-	--	-	--	-	510#	54

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

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	APR 9.79 1515		MAY 16.79 1445		JUN 19.79 1200		JUL 24.79 1230		AUG 20.79 1330		SEP 25.79 1530	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE	--	-	--	-	--	-	--	-	--	-	--	-
....EUGLENA	--	-	--	-	--	-	--	-	13	1	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
PHYCOPHYTA (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%

CONNECTICUT RIVER BASIN

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	165	125	159	193	189	191	192	184	188	166	139	156
2	180	160	171	197	188	193	190	181	185	137	94	122
3	181	170	176	197	193	195	200	177	181	93	82	86
4	175	164	171	199	193	196	221	159	180	113	91	102
5	182	168	177	201	195	198	175	161	168	117	109	112
6	177	125	138	203	199	200	161	154	157	129	118	122
7	125	114	118	210	201	205	159	154	156	171	126	141
8	120	116	117	218	209	213	159	143	154	183	80	104
9	123	120	122	223	219	221	144	109	119	99	81	89
10	134	120	125	227	221	224	121	109	114	113	99	105
11	142	125	134	229	222	225	149	121	135	122	113	117
12	146	138	147	224	218	221	163	149	157	132	123	127
13	158	138	146	222	213	219	173	163	168	241	130	158
14	159	132	146	215	207	211	179	168	173	251	154	174
15	160	142	150	211	197	208	163	176	179	182	152	165
16	161	157	158	212	205	209	176	170	173	152	146	148
17	163	154	157	211	183	203	178	171	173	150	146	148
18	158	152	156	193	176	187	176	157	169	156	152	153
19	162	144	155	196	188	192	174	153	161	157	154	155
20	165	151	157	197	191	194	170	151	162	162	156	159
21	168	160	162	200	186	193	192	174	182	497	159	233
22	169	163	165	187	178	182	200	183	195	213	179	190
23	181	165	173	239	178	197	204	197	200	189	170	175
24	182	174	180	207	171	181	203	194	197	186	110	163
25	187	178	183	178	171	173	212	173	197	70	50	59
26	186	166	179	180	172	177	173	149	157	105	65	75
27	174	157	165	180	172	176	155	148	151	81	72	75
28	176	166	168	191	169	176	157	149	153	77	69	73
29	174	169	172	203	173	183	168	156	161	78	74	76
30	180	172	175	187	168	176	173	165	167	75	70	73
31	193	178	186	---	---	---	169	164	166	79	71	75
MONTH	193	114	158	239	168	194	221	109	167	497	50	126
FEBRUARY			MARCH			APRIL			MAY			
1	77	72	75	117	107	111	154	149	151	147	135	142
2	77	70	73	107	103	105	149	137	145	148	135	142
3	79	72	75	105	99	102	139	127	133	148	130	138
4	80	74	77	104	100	102	127	124	125	146	134	138
5	80	77	78	108	103	106	126	121	123	142	129	134
6	86	78	82	107	87	98	126	119	123	145	140	142
7	93	86	89	91	83	87	129	122	125	185	136	155
8	98	91	93	99	91	95	132	123	127	184	150	168
9	99	94	96	112	95	103	151	118	127	189	157	175
10	101	97	99	110	103	106	117	109	112	210	180	195
11	103	99	101	106	98	101	122	105	111	207	197	203
12	107	100	104	105	95	100	126	111	117	207	188	198
13	109	103	106	---	---	---	123	114	118	185	163	172
14	116	108	112	---	---	---	119	107	113	166	147	157
15	116	113	115	---	---	---	105	99	103	151	142	147
16	114	111	113	---	---	---	104	99	102	158	150	153
17	116	109	112	---	---	---	107	99	103	163	145	153
18	123	111	117	---	---	---	114	102	107	180	157	168
19	128	120	124	---	---	---	115	103	109	171	151	162
20	159	128	139	---	---	---	129	105	115	161	149	155
21	307	165	201	---	---	---	138	116	125	177	161	168
22	419	312	366	154	139	148	138	127	133	195	176	184
23	299	205	230	153	142	147	162	131	144	195	146	182
24	207	111	156	159	147	152	157	146	151	137	110	118
25	117	98	103	154	149	152	155	143	150	128	73	98
26	166	103	133	153	151	152	151	136	142	121	99	111
27	132	121	125	151	146	148	137	91	106	129	120	122
28	132	117	122	150	142	146	120	97	107	134	127	130
29	---	---	---	155	148	150	128	112	121	141	129	134
30	---	---	---	147	144	146	143	123	133	147	142	145
31	---	---	---	152	144	147	---	---	---	151	150	154
MONTH	419	70	122	159	83	123	162	91	123	210	73	153

CONNECTICUT RIVER BASIN

185

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	179	151	164	144	133	139	216	198	206	179	159	169
2	176	164	170	147	137	141	221	188	207	178	168	173
3	181	173	177	156	132	142	242	188	205	184	164	177
4	175	167	170	149	135	141	254	189	221	191	178	185
5	173	152	164	140	131	135	267	222	247	193	183	188
6	154	139	143	140	126	133	227	199	214	205	148	184
7	149	132	138	149	122	132	239	218	225	166	136	155
8	158	144	150	144	122	134	223	190	201	151	137	145
9	171	152	161	161	137	147	196	184	191	157	141	150
10	179	164	172	156	139	146	208	189	194	166	148	159
11	185	169	179	151	131	139	210	165	191	176	159	168
12	183	170	177	141	126	134	178	71	127	179	165	170
13	180	171	175	154	125	140	75	61	68	183	171	176
14	186	172	176	171	142	154	100	72	84	187	172	179
15	192	174	182	167	151	159	142	107	120	192	180	183
16	200	187	193	169	146	159	170	134	150	192	178	185
17	203	190	196	171	150	158	159	136	148	192	179	188
18	231	161	190	162	136	145	168	146	155	196	183	191
19	176	156	164	159	123	141	185	169	177	200	187	193
20	169	158	164	161	143	158	190	172	178	195	182	188
21	164	157	161	211	179	197	229	188	211	190	144	176
22	164	150	156	190	170	181	239	229	234	173	107	144
23	174	155	163	189	163	175	233	213	223	153	129	140
24	172	161	167	181	156	168	220	201	211	160	147	154
25	162	155	160	223	184	198	261	210	233	158	145	152
26	164	149	156	250	190	226	234	201	219	168	150	155
27	162	153	157	192	158	169	234	176	203	174	161	167
28	167	150	156	211	163	188	226	151	168	181	174	176
29	166	155	160	201	181	191	155	143	149	199	176	190
30	176	142	155	204	179	189	194	153	163	197	185	191
31	---	---	---	201	176	187	189	157	166	---	---	---
MONTH	231	132	167	250	122	160	267	61	184	205	107	172

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

01192370 PORTER BROOK NEAR MANCHESTER, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

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

LOCATION.--Lat 41°46'22", long. 72°33'26", Hartford County, Hydrologic Unit 0108025, on right bank, 100 ft (30 m) upstream from bridge on Olcott Street, and 0.7 mi (1.1 km) upstream from mouth.

PERIOD OF RECORD.--October 1977 to current year.

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, 1,380 ft³/s (39.1 m³/s) Jan. 25, gage height 6.97 ft (2.124 m); minimum, 1.6 ft³/s (0.045 m³/s) July 26, gage height, 1.74 ft (0.530 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	2.6	3.6	27	27	25	14	27	15	6.7	3.0	3.5
2	2.8	2.6	3.1	44	25	21	22	23	14	3.8	6.5	3.3
3	2.4	2.6	2.8	27	15	19	25	23	13	3.5	4.5	5.7
4	2.4	2.6	15	14	13	19	22	27	13	3.3	3.0	9.3
5	2.4	2.4	8.5	9.0	11	21	24	21	18	3.3	3.0	4.5
6	31	2.4	3.9	8.0	10	142	18	19	17	3.0	3.0	21
7	3.9	2.4	3.3	31	9.0	97	14	18	12	3.0	3.0	7.1
8	3.1	2.4	8.0	127	8.5	51	13	15	12	2.6	4.5	4.9
9	2.6	2.4	40	26	8.0	41	33	15	11	2.6	3.5	4.2
10	2.8	2.4	13	17	7.0	50	35	13	8.8	2.6	4.0	3.8
11	2.6	2.4	6.4	15	6.5	86	23	12	7.1	3.0	5.0	3.5
12	2.6	2.2	4.6	17	6.5	44	19	12	6.2	2.6	15	3.3
13	2.6	2.2	5.4	41	6.0	38	17	17	4.9	2.2	10	3.0
14	9.5	2.2	4.6	74	5.5	39	27	29	4.9	2.2	8.0	4.9
15	3.6	2.4	3.9	20	5.5	33	23	26	5.3	1.9	6.5	5.3
16	2.8	2.4	3.6	15	5.0	30	27	19	5.7	2.2	5.0	3.3
17	2.8	5.0	5.0	13	5.0	29	21	15	5.7	2.6	4.5	3.5
18	2.8	8.5	3.9	16	5.0	27	19	15	26	3.3	5.0	3.3
19	3.6	2.6	3.3	34	5.0	26	18	14	16	2.2	4.8	3.0
20	3.6	2.2	3.1	16	5.0	25	15	13	9.3	1.6	4.8	3.0
21	2.8	2.2	18	243	10	21	14	13	7.1	1.6	3.8	11
22	2.6	2.2	4.6	71	15	21	14	11	6.2	1.6	3.3	49
23	2.6	2.6	3.9	37	8.8	19	14	25	5.3	1.6	3.3	9.3
24	2.8	4.2	3.3	79	66	19	13	38	4.5	1.9	4.2	6.7
25	2.6	2.6	19	311	51	24	12	76	4.2	1.6	8.8	5.3
26	3.9	2.4	7.5	79	40	19	13	32	3.8	9.8	4.5	4.9
27	13	2.2	4.6	56	34	17	102	23	3.5	13	12	4.2
28	3.3	2.8	5.0	47	37	15	49	21	3.5	3.8	6.7	4.2
29	3.1	3.3	3.6	40	---	17	38	21	3.5	3.0	6.2	11
30	2.8	14	3.3	34	---	15	31	21	7.9	3.3	7.9	4.9
31	2.6	---	4.6	32	---	15	---	18	---	3.3	6.2	---
TOTAL	139.1	95.4	222.4	1620.0	450.3	1065	729	672	274.4	102.7	173.5	213.9
MEAN	4.49	3.18	7.17	52.3	16.1	34.4	23.3	21.7	9.15	3.31	5.60	7.13
MAX	31	14	40	311	66	142	102	76	26	13	15	49
MIN	2.4	2.2	2.8	8.0	5.0	15	12	11	3.5	1.6	3.0	3.0
CAL YR 1978	TOTAL	4833.0	MEAN	13.2	MAX	354	MIN	2.2				
WTR YR 1979	TOTAL	5757.7	MEAN	15.8	MAX	311	MIN	1.6				

CONNECTICUT RIVER BASIN

01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CONN.

LOCATION.--Lat 41°46'59", long 72°35'16", Hartford County, Hydrologic Unit 0108025, 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).--48 years (1919-21, 1928-71, 1977-79) 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, 3,260 ft³/s (92.3 m³/s) Jan. 25, gage height, 11.93 ft (3.636 m); minimum daily, 42 ft³/s (1.19 m³/s) Nov. 13; minimum, 38 ft³/s (1.08 m³/s) Nov. 13, gage height, 1.47 ft (0.448 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	48	70	108	268	273	121	299	127	84	54	62
2	59	46	60	181	239	232	127	259	115	72	53	54
3	73	47	53	215	227	198	165	244	104	68	60	59
4	98	47	56	161	219	174	151	266	103	63	89	61
5	58	46	83	138	213	178	165	206	110	61	54	57
6	117	44	72	111	201	625	140	146	126	61	53	122
7	87	46	61	107	194	1100	120	135	103	60	52	104
8	63	46	61	534	197	560	113	124	95	59	71	66
9	52	46	151	390	167	389	165	124	92	59	54	55
10	52	45	129	192	154	372	256	118	85	58	60	54
11	50	44	105	127	144	721	180	111	83	58	80	52
12	49	43	82	106	152	486	146	104	80	54	228	72
13	49	42	69	127	133	360	131	119	77	53	284	138
14	59	43	65	487	119	346	152	139	73	53	114	107
15	61	43	60	228	110	329	164	158	71	53	76	83
16	53	44	57	141	91	291	172	119	73	54	66	58
17	51	45	57	116	89	281	166	104	74	55	56	52
18	50	63	57	110	83	269	145	103	115	56	66	51
19	50	56	54	98	81	259	132	100	130	54	70	50
20	55	49	53	96	82	253	124	98	87	55	60	47
21	53	47	85	1100	96	244	121	98	80	52	55	64
22	48	48	73	680	148	214	117	92	77	51	52	201
23	46	46	62	374	115	158	116	130	76	52	50	125
24	49	47	54	302	416	148	113	250	71	52	52	99
25	50	48	87	2140	574	160	111	379	70	51	71	75
26	52	46	85	1010	426	147	114	260	69	61	112	64
27	72	45	71	574	326	135	466	185	68	102	123	57
28	64	47	61	452	290	130	548	167	66	59	164	55
29	52	49	55	384	---	130	446	164	65	56	81	86
30	48	69	53	334	---	131	354	154	71	56	81	79
31	48	---	52	292	---	127	---	143	---	54	85	---
TOTAL	1833	1425	2193	11415	5554	9420	5541	5113	2636	1836	2626	2309
MEAN	59.1	47.5	70.7	368	198	304	185	165	87.9	59.2	84.7	77.0
MAX	117	69	151	2140	574	1100	548	379	130	102	284	201
MIN	48	42	52	96	81	127	111	92	65	51	50	47
CAL_YR 1978	TOTAL	45293	MEAN	124	MAX	1530	MIN	35				
WTR_YR 1979	TOTAL	51901	MEAN	142	MAX	2140	MIN	42				

CONNECTICUT RIVER BASIN

189

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 1978 TO SEPTEMBER 1979

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
19...	1235	380	6.9	17.0	13.0	50	8.0	9.5	90	32000	1200	68
NOV												
06...	1015	390	6.9	10.5	13.0	40	9.0	9.8	92	64000	--	460
DEC												
11...	1045	500	6.9	.0	3.5	35	7.0	12.7	95	460000	32000	8500
JAN												
12...	1130	285	7.1	<-5.0	1.5	10	4.0	12.4	89	120000	16000	5500
FEB												
16...	1415	275	6.8	<-5.0	1.0	15	2.0	12.6	89	610000	55000	7200
MAR												
16...	1025	195	6.7	-2.0	4.0	20	3.0	11.6	88	55000	5000	380
APR												
09...	1130	265	7.0	2.0	7.0	10	6.0	9.3	76	85000	3800	1300
MAY												
16...	1430	270	6.7	27.0	20.0	10	9.0	7.3	79	35000	2000	1900
JUN												
15...	1320	325	6.8	32.0	22.5	10	8.0	6.9	78	16000	100	48
JUL												
18...	1500	270	6.8	26.0	26.0	10	2.0	5.5	67	55000	200	140
AUG												
09...	0920	220	7.2	26.0	23.0	10	10	4.5	52	100000	660	500
SEP												
18...	1430	325	7.2	25.0	21.0	18	6.0	6.3	70	2000	92	K4

DATE	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)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT											
19...	--	--	--	--	--	--	46	--	223	.30	245
NOV											
06...	--	--	--	--	--	--	44	--	244	.33	253
DEC											
11...	65	29	20	3.6	36	29	58	8.8	203	.28	215
JAN											
12...	--	--	--	--	--	--	35	--	169	.23	190
FEB											
16...	--	--	--	--	--	--	31	--	170	.23	179
MAR											
16...	50	26	15	3.0	24	23	25	8.5	128	.17	139
APR											
09...	--	--	--	--	--	--	34	--	173	.24	187
MAY											
16...	69	28	21	3.9	41	30	36	9.8	168	.23	204
JUN											
15...	--	--	--	--	--	--	40	--	197	.27	230
JUL											
18...	--	--	--	--	--	--	37	--	185	.25	229
AUG											
09...	70	16	22	3.7	54	32	34	9.3	186	.25	240
SEP											
18...	--	--	--	--	--	--	36	--	214	.29	256

< 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

01192516 HOCKANUM RIVER AT EAST HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 19...	--	--	3.6	3.1	--	1.4	4.5	8.1	36	1.8
NOV 06...	--	--	2.2	4.7	--	18	23	25	110	2.5
DEC 11...	--	--	1.5	2.7	--	1.0	3.7	5.2	23	1.2
JAN 12...	--	--	1.6	3.0	--	.90	3.9	5.5	24	.80
FEB 15...	--	--	1.7	3.8	--	.60	4.4	6.1	27	.97
MAR 16...	--	--	1.1	1.0	--	.90	1.9	3.0	13	.38
APR 09...	--	--	1.8	2.0	--	1.0	3.0	4.8	21	.77
MAY 16...	--	--	1.6	2.3	2.8	1.1	3.4	5.0	22	.50
JUN 15...	--	--	1.9	4.2	5.1	1.4	5.6	7.5	33	1.1
JUL 18...	--	--	1.8	4.8	5.8	1.2	6.0	7.8	35	1.5
AUG 09...	--	--	1.6	3.2	3.9	.40	3.6	5.2	23	.92
SEP 18...	2.3	.30	2.6	4.7	5.7	.10	4.8	7.4	33	1.4

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 19...	--	11	--	--	40	8.7	.20	--	--
NOV 06...	--	8	--	--	10	9.9	--	--	--
DEC 11...	--	0	290	190	20	8.7	.10	3.44	.000
JAN 12...	--	14	--	--	70	8.2	--	--	--
FEB 16...	--	15	--	--	60	7.2	--	--	--
MAR 16...	--	8	170	70	30	5.4	.10	2.22	.000
APR 09...	--	6	--	--	20	8.6	--	--	--
MAY 16...	1.5	6	160	210	20	9.4	.20	6.60	.000
JUN 15...	3.4	6	--	--	40	11	--	--	--
JUL 18...	4.6	12	--	--	10	11	--	--	--
AUG 09...	2.8	7	110	210	30	16	.20	18.4	.000
SEP 18...	4.3	5	--	--	10	7.8	--	--	--

CONNECTICUT RIVER BASIN

191

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 Oct. 1 to Dec. 6, and Aug. 5 to Sept. 6, which are fair. Some regulation of low flow by Beseck Lake and industrial plants upstream.

AVERAGE DISCHARGE.--18 years, 63.8 ft³/s (1.807 m³/s), 24.97 in/yr (634 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)
Jan. 8	2200	824 23.3	4.21 1.283	Feb. 26	1000	704 19.9	3.91 1.192
22	0430	1,680 47.6	5.85 1.783	Mar. 7	0730	1,550 43.9	5.64 1.719
25	1330	*1,960 55.5	*6.27 1.911	Apr. 28	0100	632 17.9	3.73 1.137

Minimum daily discharge, 2.6 ft³/s (0.076 m³/s) July 30, 31, Aug. 2.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	32	70	112	171	200	46	181	82	13	2.9	7.5
2	37	31	60	230	150	143	46	140	67	14	2.6	6.0
3	33	30	50	365	120	116	62	112	56	14	3.1	20
4	30	30	60	336	100	104	69	107	53	13	3.4	30
5	33	30	110	250	95	102	70	101	51	12	3.4	10
6	75	30	90	130	85	590	63	89	54	9.9	3.5	27
7	72	30	83	150	80	1390	54	76	49	8.8	3.0	23
8	50	30	71	677	75	754	45	66	43	7.7	3.0	17
9	43	30	137	770	75	394	56	60	36	6.8	3.0	15
10	40	30	202	550	70	285	95	55	31	6.0	3.2	12
11	37	30	150	300	70	328	96	49	28	6.0	10	9.9
12	35	28	120	150	68	281	75	43	25	6.0	20	7.7
13	35	26	100	150	66	216	60	49	22	5.6	25	6.0
14	40	25	90	285	65	183	63	69	21	5.6	15	6.8
15	38	27	85	250	65	159	80	84	18	5.6	10	11
16	35	27	80	200	62	129	95	86	17	5.6	8.0	7.7
17	34	30	75	150	60	111	93	69	22	7.7	13	6.8
18	32	80	75	130	60	98	82	54	56	11	5.0	6.3
19	32	60	70	120	60	87	69	49	75	6.0	5.0	6.0
20	35	45	55	110	60	80	60	48	84	4.8	10	6.0
21	34	40	70	719	60	75	54	45	71	4.4	10	10
22	32	36	75	1400	111	70	50	41	51	3.7	9.0	40
23	30	35	71	640	78	66	48	50	34	4.0	8.0	35
24	30	50	61	469	250	62	45	133	25	3.1	8.0	30
25	30	45	93	1780	341	63	42	235	19	2.9	10	12
26	32	40	119	1160	530	61	46	264	16	3.1	9.0	11
27	50	35	100	576	472	55	405	218	14	3.4	8.0	9.5
28	45	35	90	374	285	49	562	169	12	3.4	8.0	9.0
29	35	35	75	290	---	48	368	135	11	3.1	8.0	9.0
30	34	70	70	239	---	48	250	116	11	2.6	9.0	9.0
31	33	---	65	198	---	48	---	98	---	2.6	8.0	---
TOTAL	1186	1102	2742	13262	3784	6400	3249	3091	1154	205.4	247.1	416.2
MEAN	38.3	36.7	88.5	428	135	206	108	99.7	38.5	6.63	7.97	13.9
MAX	75	80	202	1780	530	1390	562	264	84	14	25	40
MIN	30	25	50	110	60	48	42	41	11	2.6	2.6	6.0
CFSM	1.10	1.06	2.55	12.3	3.89	5.94	3.11	2.87	1.11	.19	.23	.40
IN.	1.27	1.18	2.94	14.22	4.06	6.86	3.48	3.31	1.24	.22	.26	.45

CAL YR 1978	TOTAL	25480.1	MEAN	69.8	MAX	824	MIN	4.5	CFSM	2.01	IN	27.32
WTR YR 1979	TOTAL	36838.7	MEAN	101	MAX	1780	MIN	2.6	CFSM	2.91	IN	39.49

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 Mattabeset 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 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CUBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SOLVED SATUR- ATION	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 18...	1310	1.0	167	7.3	12.5	11.0	20	2.0	10.7	96	12000	420
NOV 16...	0915	1.0	155	6.7	7.5	9.0	50	3.0	10.4	90	50000	1500
DEC 15...	1305	1.0	147	7.4	5.0	1.0	10	2.0	13.3	94	80000	11000
JAN 12...	1400	1.0	114	7.1	<-5.0	.5	5	3.0	14.9	103	16000	2500
FEB 16...	1240	1.0	135	6.8	<-5.0	.0	10	2.0	14.3	98	4200	600
MAR 12...	1340	1.0	78	6.8	3.0	2.0	20	2.0	14.5	104	6600	2500
APR 15...	1340	1.0	96	6.7	7.5	5.5	10	10	10.8	91	6400	1000
MAY 15...	1520	1.0	110	6.8	25.0	19.0	10	2.0	8.7	94	3800	280
JUN 15...	1230	1.0	115	7.1	31.0	21.0	5	4.0	9.5	106	10000	2000
JUL 20...	1340	1.0	115	6.6	29.0	27.0	5	2.0	8.9	110	11000	2000
AUG 09...	1420	1.0	138	8.5	29.0	26.5	9	5.0	9.7	118	7000	320
SEP 18...	1320	1.0	125	7.6	25.5	21.5	12	2.0	9.7	109	24000	500

DATE	STREP- TOCUCCI 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- 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 18...	K6	--	--	--	--	--	--	14	--	92	.13
NOV 16...	300	--	--	--	--	--	--	13	--	86	.12
DEC 15...	1700	39	10	12	2.2	29	14	14	6.1	78	.11
JAN 12...	900	--	--	--	--	--	--	11	--	72	.10
FEB 16...	210	--	--	--	--	--	--	15	--	85	.12
MAR 12...	1000	22	5	6.9	1.1	17	8.2	7.5	5.1	55	.07
APR 16...	130	--	--	--	--	--	--	9.1	--	59	.08
MAY 16...	K11	37	14	12	1.8	23	11	11	5.7	72	.10
JUN 15...	460	--	--	--	--	--	--	10	--	71	.10
JUL 20...	20	--	--	--	--	--	--	14	--	74	.10
AUG 09...	40	42	14	13	2.2	28	13	15	3.0	98	.13
SEP 18...	27	--	--	--	--	--	--	12	--	80	.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)

CONNECTICUT RIVER BASIN

193

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, 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										
18...	98	--	--	.34	.11	--	.41	.52	.86	3.8
NOV										
16...	95	--	--	.46	.28	--	.41	.69	1.2	5.1
DEC										
15...	87	--	--	.44	.28	--	.35	.63	1.1	5.0
JAN										
12...	77	--	--	.47	.19	--	.33	.52	.99	4.4
FEB										
16...	90	--	--	.61	.31	--	.19	.50	1.1	4.9
MAR										
12...	96	--	--	.36	.10	--	.27	.37	.73	3.2
APR										
16...	71	--	--	.32	.06	--	.28	.34	.66	2.9
MAY										
16...	86	--	--	.38	.13	.16	.27	.40	.78	3.5
JUN										
15...	103	--	--	.31	.16	.19	.22	.38	.69	3.1
JUL										
20...	96	--	--	.36	.08	.10	.51	.59	.95	4.2
AUG										
09...	99	--	--	.35	.06	.07	.02	.68	1.0	4.6
SEP										
18...	101	.37	.01	.38	.09	.11	.53	.62	1.0	4.4

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DISE- SOLVED (UG/L AS CU)	IRON, DISE- SOLVED (UG/L AS FE)	MANGA- NESE, DISE- SOLVED (UG/L AS MN)	ZINC, DISE- 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										
18...	.11	--	4	--	--	10	3.7	.00	--	--
NOV										
16...	.14	--	3	--	--	0	4.6	--	--	--
DEC										
15...	.12	--	6	110	10	0	4.6	.10	.000	.000
JAN										
12...	.07	--	4	--	--	10	5.5	--	--	--
FEB										
16...	.09	--	5	--	--	20	3.3	--	--	--
MAR										
12...	.08	--	5	150	30	10	5.9	.00	.000	.000
APR										
16...	.04	--	3	--	--	0	3.5	--	--	--
MAY										
16...	.08	.25	4	120	20	10	4.5	.00	7.75	.000
JUN										
15...	.09	.23	6	--	--	20	5.2	--	--	--
JUL										
20...	.11	.34	5	--	--	10	4.6	--	--	--
AUG										
09...	.15	.40	7	30	2	20	5.3	.10	30.1	.000
SEP										
18...	.14	.43	5	--	--	0	3.8	--	--	--

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, 102,000 ft³/s (2,890 m³/s) Mar. 9, gage height, 22.53 ft (6.867 m).

OCTOBER 1978 DISCHARGE AT STATION 1193000					NOVEMBER 1978 DISCHARGE AT STATION 1193000				
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET				VOLUME(S) IN MILLIONS OF CUBIC FEET				
1					-10 (0045)	536 (0945)	-125 (1345)	445 (2215)	-41
2					-58 (0200)	489 (1000)	-166 (1415)	631	
3					0 (0015)	-11 (0200)	540 (1100)	-128 (1515)	612
4					8 (0100)	-15 (0300)	537 (1145)	-151 (1600)	567
5					25 (0115)	-60 (0445)	436 (1215)	-401 (1730)	427
6					47 (0130)	-129 (0600)	377 (1315)	-234 (1830)	351
7					126 (0230)	-79 (0630)	491 (1500)	-123 (1915)	317
8					222 (0400)	-52 (0730)	525 (1615)	-69 (2000)	246
9					316 (0500)	-83 (0845)	516 (1745)	-85 (2130)	135
10					341 (0600)	-132 (1015)	415 (1815)	-133 (2230)	53
11					374 (0615)	-211 (1115)	441 (1900)	-157 (2330)	8
12					421 (0700)	-190 (1200)	405 (1945)	-162	
13					-8 (0030)	400 (0745)	-228 (1300)	436 (2045)	-108
14					-26 (0100)	480 (0900)	-118 (1315)	638	
15	-5 (0030)	493 (0815)	-186 (1315)	445 (2100)	573 (1000)	-133 (1345)	458 (2245)	-20	
16	-33 (0115)	450 (0900)	-201 (1345)	531 (2215)	-47 (0215)	437 (1015)	-159 (1445)	472 (2330)	-5
17	-42 (0145)	518 (1000)	-159 (1400)	638 (2345)	-74 (0300)	409 (1045)	-188 (1545)	494 (2400)	0
18	-8 (0130)	570 (1045)	-116 (1445)	615 (2400)	-54 (0330)	558 (1230)	-38 (1515)	545	
19	-40 (0245)	510 (1130)	-132 (1545)	524	570 (1315)	-74 (1630)	418		
20	3 (0030)	-63 (0345)	458 (1200)	-183 (1630)	44 (0215)	-26 (0500)	347 (1315)	-151 (1745)	346
21	25 (0100)	-80 (0445)	470 (1300)	-158 (1715)	80 (0230)	-46 (0600)	449 (1515)	-24 (1745)	336
22	63 (0200)	-90 (0545)	391 (1330)	-199 (1815)	133 (0330)	-43 (0645)	425 (1530)	-38 (1845)	294
23	100 (0245)	-121 (0700)	331 (1430)	-184 (1930)	1141				
24	172 (0400)	-114 (0815)	292 (1515)	-198 (2015)	230 (0445)	-113 (0900)	503 (1830)	-19 (2045)	147
25	255 (0500)	-35 (0800)	416 (1700)	-85 (2045)	319 (0545)	-63 (0915)	420 (1830)	-73 (2215)	46
26	315 (0545)	-88 (0930)	425 (1800)	-98 (2200)	267 (0545)	-143 (1045)	406 (1915)	-78 (2300)	21
27	348 (0700)	-45 (0945)	410 (1830)	-228 (2300)	323 (0645)	-170 (1130)	423 (1945)	-169	
28	402 (0630)	-467 (1200)	472 (1945)	-57 (2245)	-7 (0030)	451 (0915)	-6 (1100)	762	
29	540 (0800)	-54 (1100)	546 (2015)	-98 (2400)	504 (0900)	-99 (1245)	507 (2145)	-58	
30	452 (0800)	-180 (1245)	506 (2115)	-31 (2400)	-32 (0115)	446 (0915)	-166 (1330)	622 (2215)	-33
31	588 (0930)	-61 (1245)	584 (2200)	-31					

CONNECTICUT RIVER BASIN

195

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

DECEMBER 1978 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET							
1	-20 (0115)	474 (0915)	-284 (1430)	545 (2245)	-32			
2	-100 (0245)	459 (1015)	-233 (1515)	544 (2345)	-1			
3	-115 (0345)	383 (1045)	-289 (1615)	448 (2345)	0			
4	-214 (0500)	400 (1200)	-258 (1715)	514				
5	80 (0200)	-31 (0445)	530 (1400)	-94 (1730)	446			
6	132 (0300)	-44 (0600)	532 (1445)	-102 (1830)	366			
7	233 (0430)	-21 (0700)	503 (1545)	-93 (1945)	260			
8	256 (0430)	-98 (0830)	531 (1730)	-65 (2045)	180			
9	342 (0530)	-110 (0915)	618 (1900)	-2 (2015)	143			
10	1536							
11	547 (0815)	-29 (1045)	647					
12	514 (0800)	-115 (1200)	645 (2200)	0 (2215)	0 (2230)	0 (2245)	13	
13	581 (0900)	-71 (1230)	661					
14	598 (0930)	-134 (1330)	540 (2315)	-5				
15	-5 (0100)	495 (1015)	-97 (1400)	596 (2330)	-4			
16	-14 (0130)	507 (1030)	-156 (1445)	539 (2315)	-19			
17	-132 (0330)	432 (1115)	-222 (1530)	459				
18	2 (0015)	-127 (0445)	358 (1230)	-164 (1715)	316			
19	43 (0115)	-85 (0500)	321 (1215)	-223 (1730)	298			
20	4 (0015)	-201 (0530)	354 (1245)	-197 (1745)	424			
21	35 (0115)	-234 (0630)	556 (1530)	-9 (1700)	366			
22	130 (0245)	-108 (0645)	420 (1515)	-92 (1845)	297			
23	164 (0315)	-131 (0745)	477 (1630)	-65 (1945)	214			
24	199 (0400)	-207 (0900)	398 (1645)	-148 (2130)	125			
25	179 (0315)	-581 (1030)	1070					
26	324 (0615)	-133 (1030)	367 (1815)	-151 (2245)	44			
27	389 (0630)	-251 (1130)	540 (2000)	-82 (2315)	12			
28	470 (0815)	-188 (1315)	329 (1945)	-210				
29	-26 (0100)	357 (0745)	-344 (1330)	530 (2115)	-131			
30	-53 (0130)	503 (0900)	-289 (1400)	590 (2200)	-83			
31	-101 (0215)	501 (0945)	-311 (1500)	563 (2245)	-38			

MARCH 1979 DISCHARGE AT STATION 1193000

APRIL 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET		VOLUME(S) IN MILLIONS OF CUBIC FEET	
1			5328	
2			5308	
3			6027	
4			6654	
5	3188		6708	
6	5797		6342	
7	8139		5675	
8	8761		4640	
9	8260		3807	
10	7862		3896	
11	7664		3783	
12	7137		3639	
13	6255		3491	
14	5340		3215	
15	5132		3504	
16			3629	
17	4753		3840	
18	3984		3783	
19	3486		3908	
20	3227		4059	
21	3079		3906	
22	3241		3786	
23	3617		3588	
24	4514		3689	
25	5472		4044	
26	6832		4167	
27	8359		4764	
28	8643		5369	
29	7700		6467	
30	6452		6947	
31	5162			

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

1979 DISCHARGE AT STATION 1193000				JUNE	1979 DISCHARGE AT STATION 1193000			
VOLUME(S) IN MILLIONS OF CUBIC FEET				DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
6566				1	5262			
5143				2	4818			
3838				3	4047			
3901				4	3368			
3504				5	2742			
3312				6	2321			
3070				7	1973 (2000)	-64 (2230)	88	
2776				8	1987 (2030)	-78 (2315)	23	
2477				9	1008 (1000)	-14 (1145)	782 (2045)	-149
2330				10	-1 (0015)	929 (1000)	-86 (1245)	741 (2115) -147
2125				11	-39 (0115)	912 (1030)	-117 (1345)	756 (2200) -108
1962				12	-102 (0200)	793 (1115)	-155 (1430)	643 (2245) -50
1984				13	-140 (0245)	897 (1230)	-99 (1515)	778
1955				14	2 (0015)	-125 (0330)	878 (1315)	-111 (1615) 736
1949				15	59 (0115)	-104 (0415)	920 (1430)	-89 (1715) 644
1863				16	165 (0230)	-75 (0515)	768 (1445)	-149 (1815) 524
1759				17	247 (0330)	-111 (0630)	729 (1530)	-149 (1930) 401
1606				18	311 (0400)	-174 (0800)	601 (1600)	-253 (2045) 284
1476				19	427 (0500)	-163 (0900)	614 (1700)	-225 (2130) 215
976 (1730)	-58 (2100)	190		20	622 (0645)	-105 (0945)	647 (1800)	-191 (2215) 118
1077 (1845)	-20 (2115)	149		21	665 (0715)	-142 (1100)	568 (1930)	-269 (2330) 22
1300 (2045)	-12 (2200)	92		22	672 (0745)	-199 (1200)	564 (1930)	-268
1401 (2045)	-6 (2230)	36		23	-1 (0015)	704 (0845)	-193 (1245)	533 (2000) -248
1847				24	-49 (0115)	601 (0915)	-237 (1345)	468 (2045) -200
3149				25	-99 (0200)	554 (0945)	-271 (1445)	432 (2130) -145
5303				26	-141 (0230)	604 (1045)	-203 (1500)	576 (2245) -49
6974				27	-136 (0245)	671 (1130)	-176 (1530)	525 (2315) -16
6861				28	-186 (0330)	579 (1145)	-244 (1630)	517
5451				29	0 (0015)	-202 (0415)	554 (1300)	-157 (1730) 411
4687				30	39 (0115)	-114 (0515)	470 (1330)	-152 (1815) 392
4447								

JULY 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			
1	93 (0215)	-101 (0600)	474 (1430)	-184 (1900) 304
2	135 (0300)	-112 (0700)	419 (1445)	-188 (1930) 288
3	251 (0445)	-27 (0700)	482 (1600)	-141 (2015) 250
4	328 (0530)	-43 (0830)	444 (1645)	-139 (2100) 175
5	397 (0615)	-72 (0930)	336 (1715)	-216 (2215) 80
6	441 (0700)	-85 (1030)	436 (1830)	-145 (2300) 45
7	494 (0730)	-120 (1130)	434 (1915)	-204 (2400) 3
8	510 (0800)	-182 (1245)	388 (1945)	-241
9	-24 (0045)	513 (0845)	-182 (1330)	419 (2045) -169
10	-67 (0130)	573 (0945)	-143 (1400)	503 (2145) -49
11	-103 (0215)	585 (1045)	-188 (1500)	488 (2230) -57
12	-166 (0315)	528 (1115)	-227 (1600)	451 (2315) -16
13	-224 (0415)	531 (1200)	-221 (1645)	494
14	6 (0030)	-202 (0500)	557 (1300)	-242 (1745) 448
15	58 (0130)	-217 (0600)	474 (1345)	-259 (1900) 366
16	132 (0230)	-166 (0645)	528 (1445)	-200 (1930) 342
17	259 (0400)	-142 (0800)	485 (1530)	-253 (2030) 248
18	365 (0500)	-136 (0845)	543 (1645)	-199 (2115) 178
19	455 (0615)	-112 (1000)	435 (1730)	-226 (2215) 92
20	531 (0715)	-126 (1100)	443 (1830)	-235 (2315) 17
21	553 (0745)	-168 (1200)	445 (1915)	-262
22	0 (0015)	558 (0815)	-205 (1245)	441 (2000) -242
23	-29 (0100)	534 (0900)	-226 (1330)	435 (2045) -185
24	-73 (0145)	528 (0930)	-232 (1415)	457 (2130) -132
25	-108 (0215)	531 (1000)	-271 (1500)	464 (2200) -105
26	-172 (0300)	537 (1030)	-283 (1545)	473 (2300) -49
27	-177 (0330)	594 (1115)	-321 (1615)	516 (2345) -2
28	-197 (0400)	536 (1145)	-263 (1645)	516
29				
30				
31				

CONNECTICUT RIVER BASIN

195

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

DECEMBER 1978 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET						
1	-20 (0115)	474 (0915)	-284 (1430)	545 (2245)	-32		
2	-100 (0245)	459 (1015)	-233 (1515)	544 (2345)	-1		
3	-115 (0345)	383 (1045)	-249 (1615)	448 (2345)	0		
4	-214 (0500)	400 (1200)	-258 (1715)	514			
5	80 (0200)	-31 (0445)	530 (1400)	-94 (1730)	446		
6	132 (0300)	-44 (0600)	532 (1445)	-102 (1830)	366		
7	233 (0430)	-21 (0700)	503 (1545)	-93 (1945)	260		
8	256 (0430)	-98 (0830)	531 (1730)	-65 (2045)	180		
9	342 (0530)	-110 (0915)	618 (1900)	-2 (2015)	143		
10	1536						
11	547 (0815)	-29 (1045)	647				
12	514 (0400)	-115 (1200)	645 (2200)	0 (2215)	0 (2230)	0 (2245)	13
13	581 (0900)	-71 (1230)	661				
14	598 (0930)	-134 (1330)	540 (2315)	-5			
15	-5 (0100)	495 (1015)	-97 (1400)	596 (2330)	-4		
16	-14 (0130)	507 (1030)	-156 (1445)	539 (2315)	-19		
17	-132 (0330)	432 (1115)	-222 (1530)	459			
18	2 (0015)	-127 (0445)	358 (1230)	-164 (1715)	316		
19	43 (0115)	-85 (0500)	321 (1215)	-223 (1730)	298		
20	4 (0015)	-201 (0530)	354 (1245)	-147 (1745)	424		
21	35 (0115)	-234 (0630)	556 (1530)	-9 (1700)	366		
22	130 (0245)	-108 (0645)	420 (1515)	-92 (1845)	297		
23	164 (0315)	-131 (0745)	477 (1630)	-65 (1945)	214		
24	199 (0400)	-207 (0900)	398 (1645)	-148 (2130)	125		
25	179 (0315)	-581 (1030)	1070				
26	324 (0615)	-133 (1030)	367 (1415)	-151 (2245)	44		
27	389 (0630)	-251 (1130)	540 (2000)	-82 (2315)	12		
28	470 (0815)	-188 (1315)	329 (1945)	-210			
29	-26 (0100)	357 (0745)	-344 (1330)	530 (2115)	-131		
30	-53 (0130)	503 (0900)	-249 (1400)	590 (2200)	-83		
31	-101 (0215)	501 (0945)	-311 (1500)	563 (2245)	-38		

MARCH 1979 DISCHARGE AT STATION 1193000

MARCH 1979 DISCHARGE AT STATION 1193000

DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET		VOLUME(S) IN MILLIONS OF CUBIC FEET	
1			5428	
2			5370	
3			5027	
4			6656	
5			5715	
6	3188		5345	
7	5797		5675	
8	8139		4647	
9	8761		3407	
10	8260		3056	
11	7862		3743	
12	7664		3636	
13	7137		3651	
14	6255		3215	
15	5340		2506	
16	5132		2020	
17	4754		1040	
18	4984		1783	
19	3486		2400	
20	3227		6053	
21	3070		3665	
22	3241		3786	
23	3617		3550	
24	4514		3000	
25	5472		4044	
26	6832		2167	
27	8359		4784	
28	8643		5369	
29	7700		6467	
30	6452		6947	
31	5162			

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MAY 1979 DISCHARGE AT STATION 1193000				JUNE 1979 DISCHARGE AT STATION 1193000			
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET			DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET		
1	6566			1	5262		
2	5143			2	4814		
3	3838			3	4947		
4	3401			4	3362		
5	3506			5	2742		
6	3412			6	2421		
7	3070			7	1973 (2600)	-84 (2230)	39
8	2776			8	1987 (2030)	-78 (2315)	23
9	2477			9	1604 (1000)	-14 (1145)	792 (2045)
10	2130			10	-1 (0015)	929 (1000)	-86 (1245)
11	2120			11	-34 (0115)	-12 (1030)	-117 (1345)
12	1562			12	-102 (0200)	793 (1115)	-155 (1430)
13	1444			13	-140 (0245)	847 (1230)	-49 (1515)
14	1455			14	2 (0015)	-125 (0330)	878 (1315)
15	1449			15	54 (0115)	-104 (0415)	920 (1430)
16	1463			16	165 (0230)	-75 (0515)	788 (1445)
17	1754			17	247 (0330)	-111 (0630)	729 (1530)
18	1876			18	311 (0400)	-174 (0800)	801 (1600)
19	1476			19	427 (0500)	-153 (0900)	614 (1700)
20	476 (1730)	-84 (2100)	140	20	622 (0645)	-105 (0945)	647 (1800)
21	1077 (1845)	-20 (2115)	149	21	665 (0715)	-142 (1100)	568 (1930)
22	1300 (2045)	-12 (2200)	52	22	572 (0745)	-104 (1200)	564 (1930)
23	1401 (2045)	-6 (2230)	36	23	-1 (0015)	704 (0845)	-143 (1245)
24	1847			24	-66 (0115)	801 (0915)	-237 (1345)
25	3149			25	-99 (0200)	554 (0945)	-271 (1445)
26	5303			26	-141 (0231)	504 (1045)	-203 (1500)
27	6974			27	-138 (0245)	871 (1130)	-176 (1530)
28	6861			28	-184 (0330)	579 (1145)	-244 (1630)
29	5451			29	0 (0015)	-202 (1415)	554 (1600)
30	4687			30	30 (0115)	-114 (0515)	470 (1330)
31	4447						

JULY 1979 DISCHARGE AT STATION 1193000			
DAY	VOLUME(S) IN MILLIONS OF CUBIC FEET		
1	42 (0218)	-101 (0600)	474 (1430)
2	135 (0400)	-112 (0700)	415 (1445)
3	251 (0445)	-27 (0740)	422 (1490)
4	529 (0530)	-43 (0830)	444 (1645)
5	387 (0615)	-72 (0930)	325 (1715)
6	441 (0700)	-55 (1030)	436 (1830)
7	494 (0730)	-120 (1130)	434 (1915)
8	510 (0800)	-112 (1245)	428 (1945)
9	-24 (0845)	513 (0845)	-122 (1330)
10	-67 (0930)	573 (0945)	-143 (1400)
11	-103 (0915)	545 (1045)	-154 (1500)
12	-156 (0915)	520 (1115)	-227 (1600)
13	-224 (0915)	531 (1200)	-221 (1645)
14	0 (0830)	-292 (0500)	552 (1300)
15	89 (0930)	-217 (0800)	474 (1345)
16	132 (0930)	-166 (0845)	529 (1445)
17	254 (0930)	-142 (0800)	485 (1530)
18	465 (0900)	-146 (0845)	544 (1645)
19	655 (0815)	-112 (1000)	435 (1730)
20	531 (0715)	-126 (1100)	443 (1830)
21	653 (0745)	-160 (1200)	445 (1915)
22	0 (0015)	588 (0915)	-205 (1245)
23	-20 (0100)	534 (0900)	-226 (1330)
24	-73 (0145)	529 (0945)	-232 (1415)
25	-104 (0215)	531 (1000)	-271 (1500)
26	-172 (0300)	547 (1030)	-243 (1545)
27	-177 (0330)	546 (1115)	-421 (1615)
28	-147 (0400)	536 (1145)	-263 (1545)
29			515
30			
31			

CONNECTICUT RIVER BASIN

197

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

AUGUST 1979 DISCHARGE AT STATION 1193000

DAY VOLUME(S) IN MILLIONS OF CUBIC FEET

1						
2						
3	354 (0500)	-171 (0915)	416 (1645)	-143 (2130)	168	
4	454 (0630)	-90 (1000)	444 (1745)	-129 (2230)	72	
5	475 (0645)	-144 (1115)	412 (1830)	-246 (2330)	7	
6	527 (0745)	-172 (1200)	412 (1915)	-246		
7	-5 (0030)	543 (0530)	-207 (1300)	451 (2015)	-209	
8	-53 (0130)	533 (0915)	-201 (1345)	438 (2100)	-153	
9	-107 (0215)	544 (1000)	-217 (1445)	451 (2200)	-92	
10	-160 (0300)	509 (1030)	-240 (1545)	511 (2330)	-19	
11	-215 (0400)	513 (1130)	-243 (1630)	505 (2400)	0	
12	-198 (0430)	531 (1215)	-229 (1730)	497		
13	46 (0115)	-157 (0515)	580 (1330)	-210 (1800)	454	
14	154 (0245)	-69 (0600)	559 (1445)	-129 (1830)	393	
15	243 (0400)	-72 (0715)	452 (1515)	-210 (2000)	254	
16						
17						
18	446 (0630)	-144 (1045)	427 (1815)	-213 (2315)	22	
19	477 (0715)	-158 (1145)	431 (1900)	-256 (2400)	0	
20	484 (0800)	-208 (1245)	402 (1945)	-226		
21	-10 (0030)	539 (0845)	-175 (1300)	472 (2045)	-140	
22	-33 (0115)	548 (0930)	-175 (1345)	477 (2130)	-120	
23	-64 (0145)	525 (0945)	-193 (1415)	464 (2215)	-66	
24	-87 (0215)	503 (1015)	-203 (1500)	467 (2245)	-43	
25	-124 (0300)	510 (1100)	-195 (1530)	495 (2330)	-10	
26	-143 (0330)	446 (1130)	-221 (1630)	441 (2400)	-1	
27	-157 (0415)	453 (1200)	-235 (1645)	443		
28	33 (0115)	-123 (0430)	495 (1300)	-190 (1715)	480	
29	83 (0200)	-80 (0515)	453 (1330)	-173 (1800)	435	
30	131 (0245)	-82 (0615)	473 (1430)	-192 (1900)	370	
31	238 (0415)	-43 (0715)	451 (1515)	-203 (2000)	278	

SEPTEMBER 1979 DISCHARGE AT STATION 1193000

DAY VOLUME(S) IN MILLIONS OF CUBIC FEET

1	325 (0515)	-84 (0830)	428 (1615)	-213 (2100)	190	
2	382 (0545)	-119 (0930)	445 (1700)	-297 (2215)	92	
3	447 (0615)	-180 (1045)	433 (1815)	-278 (2315)	23	
4	510 (0715)	-209 (1145)	458 (1915)	-258 (2400)	1	
5	582 (0815)	-198 (1230)	549 (2015)	-144		
6	-18 (0045)	624 (0645)	-235 (1330)	812 (2300)	-28	
7	-10 (0045)	753 (1000)	-116 (1330)	879 (2330)	-6	
8	-22 (0130)	830 (1115)	-102 (1430)	783 (2345)	-2	
9	-79 (0245)	718 (1145)	-129 (1530)	697		
10	10 (0030)	-93 (0345)	587 (1200)	-200 (1645)	574	
11	35 (0100)	-124 (0445)	535 (1300)	-227 (1745)	458	
12	107 (0215)	-110 (0600)	448 (1345)	-243 (1830)	392	
13	180 (0315)	-92 (0700)	460 (1500)	-123 (1945)	316	
14	272 (0415)	-101 (0800)	484 (1600)	-166 (2015)	269	
15	449 (0630)	-23 (0830)	488 (1730)	-139 (2130)	144	
16	426 (0630)	-119 (1015)	401 (1800)	-305 (2245)	56	
17	463 (0715)	-136 (1115)	398 (1945)	-210 (2330)	13	
18	500 (0745)	-156 (1200)	421 (1915)	-190 (2400)	1	
19	523 (0800)	-198 (1230)	439 (2030)	-167		
20	-18 (0045)	449 (0830)	-253 (1330)	490 (2100)	-135	
21	-32 (0115)	549 (0915)	-220 (1400)	515 (2145)	-84	
22	-75 (0200)	595 (1015)	-290 (1430)	561 (2245)	-39	
23						
24	-87 (0245)	545 (1045)	-277 (1530)	402 (2400)	-3	
25	-105 (0330)	535 (1145)	-143 (1600)	553		
26	3 (0015)	-128 (0415)	512 (1215)	-257 (1645)	528	
27	51 (0130)	-94 (0500)	464 (1245)	-230 (1730)	471	
28						
29						
30	242 (0400)	-129 (0515)	458 (1600)	-171 (2030)	225	

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, 53 micromhos Aug. 4, 1975.

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, 17.1 mg/L Dec. 1, 1978; minimum, 0.6 mg/L Aug. 11, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 193 micromhos Dec. 6, May 24; minimum, 59 micromhos March 28.

pH: Maximum, 9.1 units June 24; minimum, 1.9 units April 30.

WATER TEMPERATURES: Maximum, 30.0°C July 30, Aug. 1-3, 5; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 17.1 mg/L Dec. 1; minimum, 4.6 mg/L Dec. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
18...	0930	5.0	163	7.4	2.0	12.0	--	3.0	11.2	104	6300	440
NOV												
09...	0945	5.0	155	7.0	8.5	11.0	--	5.0	10.5	94	1500	300
DEC												
15...	1050	5.0	167	7.3	3.5	2.0	10	4.0	13.3	96	20000	2600
JAN												
12...	1100	5.0	114	7.3	<5.0	.5	--	4.0	14.0	98	3700	2200
FEB												
09...	1045	5.0	148	6.6	<5.0	.5	--	4.0	14.7	102	3800	1000
MAR												
14...	1215	5.0	115	6.7	--	3.0	20	10	14.4	107	10000	1200
APR												
10...	1400	5.0	108	6.6	8.5	4.5	--	3.0	13.0	100	14000	3000
MAY												
11...	1000	5.0	100	7.0	23.0	18.5	10	15	9.7	103	--	380
JUN												
14...	1030	5.0	105	6.6	19.0	20.0	--	3.0	8.6	93	6700	88
JUL												
17...	1010	5.0	135	6.8	29.0	27.5	--	5.0	7.0	88	2600	80
AUG												
07...	1020	5.0	135	6.7	25.0	27.0	10	7.0	7.2	89	2100	220
SEP												
18...	1000	5.0	119	7.3	23.0	21.5	--	1.0	8.3	93	2600	380

DATE	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- LINEITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
18...	K15	--	--	--	--	--	--	--	--	--	--	--
NOV												
09...	K14	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	1500	42	12	13	2.4	30	--	15	15	5.5	88	.12
JAN												
12...	540	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	76	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	440	24	3	7.5	1.3	21	--	9.0	8.3	5.2	56	.08
APR												
10...	680	--	--	--	--	--	--	--	--	--	--	--
MAY												
11...	37	34	14	11	1.6	20	--	10	9.2	5.2	61	.08
JUN												
14...	K4	--	--	--	--	--	--	--	--	--	--	--
JUL												
17...	K4	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	K4	42	15	13	2.2	27	11	14	14	3.5	86	.12
SEP												
18...	K12	--	--	--	--	--	--	--	--	--	--	--

< 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

199

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
DEC 15...	96	.38	.27	--	.21	.48	1.1	4.7	.14
MAR 14...	84	.39	.11	--	.41	.52	.91	4.0	.07
MAY 11...	96	.33	.12	.15	.59	.71	1.0	4.6	.05
AUG 07...	110	.49	.14	.17	.48	.62	1.1	4.9	.14

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)
DEC 15...	--	0	160	10	30	3.3	.10	.000	.000
MAR 14...	--	4	100	20	0	6.9	.00	.000	.000
MAY 11...	.15	4	120	30	10	5.0	.00	6.41	.000
AUG 07...	.43	6	30	4	20	10	.00	20.9	.000

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	141	133	139	152	146	149	165	159	163
2	---	---	---	142	137	139	168	148	156	167	154	159
3	---	---	---	139	132	136	171	163	167	162	132	151
4	---	---	---	136	131	132	170	162	165	128	97	108
5	---	---	---	137	133	135	173	165	167	104	97	102
6	---	---	---	137	135	136	193	172	180	105	97	101
7	---	---	---	137	133	136	181	154	172	104	96	100
8	---	---	---	---	---	---	166	163	165	116	91	102
9	---	---	---	---	---	---	161	150	155	113	100	108
10	---	---	---	---	---	---	155	151	153	99	95	97
11	---	---	---	---	---	---	154	148	151	96	91	94
12	---	---	---	---	---	---	150	141	144	102	96	99
13	---	---	---	---	---	---	151	144	146	106	101	104
14	---	---	---	---	---	---	147	139	143	130	99	107
15	---	---	---	---	---	---	144	131	140	136	123	128
16	---	---	---	---	---	---	135	130	132	150	137	145
17	---	---	---	143	129	137	140	131	136	145	127	136
18	---	---	---	136	130	133	144	135	139	130	115	124
19	159	155	158	141	136	137	150	141	145	122	117	120
20	155	151	153	146	143	144	154	148	149	124	118	121
21	155	150	152	154	148	151	162	149	154	124	117	121
22	160	153	156	156	144	149	165	157	161	181	125	143
23	163	158	159	144	140	141	186	157	170	177	138	160
24	165	160	163	141	137	139	174	161	166	148	120	131
25	166	163	164	139	135	137	183	160	167	120	91	103
26	167	161	164	137	134	135	188	183	186	96	90	93
27	169	167	168	140	136	138	189	182	186	90	87	88
28	168	164	167	149	139	143	188	176	180	91	86	88
29	165	151	156	148	142	145	182	172	177	99	91	94
30	154	149	152	149	142	145	180	171	176	100	96	99
31	150	139	143	---	---	---	173	164	168	104	99	102
MONTH	169	139	158	156	129	139	193	130	160	181	86	116
FEBRUARY			MARCH			APRIL			MAY			
1	108	100	104	107	98	103	76	72	74	68	65	66
2	109	105	107	115	105	111	73	68	70	75	68	71
3	114	106	109	118	112	115	73	67	70	76	73	75
4	113	109	111	117	112	115	67	65	67	82	74	79
5	117	111	113	115	110	113	68	65	66	86	78	83
6	117	114	116	115	108	112	72	68	70	86	80	83
7	124	117	122	---	---	---	73	71	72	90	82	86
8	127	122	124	---	---	---	78	71	75	90	86	88
9	128	123	126	---	---	---	81	73	77	94	88	91
10	130	126	128	---	---	---	91	78	86	97	93	95
11	135	128	132	---	---	---	89	83	85	102	97	99
12	138	131	135	---	---	---	88	82	85	104	98	100
13	139	132	135	---	---	---	91	84	87	---	---	---
14	141	134	137	---	---	---	94	89	92	---	---	---
15	139	129	134	75	73	74	96	91	93	---	---	---
16	136	127	132	76	71	73	96	90	93	---	---	---
17	140	132	136	80	74	77	100	93	96	---	---	---
18	134	128	131	83	79	81	97	90	94	---	---	---
19	129	119	122	82	77	80	93	88	91	114	110	111
20	127	121	124	84	78	81	90	87	88	116	114	115
21	131	124	129	85	80	83	92	88	90	122	115	118
22	142	132	137	84	79	82	92	88	90	125	117	123
23	167	144	154	81	76	79	91	84	87	127	119	122
24	168	152	161	77	74	75	85	79	82	193	119	126
25	153	124	137	77	71	75	80	77	78	125	109	118
26	124	105	112	71	64	69	78	75	76	108	81	90
27	116	100	105	64	60	61	85	74	79	---	---	---
28	107	97	101	61	59	60	82	73	78	---	---	---
29	---	---	---	64	60	61	72	57	70	---	---	---
30	---	---	---	68	63	66	66	64	65	---	---	---
31	---	---	---	74	68	71	---	---	---	---	---	---
MONTH	168	97	126	118	59	83	100	64	81	193	65	97

CONNECTICUT RIVER BASIN

201

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	71	66	69	152	147	149	143	141	142	138	131	135
2	78	70	74	155	152	154	145	143	144	135	130	132
3	81	77	79	157	152	153	143	139	141	136	134	135
4	87	78	83	163	157	159	142	140	141	138	133	136
5	92	83	88	157	145	151	147	140	145	135	133	134
6	94	87	91	147	138	140	145	129	133	137	134	136
7	95	89	92	138	133	134	140	130	137	141	134	137
8	99	92	93	136	134	135	---	---	---	138	121	129
9	97	92	94	137	135	136	---	---	---	123	115	119
10	97	91	95	139	134	136	---	---	---	116	114	115
11	106	96	99	141	135	139	---	---	---	117	104	111
12	105	101	102	142	139	140	---	---	---	121	106	114
13	110	102	106	144	140	143	---	---	---	124	118	121
14	117	105	107	148	143	145	---	---	---	128	123	125
15	109	101	104	150	147	149	---	---	---	133	127	130
16	114	103	107	149	148	149	---	---	---	130	125	128
17	110	108	109	151	148	150	---	---	---	129	126	127
18	113	109	110	151	146	148	---	---	---	129	125	127
19	118	112	115	148	132	141	---	---	---	131	127	129
20	128	118	126	137	132	136	---	---	---	137	130	133
21	127	120	123	139	135	137	---	---	---	138	135	136
22	123	121	122	139	136	137	---	---	---	142	133	136
23	124	120	122	138	136	137	---	---	---	142	136	139
24	129	122	126	139	135	137	---	---	---	140	134	137
25	134	128	130	137	135	136	---	---	---	137	126	133
26	139	132	136	139	136	138	---	---	---	127	121	125
27	146	139	141	143	139	141	---	---	---	124	120	121
28	153	146	150	146	142	143	151	149	152	129	121	125
29	159	149	153	150	145	148	151	147	150	128	124	127
30	149	147	148	149	145	147	150	134	143	124	118	121
31	---	---	---	147	143	146	139	133	135	---	---	---
MONTH	159	66	110	163	132	143	161	129	142	142	104	128

PH (UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	7.6	7.2	7.3	7.3	7.3	7.3	7.1	7.0	7.0
2	---	---	---	7.3	7.2	7.3	7.3	7.2	7.2	7.1	7.0	7.1
3	---	---	---	7.4	7.2	7.3	7.2	7.2	7.2	7.1	7.0	7.1
4	---	---	---	7.3	7.2	7.2	7.2	7.1	7.2	7.0	6.9	7.0
5	---	---	---	7.2	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.1
6	---	---	---	7.3	7.1	7.2	7.1	7.0	7.1	7.1	7.1	7.1
7	---	---	---	7.2	7.1	7.2	7.1	7.0	7.1	7.1	7.0	7.1
8	---	---	---	---	---	---	7.1	7.0	7.1	7.1	7.0	7.0
9	---	---	---	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0
10	---	---	---	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0
11	---	---	---	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0
12	---	---	---	---	---	---	7.2	7.1	7.1	7.1	7.0	7.0
13	---	---	---	---	---	---	7.2	7.1	7.1	7.1	7.1	7.1
14	---	---	---	---	---	---	7.2	7.1	7.1	7.1	7.1	7.1
15	---	---	---	---	---	---	7.2	7.1	7.2	7.1	7.0	7.0
16	---	---	---	---	---	---	7.2	7.1	7.1	7.0	6.9	6.9
17	---	---	---	7.0	7.0	7.0	7.2	7.1	7.2	6.9	6.9	6.9
18	---	---	---	7.2	7.0	7.1	7.3	7.1	7.2	6.9	6.8	6.9
19	7.8	7.5	7.7	7.1	7.0	7.1	7.3	7.2	7.2	6.8	6.8	6.8
20	7.9	7.3	7.5	7.0	7.0	7.0	7.3	7.1	7.2	6.9	6.8	6.9
21	8.1	7.4	7.7	7.1	7.0	7.0	7.2	7.2	7.2	6.9	6.9	6.9
22	8.4	7.5	8.0	7.1	7.0	7.1	7.2	7.1	7.2	6.9	6.8	6.8
23	8.4	7.7	8.0	7.3	7.1	7.2	7.2	7.1	7.2	6.8	6.8	6.8
24	8.3	7.6	8.0	7.2	7.2	7.2	7.2	7.1	7.2	6.9	6.8	6.8
25	8.5	7.7	8.0	7.3	7.2	7.2	7.2	7.1	7.2	6.9	6.8	6.8
26	8.1	7.6	7.8	7.3	7.2	7.3	7.2	7.1	7.2	6.8	6.7	6.7
27	7.8	7.4	7.5	7.3	7.3	7.3	7.2	7.1	7.1	6.8	6.7	6.7
28	7.7	7.3	7.4	7.4	7.3	7.3	7.2	7.1	7.2	6.8	6.7	6.8
29	7.6	7.1	7.3	7.4	7.3	7.3	7.2	7.1	7.1	7.0	6.8	6.9
30	7.3	7.1	7.2	7.4	7.3	7.4	7.2	7.1	7.1	7.0	6.9	7.0
31	7.3	7.1	7.2	---	---	---	7.1	7.0	7.0	7.0	6.9	7.0
MONTH	8.5	7.1	7.6	7.6	7.0	7.2	7.3	7.0	7.2	7.1	6.7	7.0

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

PH (UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.1	6.9	6.9	6.9
2	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.0	7.1	6.9	6.9	6.9
3	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1	7.0	6.9	6.9
4	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1	7.0	6.9	6.9
5	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.1	7.1	7.0	6.9	7.0
6	7.1	7.1	7.1	7.0	6.9	7.0	7.1	7.1	7.1	7.0	7.0	7.0
7	7.1	7.0	7.1	---	---	---	7.1	7.1	7.1	7.0	6.8	7.0
8	7.1	7.0	7.1	---	---	---	7.2	7.1	7.1	7.0	6.9	7.0
9	---	---	---	---	---	---	7.1	7.1	7.1	7.0	6.9	7.0
10	---	---	---	---	---	---	7.2	7.1	7.1	7.0	6.9	6.9
11	---	---	---	---	---	---	7.1	7.1	7.1	7.0	6.9	6.9
12	---	---	---	---	---	---	7.1	7.1	7.1	7.0	6.9	6.9
13	---	---	---	---	---	---	7.1	7.1	7.1	---	---	---
14	---	---	---	---	---	---	7.1	7.1	7.1	---	---	---
15	---	---	---	7.3	7.2	7.3	7.1	7.1	7.1	---	---	---
16	---	---	---	7.3	7.2	7.3	7.2	7.1	7.2	---	---	---
17	7.1	7.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	---	---	---
18	7.0	7.0	7.0	7.2	7.1	7.2	7.2	7.1	7.2	---	---	---
19	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.0	6.9	7.0
20	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.2	7.2	7.0	6.9	6.9
21	7.0	6.9	7.0	7.0	6.9	7.0	7.2	7.2	7.2	7.0	6.9	7.0
22	7.0	6.9	7.0	7.0	7.0	7.0	7.3	7.2	7.2	7.1	6.9	7.0
23	7.1	7.0	7.0	7.0	7.0	7.0	7.2	7.2	7.2	7.0	6.9	7.0
24	7.1	7.0	7.0	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.9	6.9
25	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.1	7.2	6.9	6.9	6.9
26	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.8	6.9
27	7.3	7.0	7.0	7.0	7.0	7.0	7.2	7.1	7.1	---	---	---
28	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.0	---	---	---
29	---	---	---	7.0	7.0	7.0	7.0	7.0	6.9	---	---	---
30	---	---	---	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
31	---	---	---	7.1	7.0	7.1	---	---	---	---	---	---
MONTH	7.3	6.9	7.0	7.3	6.9	7.1	7.3	7.0	7.1	7.1	6.8	7.0
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	7.8	7.4	7.6	7.3	7.1	7.2	8.7	7.2	7.9
2	---	---	---	7.7	7.3	7.4	7.7	7.1	7.3	8.2	7.2	7.6
3	---	---	---	8.4	7.5	7.9	7.9	7.3	7.5	7.8	7.3	7.5
4	---	---	---	8.4	7.5	8.0	7.7	7.3	7.5	7.4	7.0	7.2
5	---	---	---	8.6	7.5	8.1	7.5	7.1	7.2	7.3	7.0	7.2
6	7.0	6.9	7.0	8.7	7.6	8.2	7.1	6.8	6.9	7.3	7.1	7.2
7	7.0	6.9	6.9	8.9	8.0	8.4	7.1	6.8	6.9	7.4	7.1	7.2
8	7.1	6.9	7.0	8.9	7.6	8.4	---	---	---	7.1	7.0	7.1
9	7.1	7.0	7.0	8.7	7.9	8.4	---	---	---	7.3	7.1	7.2
10	7.2	7.0	7.1	8.6	7.9	8.2	---	---	---	7.5	7.2	7.3
11	7.3	7.1	7.2	8.6	7.6	8.1	---	---	---	7.7	7.2	7.4
12	7.5	7.2	7.3	8.5	7.7	8.0	---	---	---	7.6	7.2	7.4
13	7.4	7.2	7.3	8.6	7.7	8.2	---	---	---	8.0	7.4	7.6
14	7.7	7.2	7.3	8.3	7.7	8.0	---	---	---	7.6	7.4	7.5
15	7.9	7.3	7.5	7.9	7.5	7.7	---	---	---	7.6	7.3	7.5
16	7.8	7.3	7.5	7.8	7.2	7.5	---	---	---	7.7	7.2	7.4
17	7.7	7.3	7.5	8.1	7.3	7.5	---	---	---	7.6	7.2	7.4
18	7.9	7.3	7.5	7.6	7.3	7.5	---	---	---	7.9	7.3	7.5
19	7.8	7.2	7.5	7.5	7.0	7.2	---	---	---	8.5	7.3	7.6
20	7.9	7.3	7.6	7.5	7.0	7.2	---	---	---	8.4	7.4	7.7
21	8.7	7.5	8.1	7.3	7.0	7.1	---	---	---	7.8	7.4	7.5
22	8.6	7.5	8.1	7.4	7.0	7.1	---	---	---	7.4	7.3	7.3
23	8.8	7.7	8.2	7.3	6.9	7.1	---	---	---	7.3	7.2	7.3
24	9.1	7.6	8.4	7.2	6.9	7.0	---	---	---	7.3	7.1	7.2
25	9.0	8.0	8.5	6.9	6.8	6.9	---	---	---	7.3	7.2	7.2
26	8.9	8.2	8.6	7.0	6.8	6.9	---	---	---	7.3	7.2	7.2
27	8.8	8.0	8.5	7.2	6.9	7.0	---	---	---	7.3	7.2	7.2
28	8.8	8.1	8.4	7.4	6.9	7.0	9.0	8.0	8.5	7.4	7.2	7.3
29	8.8	8.3	8.5	7.3	6.8	7.0	8.5	7.7	8.1	7.4	7.3	7.3
30	8.5	7.7	8.2	7.6	6.8	7.2	7.8	7.3	7.5	7.3	7.2	7.3
31	---	---	---	7.4	7.2	7.2	7.5	7.1	7.2	---	---	---
MONTH	9.1	6.9	7.7	8.9	6.8	7.6	9.0	6.8	7.4	8.7	7.0	7.4

CONNECTICUT RIVER BASIN

203

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	16.0	16.5	23.5	23.0	23.5	30.0	29.0	29.0	26.5	25.5	26.0
2	17.5	17.0	17.5	24.0	23.5	23.5	30.0	29.0	29.5	26.0	25.5	25.5
3	18.0	17.5	18.0	24.5	23.5	24.0	30.0	29.0	29.0	26.0	25.5	25.5
4	18.5	16.5	17.5	24.5	23.5	24.0	29.5	28.5	29.0	26.5	25.0	25.5
5	20.0	18.0	19.0	23.5	23.0	23.5	30.0	27.0	29.0	26.5	25.0	25.5
6	20.5	19.0	20.0	23.0	22.5	22.5	29.0	28.0	28.5	26.0	25.5	25.5
7	21.0	19.5	20.0	23.0	22.0	22.5	29.0	28.0	28.0	26.0	24.5	25.0
8	21.5	20.0	20.5	23.5	22.0	22.5	---	---	---	24.5	21.5	24.0
9	21.5	20.5	21.0	24.0	22.5	23.0	---	---	---	23.5	22.5	23.0
10	22.0	21.0	21.5	24.5	23.0	23.5	---	---	---	23.0	22.0	22.5
11	22.5	21.5	22.0	25.5	24.0	24.5	---	---	---	22.5	21.5	22.0
12	22.0	21.5	21.5	26.0	24.5	25.0	---	---	---	22.5	21.5	22.0
13	21.5	21.0	21.0	26.5	25.0	26.0	---	---	---	22.5	21.5	22.0
14	21.5	20.5	21.0	27.5	25.5	26.5	---	---	---	22.5	22.0	22.5
15	22.5	20.5	21.0	27.5	27.0	27.0	---	---	---	22.5	21.5	22.0
16	23.0	21.0	22.0	28.5	27.0	27.5	---	---	---	22.5	21.5	22.0
17	23.5	22.5	23.0	29.0	27.5	28.5	---	---	---	22.5	21.5	22.0
18	24.5	23.0	23.5	29.0	28.0	28.5	---	---	---	22.5	21.5	22.0
19	24.5	23.0	23.5	28.5	27.0	28.0	---	---	---	22.0	20.5	21.0
20	24.5	23.5	24.0	28.0	27.5	27.5	---	---	---	21.0	19.5	20.5
21	25.0	23.5	24.0	27.5	26.5	27.0	---	---	---	20.5	20.0	20.0
22	24.5	23.5	24.0	28.0	27.0	27.0	---	---	---	20.0	19.0	19.5
23	24.0	23.0	23.5	28.0	27.0	27.5	---	---	---	19.0	18.0	18.5
24	24.0	23.0	23.5	28.0	27.0	27.5	---	---	---	19.0	18.0	18.5
25	23.5	22.5	23.0	28.0	27.0	27.0	---	---	---	18.5	17.5	18.0
26	23.5	22.5	23.0	28.5	27.5	28.0	---	---	---	18.5	17.5	18.0
27	23.5	22.5	23.0	29.5	28.0	28.5	---	---	---	18.5	17.5	18.0
28	23.5	22.5	23.0	29.5	28.0	29.0	25.5	24.5	25.5	19.0	18.0	18.5
29	24.0	22.5	23.0	29.5	28.5	29.0	26.0	25.5	26.0	19.5	19.0	19.0
30	23.5	23.0	23.5	30.0	29.0	29.5	26.5	25.5	26.0	19.0	18.5	19.0
31	---	---	---	29.5	29.0	29.5	26.5	25.5	26.0	---	---	---
MONTH	25.0	16.0	21.5	30.0	22.0	26.0	30.0	24.5	28.0	26.5	17.5	22.0

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.6	9.8	10.1	17.1	6.5	13.2	13.3	12.7	12.9
2	---	---	---	10.3	9.7	10.0	16.5	14.8	15.8	13.5	13.2	13.3
3	---	---	---	10.8	10.0	10.2	17.1	4.6	12.7	13.4	12.3	12.8
4	---	---	---	10.4	9.7	10.1	12.4	11.9	12.1	13.4	12.5	13.0
5	---	---	---	10.1	9.6	9.9	12.5	11.9	12.2	14.0	13.5	13.8
6	---	---	---	10.4	9.7	10.1	12.2	11.8	12.0	14.1	14.0	14.0
7	---	---	---	10.1	9.8	10.0	12.3	11.9	12.1	14.1	13.9	13.9
8	---	---	---	---	---	---	12.9	12.3	12.5	14.1	13.6	13.9
9	---	---	---	---	---	---	12.7	12.2	12.4	13.7	13.6	13.6
10	---	---	---	---	---	---	12.9	11.8	12.2	13.9	13.7	13.8
11	---	---	---	---	---	---	12.3	11.6	11.9	13.9	13.8	13.9
12	---	---	---	---	---	---	12.6	11.7	12.1	14.0	13.7	13.8
13	---	---	---	---	---	---	12.8	12.1	12.4	14.0	13.8	13.9
14	---	---	---	---	---	---	13.2	12.6	12.8	14.0	13.5	13.8
15	---	---	---	---	---	---	13.2	12.5	12.8	13.8	13.4	13.6
16	---	---	---	---	---	---	13.3	12.1	12.5	13.7	13.4	13.5
17	---	---	---	---	---	---	12.7	12.2	12.4	13.9	13.6	13.8
18	---	---	---	---	---	---	13.2	12.5	12.8	13.9	13.7	13.8
19	10.4	9.5	10.0	---	---	---	13.1	12.3	12.6	13.8	13.5	13.7
20	10.0	9.1	9.6	---	---	---	12.8	12.4	12.5	13.7	13.5	13.7
21	10.2	9.4	9.8	---	---	---	13.4	12.5	12.9	13.8	13.6	13.7
22	10.6	9.5	10.1	---	---	---	13.4	13.1	13.3	13.6	13.3	13.4
23	10.7	9.8	10.1	---	---	---	13.0	12.6	12.9	13.3	13.0	13.2
24	10.5	9.6	10.0	---	---	---	12.6	12.5	12.5	13.7	13.1	13.3
25	10.6	9.5	10.0	11.8	10.9	11.3	12.5	12.3	12.4	13.6	13.2	13.4
26	10.1	9.1	9.6	11.8	8.5	11.5	12.9	12.1	12.5	13.2	12.8	13.1
27	9.6	8.8	9.2	11.6	11.4	11.6	12.5	12.2	12.3	13.1	12.6	12.9
28	9.9	9.0	9.2	12.0	11.7	11.8	12.8	12.2	12.5	13.1	12.9	13.0
29	9.8	8.9	9.2	12.6	12.0	12.1	12.7	12.4	12.6	13.6	12.8	13.3
30	9.4	8.8	9.1	12.4	12.0	12.1	12.8	12.4	12.5	13.6	13.4	13.5
31	9.8	9.1	9.4	---	---	---	12.8	12.5	12.6	13.6	13.4	13.5
MONTH	10.7	8.8	9.6	12.5	8.5	10.8	17.1	4.6	12.6	14.1	12.3	13.5

CONNECTICUT RIVER BASIN

205

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.5	13.4	13.5	13.8	13.5	13.6	12.2	11.9	12.0	10.4	8.0	9.8
2	13.4	13.2	13.3	13.8	13.5	13.6	12.9	11.9	12.4	10.3	10.0	10.2
3	13.6	13.2	13.4	13.7	13.2	13.4	12.9	12.8	12.8	10.1	9.8	9.9
4	13.6	13.4	13.5	13.5	13.0	13.2	13.0	12.4	12.9	10.0	9.4	9.7
5	13.6	13.4	13.5	13.3	13.1	13.2	13.0	12.3	12.7	9.6	9.1	9.5
6	13.8	13.5	13.7	13.3	12.9	13.1	12.9	12.3	12.7	9.6	9.3	9.4
7	13.6	13.5	13.6	---	---	---	12.3	11.8	12.0	9.8	9.3	9.5
8	13.7	13.3	13.6	---	---	---	11.9	11.4	11.8	9.6	9.1	9.4
9	13.6	13.5	13.6	---	---	---	11.5	11.1	11.3	10.3	8.9	9.8
10	13.6	13.5	13.6	---	---	---	12.4	10.5	11.6	10.8	9.5	10.2
11	13.7	13.5	13.6	---	---	---	12.8	12.2	12.5	10.4	9.2	9.8
12	13.9	13.7	13.8	---	---	---	13.0	12.5	12.7	9.4	8.4	8.8
13	13.8	13.6	13.8	---	---	---	12.7	12.3	12.5	---	---	---
14	14.0	13.8	13.8	---	---	---	12.4	12.1	9.7	---	---	---
15	14.0	13.7	13.8	12.0	11.5	11.7	12.0	11.7	11.8	---	---	---
16	13.9	13.5	13.7	12.1	11.5	11.8	11.6	11.2	11.4	---	---	---
17	13.9	13.7	13.8	12.4	11.8	12.1	11.5	11.1	11.3	---	---	---
18	13.7	13.5	13.6	12.2	11.6	12.0	11.8	11.2	11.5	---	---	---
19	13.6	13.4	13.5	12.2	11.3	11.8	12.4	11.5	11.9	9.2	8.4	8.8
20	13.7	13.3	13.5	12.0	11.2	11.5	12.2	11.8	12.0	9.2	8.4	8.7
21	13.6	13.2	13.3	13.1	11.1	12.3	12.1	11.7	11.9	9.1	7.9	8.5
22	14.0	13.1	13.3	13.1	12.7	12.9	11.9	11.5	11.7	9.3	7.6	8.5
23	13.6	12.9	13.1	13.1	12.8	12.9	11.8	11.3	11.5	8.7	7.8	8.2
24	13.2	12.7	12.9	12.9	12.2	12.5	11.6	11.1	11.4	8.1	6.9	7.5
25	13.1	12.6	13.0	12.5	11.5	12.2	11.2	10.4	11.0	6.9	6.0	6.6
26	13.4	12.7	13.3	12.3	11.8	12.2	11.0	10.7	10.8	7.6	5.8	7.1
27	13.7	13.5	13.5	12.4	11.9	12.2	10.7	10.0	10.5	---	---	---
28	13.8	13.4	13.5	12.6	12.2	12.3	10.5	9.7	10.1	---	---	---
29	---	---	---	13.0	12.4	12.7	10.5	9.5	10.2	---	---	---
30	---	---	---	12.5	12.0	12.2	9.8	7.8	9.0	---	---	---
31	---	---	---	12.1	11.9	12.1	---	---	---	---	---	---
MONTH	14.0	12.6	13.5	13.8	11.1	12.5	13.0	7.8	11.6	10.8	5.8	9.0
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.2	8.1	8.9	---	---	---	---	---	---	9.2	6.7	7.9
2	9.0	8.1	8.7	---	---	---	---	---	---	8.4	6.8	7.6
3	9.7	8.5	8.6	---	---	---	---	---	---	7.7	6.8	7.3
4	9.7	7.9	8.4	---	---	---	---	---	---	7.2	5.9	6.6
5	8.8	7.9	8.4	---	---	---	---	---	---	6.9	5.0	6.2
6	8.5	8.0	8.3	---	---	---	---	---	---	7.6	5.7	6.6
7	8.6	7.6	8.1	---	---	---	---	---	---	8.0	6.6	7.0
8	9.0	7.8	8.2	---	---	---	---	---	---	7.4	6.3	6.8
9	8.7	7.3	8.0	---	---	---	---	---	---	8.6	7.3	7.9
10	8.8	7.7	8.2	---	---	---	---	---	---	9.1	8.3	8.6
11	8.9	7.8	8.2	---	---	---	---	---	---	9.7	8.3	9.0
12	8.3	7.4	7.7	---	---	---	---	---	---	9.7	8.7	9.2
13	7.9	7.1	7.5	---	---	---	---	---	---	10.1	9.0	9.5
14	---	---	---	---	---	---	---	---	---	10.4	8.9	9.7
15	---	---	---	---	---	---	---	---	---	10.4	9.1	9.8
16	---	---	---	---	---	---	---	---	---	10.1	8.5	9.3
17	---	---	---	---	---	---	---	---	---	9.9	8.4	9.2
18	---	---	---	---	---	---	---	---	---	10.4	9.1	9.6
19	---	---	---	---	---	---	---	---	---	10.0	8.1	8.8
20	---	---	---	---	---	---	---	---	---	10.3	8.7	9.2
21	---	---	---	---	---	---	---	---	---	9.1	7.9	8.4
22	---	---	---	---	---	---	---	---	---	7.9	7.5	7.7
23	---	---	---	---	---	---	---	---	---	8.0	7.2	7.6
24	---	---	---	---	---	---	---	---	---	8.0	7.1	7.5
25	---	---	---	---	---	---	---	---	---	8.1	7.4	7.7
26	---	---	---	---	---	---	---	---	---	8.3	7.9	8.1
27	---	---	---	---	---	---	10.2	9.4	9.9	8.4	8.0	8.3
28	---	---	---	---	---	---	11.1	8.8	9.7	8.7	8.3	8.5
29	---	---	---	---	---	---	9.4	8.0	8.9	8.7	8.2	8.5
30	---	---	---	---	---	---	8.0	7.0	7.5	8.6	7.9	8.3
31	---	---	---	---	---	---	7.4	6.0	6.7	---	---	---
MONTH	9.2	7.1	8.3	---	---	---	11.1	6.0	8.5	10.4	5.0	8.2

01193500 SALMON RIVER NEAR EAST HAMPTON, CT

LOCATION.--Lat 41°33'11", long 72°26'57", Middlesex County, Hydrologic Unit 01080205, on right bank at Old Comstock Bridge, 150 ft (46 m) downstream from New London-Middlesex County line, 300 ft (91 m) upstream from bridge on State Highway 16, 0.6 mi (1.0 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 66.51 ft (20.272 m) National Geodetic Vertical Datum of 1929. Prior to June 23, 1974, at datum 2.99 ft (0.911 m) higher.

REMARKS.--Records good except those for periods of no gage-height record Feb. 23 to Mar. 21, which are fair. Slight regulation at low flow by ponds upstream.

AVERAGE DISCHARGE.--51 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, 1938, 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)
Jan. 4	0630	3,420	96.9	7.81	2.380	Jan. 25	0600	*12,900	365	*12.67	3.862
8	1415	3,030	85.8	7.49	2.283	Feb. 24	1145	1,340	37.9	5.81	1.771
14	0645	2,200	62.3	6.80	2.073	Apr. 27	2100	2,150	60.9	6.65	2.027
21	1745	6,130	174	9.68	2.950						

Minimum discharge, 8.0 ft³/s (0.23 m³/s) Aug. 9, gage height, 2.86 ft (0.872 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	57	161	338	490	740	170	373	183	52	11	34
2	38	50	118	774	400	750	172	304	159	55	11	27
3	27	47	102	1260	320	780	305	272	144	50	11	24
4	25	44	153	1270	275	810	266	362	164	38	13	28
5	24	42	238	736	240	850	257	295	170	33	16	24
6	220	41	171	508	200	2400	212	246	219	29	16	102
7	176	40	127	392	175	2900	171	222	167	26	12	182
8	97	38	117	2250	165	950	151	208	133	26	12	96
9	66	38	428	1190	152	690	208	197	123	25	10	58
10	53	36	529	766	145	740	371	180	109	23	17	39
11	45	35	310	600	138	1400	268	167	96	23	51	30
12	39	35	196	500	132	800	201	150	83	22	309	23
13	35	33	189	530	128	570	171	174	73	22	656	21
14	77	32	163	1730	120	500	219	215	66	18	277	20
15	109	33	147	1020	105	450	292	295	62	16	122	35
16	73	34	143	633	95	390	313	226	58	17	73	32
17	58	34	151	360	89	340	273	174	60	16	54	25
18	50	126	170	330	86	315	216	153	123	14	45	22
19	46	123	130	288	81	295	178	150	161	15	67	20
20	52	89	110	300	78	280	158	144	98	14	63	17
21	50	77	236	3260	72	250	147	136	69	12	49	18
22	47	62	216	2540	120	241	139	123	56	12	39	422
23	47	57	172	892	110	229	135	174	52	10	34	320
24	41	45	144	717	850	217	125	685	47	10	30	157
25	37	45	220	6070	1200	237	120	951	41	11	30	111
26	37	70	195	1850	950	225	122	665	39	11	38	69
27	118	63	175	1270	770	188	1310	367	37	37	31	60
28	119	79	194	980	730	171	1350	290	34	42	27	52
29	85	71	212	839	---	173	705	300	34	23	23	52
30	71	164	197	685	---	179	483	254	33	17	29	53
31	63	---	171	594	---	176	---	226	---	13	28	---
TOTAL	2047	1830	5985	35478	8416	19236	9208	8678	2893	732	2204	2173
MEAN	66.0	61.0	193	1144	301	621	307	280	96.4	23.6	71.1	72.4
MAX	220	164	529	6070	1200	2900	1350	951	219	55	656	422
MIN	22	32	102	268	72	171	120	123	33	10	10	17
CFSM	.65	.60	1.89	11.2	2.95	6.09	3.01	2.75	.95	.23	.70	.71
IN.	.75	.67	2.18	12.94	3.07	7.02	3.36	3.16	1.06	.27	.80	.79

CAL YR 1978	TOTAL	75118.0	MEAN 206	MAX 4770	MIN 7.0	CFSM 2.02	IN 27.40
WTR YR 1979	TOTAL	98880.0	MEAN 271	MAX 6070	MIN 10	CFSM 2.66	IN 36.06

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 September 1979 are due to malfunctions of the instrument and vandalism.

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, 140 micromhos October 23-24; minimum recorded, 35 micromhos January 25.

WATER TEMPERATURES: Maximum recorded, 17.0°C Oct. 2; minimum recorded, 0.0°C on several days during the winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
24...	1015	41	124	6.4	7.0	8.0	30	2.0	12.0	101	190	16
NOV												
15...	1030	34	114	7.1	15.0	9.0	35	1.0	13.0	112	200	40
DEC												
20...	1000	405	122	7.2	-2.0	2.0	10	1.0	14.2	102	330	32
JAN												
16...	1145	495	149	6.7	2.0	.0	5	1.0	14.8	101	84	22
FEB												
09...	1310	*152	97	6.7	<-5.0	.5	5	2.0	14.7	102	K2	K2
MAR												
16...	1130	373	75	6.2	.0	.5	10	1.0	14.3	99	18	K2
APR												
09...	1305	181	85	6.8	2.0	4.0	15	4.0	12.6	95	600	16
MAY												
16...	1300	227	70	5.9	21.5	18.0	30	2.0	10.0	105	760	64
JUN												
19...	1000	180	80	6.5	21.0	19.0	30	3.0	8.4	90	16000	240
JUL												
24...	1015	11	86	7.6	26.0	23.0	5	5.0	8.7	100	180	73
AUG												
20...	1130	62	104	7.5	22.5	18.0	20	1.0	10.0	105	470	57
SEP												
25...	1000	96	96	6.9	14.5	12.0	45	1.0	11.0	102	730	100

DATE	STREP- TOCOCCL 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
24...	34	--	--	--	--	--	--	--	16	--	71	.10
NOV												
15...	K15	--	--	--	--	--	--	--	16	--	84	.11
DEC												
20...	70	24	13	6.2	2.0	11	--	13	14	9.8	70	.10
JAN												
16...	30	--	--	--	--	--	--	--	9.9	--	52	.07
FEB												
09...	K1	--	--	--	--	--	--	--	10	--	56	.08
MAR												
16...	K6	15	9	4.2	1.2	6	--	10	11	7.4	57	.08
APR												
09...	460	--	--	--	--	--	--	--	13	--	53	.07
MAY												
16...	K12	17	1	4.8	1.3	16	--	8.8	9.4	7.8	54	.07
JUN												
19...	1100	--	--	--	--	--	--	--	10	--	65	.09
JUL												
24...	30	--	--	--	--	--	--	--	16	--	69	.09
AUG												
20...	58	25	11	7.0	1.8	14	.9	18	12	8.0	79	.11
SEP												
25...	210	--	--	--	--	--	--	--	13	--	83	.11

* MEAN DAILY DISCHARGE

< 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

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	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 24...	7.99	72	48	--	--	.06	.00	--	.13	.13	.19
NOV 15...	7.71	--	75	--	--	.14	.00	--	.19	.19	.33
DEC 20...	76.5	--	70	--	--	.33	.01	--	.14	.15	.48
JAN 16...	69.5	--	59	--	--	.33	.00	--	.00	.00	.33
FEB 09...	23.0	--	54	--	--	.36	.01	--	.06	.07	.43
MAR 16...	57.3	--	58	--	--	.31	.01	--	.10	.11	.42
APR 09...	25.9	--	59	--	--	.29	.04	--	.08	.12	.41
MAY 16...	33.1	--	52	--	--	.18	.00	.00	.24	.24	.42
JUN 19...	31.6	--	65	--	--	.34	.01	.01	.38	.39	.73
JUL 24...	2.05	--	73	--	--	.18	.04	.05	.11	.15	.33
AUG 20...	13.3	--	98	--	--	.22	.01	.01	.24	.25	.47
SEP 25...	21.5	--	79	.08	.00	.08	.01	.01	.66	.67	.75

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)	MFTHY- LENE FLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOPOM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 24...	.84	.01	--	1	--	--	10	5.2	--	--	--
NOV 15...	1.5	.00	--	1	--	--	10	5.3	--	--	--
DEC 20...	2.1	.00	--	0	90	30	0	4.7	.00	.000	.000
JAN 16...	1.5	.01	--	1	--	--	0	2.7	--	--	--
FEB 09...	1.9	.00	--	0	--	--	10	2.2	--	--	--
MAR 16...	1.9	.01	--	0	50	20	10	2.1	.00	.000	.000
APR 09...	1.8	.01	--	1	--	--	20	6.8	--	--	--
MAY 16...	1.9	.21	.64	1	250	10	0	4.8	.00	.000	.000
JUN 19...	3.2	.03	.09	6	--	--	10	8.6	--	--	--
JUL 24...	1.5	.01	.03	1	--	--	10	6.7	--	--	--
AUG 20...	2.1	.01	.03	3	150	5	7	6.8	.00	.000	.000
SEP 25...	3.3	.02	.06	2	--	--	0	5.8	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

CONNECTICUT RIVER BASIN

211

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 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
18...	0750	5.0	158	7.1	-1.0	12.0	15	4.0	9.8	91	1300	120
NOV												
09...	0815	5.0	158	7.2	8.0	10.0	30	4.0	10.8	96	220	48
DEC												
15...	0855	5.0	157	7.1	2.0	2.5	10	4.0	14.0	102	30000	2000
JAN												
12...	0915	5.0	88	7.1	<-5.0	.5	20	7.0	12.7	89	4200	980
FEB												
09...	0900	5.0	124	6.7	<-5.0	.5	10	3.0	13.6	94	1000	380
MAR												
14...	0945	5.0	85	7.3	13.5	2.0	15	10	14.4	103	4300	800
APR												
10...	1510	5.0	98	6.5	8.5	6.0	15	5.0	12.6	101	26000	3000
MAY												
11...	0745	5.0	97	7.6	23.0	19.0	5	3.0	8.3	89	1300	48
JUN												
14...	0815	5.0	112	6.6	18.0	18.0	5	10	9.0	95	2300	40
JUL												
17...	0820	5.0	146	6.8	29.0	27.0	5	5.0	7.0	85	5400	K7
AUG												
07...	0845	5.0	137	6.8	23.5	28.0	10	6.0	7.1	90	88	63
SEP												
18...	0820	5.0	118	7.4	22.0	21.0	14	2.0	8.4	93	2700	100

DATE	STREP- TOCOCI 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
18...	K4	--	--	--	--	--	--	--	15	--	90	.12
NOV												
09...	K3	--	--	--	--	--	--	--	12	--	93	.13
DEC												
15...	380	42	13	13	2.3	29	--	14	16	5.5	89	.12
JAN												
12...	260	--	--	--	--	--	--	--	11	--	68	.09
FEB												
09...	84	--	--	--	--	--	--	--	13	--	82	.11
MAR												
14...	420	23	4	6.9	1.3	19	--	9.8	11	5.0	56	.08
APR												
10...	480	--	--	--	--	--	--	--	8.4	--	59	.08
MAY												
11...	K7	32	15	9.9	1.8	17	--	9.7	8.9	5.2	62	.08
JUN												
14...	K8	--	--	--	--	--	--	--	9.6	--	58	.08
JUL												
17...	K2	--	--	--	--	--	--	--	14	--	98	.13
AUG												
07...	K2	44	16	14	2.3	28	8.7	15	18	2.1	97	.13
SEP												
18...	K4	--	--	--	--	--	--	--	12	--	81	.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)

CONNECTICUT RIVER BASIN

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 18...	112	--	--	.52	.14	--	.48	.62	1.1	5.0
NOV 09...	97	--	--	.40	.21	--	.41	.62	1.0	4.5
DEC 15...	89	--	--	.58	.24	--	.30	.54	1.1	5.0
JAN 12...	70	--	--	.45	.13	--	.43	.56	1.0	4.5
FEB 09...	86	--	--	.51	.24	--	.32	.56	1.1	4.7
MAR 14...	99	--	--	.37	.08	--	.44	.52	.89	3.9
APR 10...	67	--	--	.32	.07	--	.27	.34	.66	2.9
MAY 11...	74	--	--	.32	.11	.13	.21	.32	.64	2.8
JUN 14...	109	--	--	.38	.12	.15	.48	.60	.98	4.3
JUL 17...	247	--	--	.24	.18	.22	.51	.69	.93	4.1
AUG 07...	109	--	--	.39	.12	.15	.38	.50	.89	3.9
SEP 18...	96	.37	.01	.38	.09	.11	.59	.68	1.1	4.7
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 18...	.14	--	5	--	--	10	5.7	.00	--	--
NOV 09...	.11	--	3	--	--	10	5.8	--	--	--
DEC 15...	.14	--	0	170	40	10	4.6	.10	.330	.000
JAN 12...	.07	--	5	--	--	20	3.7	--	--	--
FEB 09...	.07	--	3	--	--	10	4.8	--	--	--
MAR 14...	.09	--	3	90	20	0	4.4	.00	.000	.000
APR 10...	.06	--	4	--	--	20	4.8	--	--	--
MAY 11...	.05	.15	3	120	30	10	5.9	.00	6.88	.000
JUN 14...	.07	.21	6	--	--	10	6.3	--	--	--
JUL 17...	.12	.37	7	--	--	10	8.7	--	--	--
AUG 07...	.16	.49	5	20	2	3	6.1	.00	26.8	.000
SEP 18...	.12	.37	5	--	--	0	8.0	--	--	--

CONNECTICUT RIVER BASIN

213

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, except for those of no gage-height record July 10 to Sept. 11, which are fair.

AVERAGE DISCHARGE.--42 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 1.03 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) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 3	0700	548	15.5	Jan. 25	1300	1,040	29.5
8	1400	723	20.5	Feb. 26	2030	636	18.0
14	Time about	about	4.78 1.457	Mar. 7	0400	751	21.3
	unknown	600	17.0	Apr. 27	2130	408	11.6
21	Time *2260	64.0	*8.81 2.685				
	unknown						

Minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	25	64	73	102	112	36	80	54	12	2.7	7.5
2	15	23	46	192	89	98	37	67	46	12	2.4	6.0
3	12	23	38	447	73	90	75	60	43	10	2.2	5.8
4	10	22	53	170	66	87	65	77	53	8.8	3.0	6.5
5	9.5	21	83	104	58	83	58	68	61	8.3	3.6	5.2
6	9.5	21	67	84	50	226	51	55	59	7.4	3.6	15
7	79	20	49	84	42	674	41	50	46	6.7	2.8	60
8	38	20	43	450	37	300	36	46	37	6.3	2.8	35
9	27	19	122	300	35	190	44	43	34	6.1	2.4	25
10	23	19	242	150	33	155	68	40	32	5.5	5.0	15
11	20	18	118	110	31	171	57	35	28	5.3	10	10
12	19	18	79	100	30	138	43	32	25	5.2	60	7.1
13	17	17	70	95	29	110	37	38	22	5.0	200	6.4
14	39	17	70	500	27	101	42	50	20	4.5	80	6.9
15	75	17	60	200	26	98	62	73	18	4.0	40	8.5
16	43	18	55	120	26	79	63	59	17	3.6	20	8.1
17	31	18	58	110	25	73	59	43	16	3.4	13	6.9
18	27	41	56	100	24	68	48	35	15	3.2	11	6.3
19	24	55	47	98	23	63	41	34	16	3.4	15	5.8
20	23	35	41	95	23	59	36	32	16	3.2	13	5.3
21	23	29	70	1400	23	55	34	31	13	2.8	11	5.3
22	21	26	77	600	35	53	33	28	12	2.7	9.5	74
23	20	25	55	217	30	50	32	42	11	2.4	8.0	79
24	19	34	46	196	146	46	31	263	10	2.3	7.0	35
25	19	40	92	793	243	46	30	282	9.3	2.5	7.5	23
26	19	31	111	487	340	45	30	225	8.8	2.5	8.5	17
27	53	26	72	297	340	40	223	124	8.3	3.5	7.0	14
28	55	31	52	210	140	36	287	89	8.1	5.5	6.0	12
29	36	35	45	167	---	36	149	84	7.8	5.0	5.5	12
30	24	56	40	139	---	37	108	72	8.3	4.5	7.0	12
31	27	---	43	119	---	36	---	64	---	3.5	6.5	---
TOTAL	957.5	870	2164	8207	2146	3455	1956	2321	754.6	161.1	576.0	536.1
MEAN	30.9	26.7	69.8	265	76.6	111	65.2	74.9	25.2	5.20	18.6	17.9
MAX	95	56	242	1400	340	674	287	282	61	12	200	79
MIN	4.5	17	38	73	23	36	30	28	7.8	2.3	2.2	5.2
CFSM	1.39	1.20	3.13	11.9	3.44	4.98	2.92	3.36	1.13	.23	.83	.80
IN.	1.60	1.33	3.61	13.69	3.58	5.76	3.26	3.87	1.26	.27	.96	.89

CAL YP 1978 TOTAL 21093.1 MEAN 57.8 MAX 1050 MIN 5.3 CFSM 2.59 IN 35.19
WTR YP 1979 TOTAL 24034.3 MEAN 65.8 MAX 1400 MIN 2.2 CFSM 2.95 IN 40.09

CONNECTICUT RIVER BASIN

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 Highland, 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.

CONNECTICUT RIVER BASIN

RESERVOIRS IN CONNECTICUT RIVER BASIN--Continued

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	01185000 OTIS RESERVOIR	01185850 COLEBROOK RIVER LAKE	01185900 WEST BRANCH RESERVOIR	01186090 MAD RIVER DETENTION RESERVOIR	01186150 SUCKER BROOK RESERVOIR
Sept. 30, 1978.....	691.8	255	271	8.4	0
Oct. 31.....	564.0	167	197	8.5	0
Nov. 30.....	361.2	108	147	8.6	.04
Dec. 31.....	367.4	125	120	8.5	.04
Jan. 31, 1979.....	340.0	898	353	8.8	.04
Feb. 28.....	370.5	828	377	8.8	.04
Mar. 31.....	451.3	2263	377	8.8	.13
Apr. 30.....	589.7	2475	409	9.0	.09
May 31.....	699.5	2804	409	10.8	.04
June 30.....	695.7	2192	409	8.4	.04
July 31.....	703.3	1697	409	8.6	.22
Aug. 31.....	699.5	878	409	8.6	.04
Sept. 30.....	699.5	524	409	8.8	.26

Date	01186160 HIGHLAND LAKE	01187500 BARKHAMSTED RESERVOIR	01187600 EAST BRANCH RESERVOIR	01187900 NEPAUG RESERVOIR	01188500 WHIGVILLE RESERVOIR
Sept. 30, 1978.....	82.9	3544	201	956	2.2
Oct. 31.....	51.0	3462	118	860	1.6
Nov. 30.....	48.6	3072	59	802	1.8
Dec. 31.....	91.1	3055	91	787	2.2
Jan. 31, 1979.....	80.2	3699	202	1170	5.1
Feb. 28.....	141.3	3814	242	1220	5.1
Mar. 31.....	135.0	4053	377	1270	5.1
Apr. 30.....	144.4	4053	393	1270	5.1
May 31.....	137.4	4053	393	1270	5.1
June 30.....	101.8	3980	393	1200	2.7
July 31.....	103.0	3860	386	1070	4.1
Aug. 31.....	103.7	3786	372	1020	2.5
Sept. 30.....	111.1	3751	213	980	3.8

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.--18 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.

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)	
Dec. 10	0600	95	2.69	2.97	0.091	Jan. 25	1330	336	9.52	5.11	0.156
Jan. 3	1000	115	3.26	3.07	.094	Feb. 26	1900	204	5.78	3.98	.121
8	2130	150	4.25	3.47	.106	Mar. 7	0730	249	7.05	4.39	.134
14	1500	103	2.92	3.05	.093	May 24	1500	137	3.86	3.36	.102
21	2130	*464	13.1	*6.27	.191						

Minimum discharge, no flow Aug. 9, regulated.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.8	15	14	21	37	11	13	12	4.7	.03	1.0
2	4.7	3.7	11	32	20	33	12	11	9.8	4.2	.03	.55
3	3.4	3.5	4.6	40	18	30	17	11	9.8	3.0	.03	1.0
4	2.4	3.5	11	38	17	28	14	12	2.5	.32	.72	
5	2.1	3.5	17	19	14	27	15	14	13	2.5	.72	.42
6	14	3.4	17	16	13	51	13	11	12	2.2	.14	2.3
7	24	3.4	12	15	12	147	11	9.8	9.6	1.8	.06	2.7
8	10	3.5	11	43	10	86	9.6	9.2	7.8	1.5	.03	1.5
9	5.7	4.4	34	41	8.4	50	11	8.8	7.5	1.3	.00	1.1
10	4.1	3.4	43	35	7.8	36	18	8.2	6.8	1.2	.05	.55
11	3.6	3.3	41	24	7.4	45	15	7.5	6.0	1.4	.25	.32
12	3.3	3.2	19	20	7.0	46	12	6.4	5.3	1.3	3.8	.14
13	3.1	3.1	15	19	6.8	30	10	8.8	4.5	1.0	12	.14
14	5.1	3.1	15	107	6.4	27	11	12	4.0	.72	8.4	.14
15	4.4	3.1	14	59	6.2	26	19	17	3.7	.72	3.3	.32
16	8.6	3.5	12	29	6.0	21	17	13	3.5	.93	2.2	.14
17	6.4	3.8	13	22	5.8	20	16	9.0	3.3	.72	1.4	.08
18	5.4	7.8	13	20	5.6	19	14	7.8	4.0	.42	1.3	.06
19	5.1	10	11	19	5.4	18	12	8.0	6.4	.55	2.5	.05
20	4.9	8.0	10	22	5.4	17	11	7.8	4.7	.25	3.0	.03
21	4.7	6.3	15	257	5.4	16	9.8	6.9	3.4	.14	2.3	.14
22	4.6	5.5	20	259	10	15	9.4	5.8	2.9	.11	1.7	20
23	4.6	5.1	14	75	8.0	15	9.0	8.0	2.8	.08	1.1	20
24	4.9	6.8	12	51	11	14	8.4	98	2.6	.04	.93	6.9
25	4.7	9.0	38	262	90	14	8.2	90	2.4	.08	.93	3.4
26	4.9	7.8	54	132	141	14	9.0	72	2.2	.06	.72	2.6
27	11	6.3	27	76	104	12	33	28	2.2	.25	.42	2.2
28	14	7.3	15	54	46	12	55	17	2.1	.14	1.3	1.9
29	9.8	8.2	12	43	---	12	26	16	2.1	.06	1.4	1.7
30	6.6	12	11	33	---	12	16	15	2.3	.05	2.5	2.5
31	5.0	---	11	26	---	11	---	15	---	.03	1.9	---
TOTAL	202.7	158.3	612.6	2042	622.6	991	455.4	579.0	170.7	33.99	54.76	74.60
MEAN	6.54	5.28	19.8	65.9	22.2	32.0	15.2	18.7	5.69	1.10	1.77	2.49
MAX	24	12	43	262	141	197	55	98	13	4.7	12	20
MIN	2.1	3.1	4.6	14	5.4	11	8.2	5.8	2.1	.03	.00	.03
CFSM	1.00	.81	3.02	10.1	3.39	4.89	2.32	2.86	.87	.17	.27	.38
IN	1.15	.90	3.48	11.60	3.54	5.63	2.59	3.29	.97	.19	.31	.42

CAL YR 1978 TOTAL 5144.83 MEAN 14.1 MAX 466 MIN .52 CFSM 2.15 IN 29.22
WTR YR 1979 TOTAL 5997.65 MEAN 16.4 MAX 262 MIN .00 CFSM 2.50 IN 34.06

QUINNIPIAC RIVER BASIN

217

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORALT 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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
18...	1440	40	305	7.2	15.5	10.5	40	3.0	7.3	65	100000	31000
NOV												
09...	1420	60	355	7.1	17.5	10.0	30	4.0	7.0	62	250000	20000
DEC												
15...	1430	132	315	7.2	5.5	3.0	10	4.0	12.1	90	42000	12000
JAN												
11...	1500	215	210	7.0	<-5.0	1.0	10	3.0	12.9	91	25000	2600
FEB												
06...	1200	145	265	6.7	<-5.0	.5	5	2.0	13.1	91	30000	8500
MAR												
12...	1515	420	163	7.3	2.5	4.0	20	5.0	12.4	95	17000	4600
APR												
10...	1200	340	190	6.3	8.5	5.0	15	3.0	12.0	94	20000	4200
MAY												
11...	1520	110	225	6.9	25.0	21.5	10	4.0	8.9	100	840	52
JUN												
14...	1450	--	265	6.8	25.0	17.0	5	4.0	7.0	72	4700	80
JUL												
17...	1515	46	290	6.8	29.5	24.0	5	4.0	2.7	32	10000	820
AUG												
07...	1540	49	243	6.8	26.0	21.0	12	7.0	3.8	42	17000	560
SEP												
18...	1500	--	305	7.4	24.5	17.0	7	4.0	7.0	72	2400	270

DATE	STREP- TOCOC- 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- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
18...	7000	--	--	--	--	--	--	--	28	--	190	.26
NOV												
09...	380	--	--	--	--	--	--	--	27	--	201	.27
DEC												
15...	1300	85	28	27	4.3	57	--	28	26	13	171	.23
JAN												
11...	960	--	--	--	--	--	--	--	20	--	113	.15
FEB												
06...	900	--	--	--	--	--	--	--	20	--	141	.19
MAR												
12...	4100	42	16	13	2.4	26	--	14	14	8.0	86	.12
APR												
10...	720	--	--	--	--	--	--	--	17	--	108	.15
MAY												
11...	88	81	29	26	3.9	52	--	17	18	9.2	134	.18
JUN												
14...	24	--	--	--	--	--	--	--	22	--	170	.23
JUL												
17...	52	--	--	--	--	--	--	--	26	--	149	.20
AUG												
07...	110	81	22	26	4.0	59	14	20	20	12	173	.24
SEP												
18...	120	--	--	--	--	--	--	--	26	--	185	.25

< 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)

QUINNIPIAC RIVER

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 N03)
OCT 18...	20.5	201	--	--	2.2	1.5	--	.50	2.0	4.2	19
NOV 09...	32.6	203	--	--	2.3	2.4	--	.20	2.6	4.9	22
DEC 15...	60.9	176	--	--	1.9	.60	--	.50	1.1	3.0	13
JAN 11...	65.6	131	--	--	1.1	.36	--	.84	1.2	2.3	10
FEB 06...	55.2	156	--	--	1.5	.84	--	.16	1.0	2.5	11
MAR 12...	97.5	101	--	--	.76	.26	--	.34	.60	1.4	6.0
APR 10...	99.1	122	--	--	.79	.27	--	.35	.62	1.4	6.2
MAY 11...	39.8	152	--	--	1.1	.39	.47	.41	.80	1.9	8.4
JUN 14...	--	204	--	--	1.9	.73	.88	.67	1.4	3.3	15
JUL 17...	18.5	213	--	--	1.7	1.7	2.1	.70	2.4	4.1	18
AUG 07...	22.9	174	--	--	1.7	.79	.96	.71	1.5	3.2	14
SEP 18...	--	218	1.4	.10	1.5	1.4	2.2	.80	2.6	4.1	18

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 18...	1.4	--	8	--	--	30	5.0	.20	--	--
NOV 09...	1.8	--	8	--	--	30	6.0	--	--	--
DEC 15...	1.2	--	7	170	130	40	4.4	.10	.000	.000
JAN 11...	.43	--	5	--	--	30	3.6	--	--	--
FEB 06...	.76	--	3	--	--	50	5.3	--	--	--
MAR 12...	.10	--	4	90	40	10	5.6	.00	.000	.000
APR 10...	.33	--	6	--	--	20	6.0	--	--	--
MAY 11...	.36	1.1	7	110	90	20	8.0	.00	6.60	.000
JUN 14...	1.1	3.4	14	--	--	50	4.4	--	--	--
JUL 17...	.85	2.6	7	--	--	20	7.0	--	--	--
AUG 07...	.73	2.2	8	120	240	30	7.0	.20	7.92	.000
SEP 18...	1.1	3.4	7	--	--	10	5.7	--	--	--

QUINNIPIAC RIVER BASIN

219

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 (see station 01195800), Broad Brook Reservoir (see station 01196225), Bradley Hubbard Reservoir (see station 01196240), 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).--49 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)
Jan. 3	0200	1380 39.1	6.95 2.118	Feb. 26	1230	1860 52.7	8.11 2.472
8	1330	1960 55.5	8.32 2.536	Mar. 7	0830	3140 88.9	10.17 3.100
14	0600	1210 34.3	6.50 1.981	11	1330	1220 34.6	6.54 1.993
21	1600	3020 85.5	10.00 3.048	Apr. 28	0630	2110 59.8	8.59 2.618
25	1500	*5580 158	*12.93 3.941	May 25	0900	1010 28.6	5.83 1.777

Minimum discharge, 22 ft³/s (0.623 m³/s) June 27, gage height, 0.60 ft (0.183 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	94	190	306	414	472	327	520	349	143	77	88
2	107	91	155	713	352	408	325	430	322	129	74	83
3	90	90	132	1130	327	341	401	419	307	115	67	131
4	83	88	187	633	316	350	392	442	316	105	74	254
5	94	87	259	366	283	350	380	407	327	99	177	101
6	366	86	215	273	240	1770	363	380	318	96	115	167
7	242	88	170	308	264	2800	329	366	292	92	90	243
8	154	86	159	1660	260	1540	294	374	249	89	83	146
9	121	86	403	1420	256	835	349	363	214	86	81	111
10	110	85	488	684	238	697	494	333	209	85	86	98
11	104	85	311	452	228	1090	423	318	202	83	147	93
12	101	82	230	333	223	957	361	313	207	82	388	88
13	98	80	206	291	219	648	331	401	207	79	505	83
14	120	73	201	960	211	562	372	431	200	75	273	87
15	114	84	187	669	209	539	448	415	211	76	152	105
16	101	83	174	399	199	469	433	355	200	72	124	90
17	96	94	179	317	188	440	413	325	192	88	224	81
18	91	253	176	245	180	411	372	298	218	250	73	78
19	93	200	165	257	173	409	338	281	179	139	75	71
20	100	140	155	262	176	376	320	277	154	102	170	72
21	98	115	240	1840	193	388	300	269	149	89	155	88
22	93	107	250	2080	263	372	279	269	147	81	139	467
23	91	98	198	1120	324	359	237	359	146	152	115	384
24	83	153	169	695	798	351	227	750	143	140	106	143
25	86	141	256	4100	1060	392	222	833	141	100	121	132
26	90	116	257	2220	1290	392	249	759	138	103	109	116
27	161	100	206	1340	828	349	1470	525	98	104	95	109
28	149	97	181	845	526	346	1820	433	99	101	93	102
29	114	100	159	652	---	342	923	490	96	94	93	100
30	99	196	154	518	---	327	679	454	100	86	102	103
31	96	---	150	457	---	325	---	403	---	97	97	---
TOTAL	3644	3278	6562	27595	10238	19407	13871	12992	6130	3232	4280	4054
MEAN	118	109	212	890	366	626	462	419	204	104	138	135
MAX	366	253	488	4100	1290	2800	1820	833	349	250	505	467
MIN	83	73	132	257	173	325	222	269	96	72	67	71
(†)	+5.8	+0.6	-1.7	+16.5	-5.5	-2.1	+7.1	-0.7	-10.0	-8.3	+0.6	-6.1
MEAN ‡	124	110	214	906	360	624	469	418	194	95.7	139	129
CFSM ‡	1.13	1.00	1.94	8.24	3.27	5.67	4.26	3.80	1.76	0.87	1.26	1.17
IN ‡	1.30	1.12	2.24	9.50	3.41	6.54	4.75	4.38	1.96	1.00	1.45	1.30

CAL YP 1978 TOTAL 97018 MEAN 266 MAX 2800 MIN 40 MEAN ‡ 264 CFSM ‡ 2.40 IN ‡ 32.61
WTR YP 1979 TOTAL 115283 MEAN 316 MAX 4100 MIN 67 MEAN ‡ 316 CFSM ‡ 2.87 IN ‡ 38.95

† 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.

QUINNIPIAC RIVER BASIN

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREACH- FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROHMS)	pH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM- COHALT UNITS)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS. PER 100 ML)
OCT												
14...	1345	91	360	7.4	14.0	11.0	20	4.0	9.3	84	14000	3800
NOV												
09...	1320	44	405	7.2	15.0	11.0	35	6.0	10.1	91	32000	4500
DEC												
15...	1330	185	365	7.2	5.0	2.5	20	7.0	13.0	95	68000	18000
JAN												
12...	1400	372	265	6.9	-4.0	1.0	10	5.0	14.4	100	26000	16000
FEB												
06...	1040	249	310	6.8	-5.0	.5	10	8.0	13.9	96	47000	28000
MAR												
12...	1340	930	185	7.2	2.5	3.5	20	6.0	13.6	103	34000	17000
APR												
10...	1030	440	255	6.5	6.0	6.0	10	2.0	12.1	97	68000	9000
MAY												
11...	1350	312	270	6.9	24.0	22.0	10	7.0	8.6	98	2300	170
JUN												
14...	1430	220	292	6.8	25.0	20.5	5	5.0	7.7	85	3600	420
JUL												
17...	1400	75	300	6.9	31.0	27.0	5	8.0	6.3	77	2200	210
AUG												
07...	1425	88	246	6.9	27.5	25.0	20	9.0	7.0	83	4300	1000
SEP												
18...	1320	78	340	7.5	25.5	20.0	10	5.0	6.6	72	2300	960

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)	HARDNESS NONCARBONATE (MG/L AS CaCO3)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM DISSOLVED (MG/L AS Mg)	ALKALINITY (MG/L AS CaCO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT												
18...	46	--	--	--	--	--	--	--	30	--	204	.28
NOV												
09...	56	--	--	--	--	--	--	--	32	--	219	.30
DEC												
15...	3300	22	30	28	5.4	62	--	26	33	12	181	.25
JAN												
12...	2300	--	--	--	--	--	--	--	24	--	139	.19
FEB												
06...	3600	--	--	--	--	--	--	--	26	--	174	.24
MAR												
12...	9600	49	20	15	2.8	29	--	16	17	8.2	97	.13
APR												
10...	1800	--	--	--	--	--	--	--	23	--	142	.19
MAY												
11...	813	90	32	28	4.8	58	--	22	22	8.8	163	.22
JUN												
14...	92	--	--	--	--	--	--	--	26	--	180	.24
JUL												
17...	24	--	--	--	--	--	--	--	28	--	215	.29
AUG												
07...	150	75	23	23	4.2	52	13	23	23	9.6	159	.22
SEP												
18...	110	--	--	--	--	--	--	--	30	--	215	.29

< 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)

QUINNIPIAC RIVER BASIN

221

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 18...	50.1	216	--	--	2.2	1.6	--	.70	2.3	4.5	20
NOV 09...	49.7	235	--	--	2.1	2.1	--	.90	3.0	5.1	23
DEC 15...	90.4	186	--	--	1.6	1.6	--	.70	2.3	3.9	17
JAN 12...	140	148	--	--	1.3	.61	--	.49	1.1	2.4	11
FEB 06...	117	202	--	--	1.5	1.4	--	.80	2.2	3.7	16
MAR 12...	244	149	--	--	.92	.35	--	.65	1.0	1.9	8.5
APR 10...	169	168	--	--	1.2	.65	--	3.3	3.9	5.1	23
MAY 11...	137	182	--	--	1.3	.53	.64	.57	1.1	2.4	11
JUN 14...	107	227	--	--	2.1	.65	.79	.65	1.3	3.4	15
JUL 17...	43.9	125	--	--	1.3	1.8	2.2	1.1	2.9	4.2	19
AUG 07...	37.8	201	--	--	1.5	.81	.98	1.2	2.0	3.5	16
SEP 18...	45.3	240	2.3	.20	2.5	1.8	2.2	.50	2.3	4.8	21

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 SUR- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 18...	1.1	--	17	--	--	20	6.8	.30	--	--
NOV 09...	.97	--	10	--	--	20	7.2	--	--	--
DEC 15...	.61	--	23	220	190	30	5.1	.20	.000	.000
JAN 12...	.34	--	14	--	--	30	3.6	--	--	--
FEB 06...	.41	--	9	--	--	20	5.0	--	--	--
MAR 12...	.20	--	5	150	90	20	5.5	.10	.530	.000
APR 10...	.33	--	11	--	--	30	6.6	--	--	--
MAY 11...	.44	1.4	11	70	160	20	14	.10	12.5	.000
JUN 14...	.61	1.9	13	--	--	20	6.2	--	--	--
JUL 17...	.96	2.9	8	--	--	10	7.5	--	--	--
AUG 07...	.76	2.3	14	170	310	20	12	.20	36.6	6.66
SEP 18...	.99	3.0	16	--	--	10	8.5	--	--	--

QUINNIPIAC RIVER BASIN

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 1978 TO SEPTEMBER 1979

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
18...	1120	390	7.1	9.0	10.5	20	4.0	8.3	74	32000	30000	640
NOV												
09...	1150	430	7.3	14.0	12.0	40	6.0	8.6	80	--	29000	2400
DEC												
18...	1415	385	7.2	1.5	3.0	15	6.0	13.0	96	58000	8000	500
JAN												
12...	1310	270	7.1	-5.0	1.0	10	8.0	12.8	89	30000	18000	2600
FEB												
06...	0910	310	6.9	<-5.0	1.5	10	20	10.2	73	51000	48000	5200
MAR												
12...	1235	175	7.2	1.0	4.0	20	9.0	11.8	90	32000	7000	3100
APR												
10...	0850	270	6.5	5.0	6.0	10	4.0	9.7	78	110000	20000	2100
MAY												
11...	1210	290	7.1	25.0	21.0	10	8.0	5.1	57	--	300	28
JUN												
14...	1230	325	6.8	23.0	19.0	5	10	4.7	51	72000	1700	170
JUL												
17...	1245	380	6.9	30.0	26.0	10	10	2.2	27	5800	390	28
AUG												
07...	1315	268	6.8	27.5	23.5	17	8.0	3.8	44	18000	1200	130
SEP												
18...	1215	385	7.4	24.5	19.0	12	3.0	3.5	38	20000	3100	76

DATE	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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											
18...	--	--	--	--	--	--	--	34	--	235	.32
NOV											
09...	--	--	--	--	--	--	--	35	--	252	.34
DEC											
18...	110	35	33	6.1	73	--	31	34	3.5	203	.28
JAN											
12...	--	--	--	--	--	--	--	25	--	150	.20
FEB											
06...	--	--	--	--	--	--	--	28	--	183	.25
MAR											
12...	49	20	15	2.8	29	--	16	17	7.9	94	.13
APR											
10...	--	--	--	--	--	--	--	23	--	154	.21
MAY											
11...	93	29	29	5.0	64	--	25	25	9.4	175	.24
JUN											
14...	--	--	--	--	--	--	--	31	--	214	.29
JUL											
17...	--	--	--	--	--	--	--	35	--	258	.35
AUG											
07...	84	26	26	4.7	58	18	26	28	9.7	175	.24
SEP											
18...	--	--	--	--	--	--	--	38	--	259	.35

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

QUINNIPIAC RIVER BASIN

223

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 18...	251	--	--	2.5	2.1	--	2.3	4.4	6.9	31
NOV 09...	266	--	--	2.3	3.0	--	4.9	7.9	10	45
DEC 18...	207	--	--	1.9	1.7	--	2.0	3.7	5.6	25
JAN 12...	161	--	--	1.5	.73	--	1.8	2.5	4.0	18
FEB 06...	192	--	--	1.7	1.9	--	2.6	4.5	6.2	27
MAR 12...	122	--	--	.98	.61	--	.79	1.4	2.4	11
APR 10...	171	--	--	1.3	.98	--	1.6	2.6	3.9	17
MAY 11...	195	--	--	1.4	.91	1.1	2.0	2.9	4.3	19
JUN 14...	328	--	--	2.3	1.4	1.7	5.1	6.5	8.8	39
JUL 17...	308	--	--	2.8	3.9	4.7	6.1	10	13	57
AUG 07...	208	--	--	1.8	1.2	1.5	1.2	2.4	4.2	19
SEP 18...	280	4.4	.24	4.6	2.8	3.4	8.2	11	16	69

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 18...	1.2	--	17	--	--	50	8.1	.20	--	--
NOV 09...	1.5	--	11	--	--	30	15	--	--	--
DEC 18...	.75	--	7	110	200	50	7.8	.10	.000	.000
JAN 12...	.37	--	15	--	--	40	5.3	--	--	--
FEB 06...	.47	--	7	--	--	20	8.7	--	--	--
MAR 12...	.20	--	6	120	80	10	6.2	.10	.000	.000
APR 10...	.46	--	17	--	--	40	9.0	--	--	--
MAY 11...	.56	1.7	12	70	180	10	12	.10	19.7	.000
JUN 14...	.98	3.0	11	--	--	20	12	--	--	--
JUL 17...	1.1	3.4	13	--	--	10	15	--	--	--
AUG 07...	.81	2.5	10	90	240	20	9.9	.10	28.9	.000
SEP 18...	1.1	3.4	7	--	--	10	12	--	--	--

QUINNIPIAC RIVER BASIN

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 1978 TO SEPTEMBER 1979

Date	01195800 WOLCOTT RESERVOIR	01196225 BROAD BROOK RESERVOIR	01196240 BRADLEY HUBBARD RESERVOIR
Sept. 30, 1978.....	8.1	74	22.5
Oct. 31.....	8.1	98	22.5
Nov. 30.....	9.1	106	22.5
Dec. 31.....	8.6	110	22.5
Jan. 31, 1979.....	23.3	147	22.5
Feb. 28.....	23.3	134	22.5
Mar. 31.....	22.7	134	22.5
Apr. 30.....	23.0	134	22.5
May 31.....	22.9	134	20.5
June 30.....	14.2	122	22.5
July 31.....	5.9	116	22.5
Aug. 31.....	15.0	116	22.5
Sept. 30.....	12.1	110	22.5

MILL RIVER BASIN

225

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 1979.

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 CURRENT YEAR.--Maximum discharge, 3,180 ft³/s (90.1 m³/s) Jan. 25, gage height, 5.65 ft (1.722 m); minimum, 3.7 ft³/s (0.105 m³/s) Aug. 8-10, gage height, 1.16 ft (0.354 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	11	28	90	100	81	47	114	57	33	5.9	5.4
2	5.6	9.6	24	177	83	76	51	97	53	21	7.1	5.4
3	5.0	8.0	23	274	76	71	78	92	51	16	7.1	8.5
4	4.5	8.0	32	118	71	67	65	108	59	15	6.5	8.5
5	15	8.0	37	83	67	69	63	85	55	15	5.4	6.5
6	60	8.4	30	69	62	842	55	76	57	14	4.8	17
7	35	8.2	26	78	56	842	45	71	45	13	4.3	24
8	29	7.8	28	527	51	298	42	67	42	12	4.3	11
9	19	7.6	110	267	48	190	57	63	38	11	3.8	7.7
10	16	7.4	100	141	45	160	88	59	36	11	3.8	5.9
11	13	7.2	80	103	42	251	63	55	35	11	14	5.4
12	10	6.8	60	95	40	173	51	55	32	9.2	5.9	5.4
13	8.0	7.0	44	105	38	132	45	85	29	10	7.1	4.8
14	8.6	6.9	39	250	36	125	67	88	27	9.2	24	5.4
15	9.4	6.8	34	190	35	111	85	85	26	9.2	13	6.5
16	8.4	7.2	30	150	34	92	76	61	24	9.2	9.2	5.4
17	7.4	11	35	125	32	90	71	51	23	10	7.7	4.8
18	7.0	50	31	100	31	85	59	49	24	14	9.2	4.3
19	7.0	33	27	130	30	78	51	51	23	9.2	20	4.3
20	7.4	24	26	80	30	76	47	49	20	8.5	26	3.8
21	7.2	19	44	600	33	71	44	45	19	9.2	15	5.9
22	7.2	16	36	485	40	67	42	40	19	8.5	11	90
23	7.2	13	30	216	50	63	40	65	19	7.7	8.5	51
24	7.6	30	24	230	100	61	36	194	16	7.1	8.5	23
25	7.2	23	69	1860	180	71	38	201	16	7.1	11	13
26	8.0	20	59	529	300	63	45	153	15	5.9	8.5	10
27	23	17	40	294	160	55	763	95	15	6.5	7.1	8.5
28	20	16	32	209	100	51	391	78	15	5.9	7.1	7.7
29	16	16	24	163	---	53	187	76	14	5.4	6.5	7.1
30	14	35	23	135	---	55	138	76	23	5.9	6.5	7.7
31	12	---	26	116	---	51	---	65	---	5.4	6.5	---
TOTAL	410.7	448.9	1251	7989	1970	4570	2930	2549	927	335.1	402.3	373.9
MFAN	13.2	15.0	40.4	258	70.4	147	97.7	82.2	30.9	10.8	13.0	12.5
MAX	60	50	110	1860	300	842	763	201	59	33	71	90
MIN	4.5	6.8	23	69	30	51	36	40	14	5.4	3.8	3.8
CFSM	.54	.61	1.65	10.5	2.87	6.00	3.99	3.36	1.26	.44	.53	.51
IN.	.62	.68	1.90	12.13	2.99	6.94	4.45	3.87	1.41	.51	.61	.57

WTR YR 1979 TOTAL 24156.9 MEAN 66.2 MAX 1860 MIN 3.8 CFSM 2.70 IN 36.68

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 1978 TO SEPTEMBER 1979

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 (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 14...	0900	3.0	43200	7.8	28.0	3.0	6.0	8	4.0	11.0	88
MAR 13...	0930	3.0	--	7.6	--	3.5	3.5	10	6.0	12.3	92
MAY 10...	0915	3.0	27000	7.7	17.0	21.0	15.0	50	2.0	10.4	102
AUG 13...	1325	3.0	36000	7.3	25.0	25.5	21.0	0	4.0	7.4	82

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0 / UM-MF (COLS./ 100 ML)	STREP- TOCUCCI 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- LINEITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 14...	76	32	K7	4900	4800	350	980	94	--	2000	16000
MAR 13...	780	120	K12	4800	4700	340	950	91	--	3800	13000
MAY 10...	17000	3000	76	3800	3700	240	770	88	--	1700	12000
AUG 13...	320	170	K4	4900	4800	310	1000	87	8.5	2100	13000

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, 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)
DEC 14...	1.0	28500	38.8	29200	.15	.21	--	.00	.16	.31	1.4
MAR 13...	1.4	27300	37.1	46500	.22	.14	--	.29	.43	.65	2.9
MAY 10...	2.0	23500	32.0	26100	.16	.39	.47	.51	.90	1.1	4.7
AUG 13...	.8	210	.29	31000	.07	.24	.29	.25	.49	.56	2.5

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)
DEC 14...	.14	--	0	70	10	30	3.1	.70	.000	.000
MAR 13...	.08	--	3	100	40	10	1.8	.80	2.35	.000
MAY 10...	.18	.55	5	0	80	40	3.6	.60	15.2	.000
AUG 13...	.13	.40	4	280	100	50	4.1	.90	2.75	.000

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

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA

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 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.--Daily discharge records are maintained by the New England District. Daily suspended-sediment record for this report will be published in the 1980 annual report.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW INSTANT- TANGENTIAL (CFS)	SFDT- MENT. SUS- PENDED (MG/L)	SFDT- MENT. DIS- CHARGE SUS- PENDED (T/DAY)	DATE	TIME	STREAM- FLOW INSTANT- TANGENTIAL (CFS)	SFDT- MENT. SUS- PENDED (MG/L)	SFDT- MENT. DIS- CHARGE SUS- PENDED (T/DAY)
APR					APR				
01...	1530	1320	12	43	21...	1720	858	7	16
02...	1700	1330	6	22	22...	1600	783	6	13
03...	1710	1390	5	14	23...	1630	718	9	17
04...	1400	1260	5	17	24...	1700	662	10	18
05...	0920	1260	--	--	25...	1700	1020	13	30
05...	1650	1260	5	17	26...	1600	1420	15	58
06...	1530	1210	3	4.8	30...	1700	1440	14	54
07...	1600	1080	3	4.7	MAY				
08...	1800	916	4	9.9	01...	1730	1150	12	37
09...	1710	916	4	9.9	02...	1700	945	8	20
10...	1700	960	3	7.8	03...	1725	824	--	--
11...	1700	945	4	10	03...	1900	410	9	20
12...	1800	960	5	13	04...	1930	908	13	32
13...	1730	857	4	10	05...	1900	865	12	28
14...	1800	1090	5	15	06...	1600	776	11	23
15...	1630	1190	4	13	07...	1700	687	10	17
16...	1630	1210	6	20	08...	1600	644	15	26
17...	1630	1330	6	22	10...	1700	581	9	14
18...	1700	1270	5	17	11...	2000	533	5	7.2
19...	1710	1040	9	24					
20...	1720	645	3	7.7					

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

MAY					JUN				
DATE	TIME	STREAM- FLOW, INSTANTANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	DIS- CHARGE, SUS- PENDED (T/DAY)
12...	1300	516	6	8.4	01...	1900	982	11	29
13...	1400	575	9	14	02...	1800	817	7	15
14...	1730	744	11	22	03...	1800	724	7	14
15...	1700	705	9	17	04...	2000	644	8	14
16...	1800	587	8	17	05...	1900	624	6	10
17...	1700	488	7	9.2	06...	1800	605	7	11
18...	1830	467	4	5.0	07...	2010	545	6	8.8
19...	1400	461	9	11	08...	1730	505	5	6.8
20...	1500	430	6	7.0	09...	1700	445	5	6.0
21...	1600	399	4	4.3	10...	1800	430	6	7.0
22...	1500	363	5	4.4	11...	1930	440	8	9.5
23...	1400	343	7	6.7	12...	1410	564	--	--
24...	1800	757	27	55	12...	1500	575	10	16
25...	1700	231	63	34	13...	1800	495	5	6.7
26...	1600	3150	55	476	14...	1730	425	4	4.6
27...	1400	2780	31	233	15...	1830	373	3	3.0
28...	1400	1440	18	84	16...	1500	339	9	8.2
29...	1700	1430	13	57	17...	1530	325	10	8.8
30...	1900	1340	11	51	18...	1920	298	6	4.8
31...	1700	1200	13	82					

JUN					JUL				
DATE	TIME	STREAM- FLOW, INSTANTANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	DIS- CHARGE, SUS- PENDED (T/DAY)
01...	1800	265	7	5.0	09...	1800	164	10	4.4
02...	1430	246	9	5.0	10...	1830	155	11	4.6
03...	1710	235	10	6.3	11...	2000	149	10	4.0
04...	1700	224	7	4.2	12...	1600	147	10	4.0
05...	1500	217	9	5.3	13...	1500	144	10	3.9
06...	1600	210	9	5.1	14...	1700	141	10	3.8
07...	1700	203	10	5.5	15...	1800	141	16	6.1
08...	1800	194	11	5.6	16...	1530	141	15	5.7
09...	1630	188	12	5.0	17...	1500	420	13	15
10...	1500	180	12	5.8	18...	1215	348	--	--
11...	2000	170	12	5.5	18...	1640	343	14	13
12...	1600	170	14	5.4	19...	1600	311	12	10
01...	1400	175	10	4.8	20...	1400	231	10	5.2
02...	1700	316	15	14	21...	1530	203	14	7.7
03...	2000	273	11	6.1	22...	1400	302	11	9.0
04...	1600	224	9	5.4	23...	1700	302	10	8.2
05...	1630	200	11	5.4	24...	1500	227	14	8.6
06...	1605	183	11	5.4	25...	1700	193	12	5.3
07...	1230	176	11	5.2	26...	1040	180	14	6.8
08...	1600	164	9	4.0					

229

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

JUL					AUG				
DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JUL 27...	1504	307	12	9.9	AUG 16...	1700	203	11	6.4
JUL 28...	1620	290	13	10	AUG 17...	1500	200	11	5.9
JUL 29...	1300	220	12	7.1	AUG 18...	1400	161	4	1.7
JUL 30...	2000	133	11	5.7	AUG 19...	1100	227	15	9.2
JUL 31...	1510	173	3	1.4	AUG 20...	1500	220	14	8.3
AUG 01...	1510	164	6	2.7	AUG 21...	1700	126	10	3.4
AUG 02...	1615	170	13	6.0	AUG 22...	1640	180	10	4.9
AUG 03...	0600	176	13	6.2	AUG 23...	1400	176	12	5.7
AUG 04...	0630	161	16	7.0	AUG 24...	1710	164	7	3.1
AUG 05...	1500	134	16	5.8	AUG 25...	0630	161	13	5.7
AUG 06...	1620	129	10	3.5	AUG 26...	0720	200	11	5.9
AUG 07...	1540	119	15	4.8	AUG 27...	1400	265	5	3.6
AUG 08...	1700	134	13	4.7	AUG 28...	1800	238	12	7.7
AUG 09...	2000	126	15	5.1	AUG 29...	1600	147	5	2.0
AUG 10...	1430	124	22	7.7	AUG 30...	1520	213	9	5.2
AUG 11...	1600	147	8	3.2	AUG 31...	1700	265	8	5.7
AUG 12...	1610	167	4	1.8	SEP 01...	1300	242	7	4.6
AUG 13...	1600	404	30	33	SEP 02...	1520	213	7	4.0
AUG 14...	1500	383	12	12	SEP 03...	1750	210	8	4.5
AUG 15...	1540	238	12	7.7					

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, 2.6 mi (4.2 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE (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. PER 100 ML	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1700	175	275	7.6	13.5	10.5	30	2.0	11.5	103	2100	180
NOV												
07...	0950	175	315	7.8	11.0	11.0	35	5.0	11.4	103	150	22
DEC												
12...	0945	1600	280	7.3	-5.0	1.5	20	5.0	16.2	116	1200	240
JAN												
10...	1215	3600	200	7.9	-4.0	.5	5	3.0	13.8	96	4700	460
FEB												
07...	1215	1000	315	6.9	-5.0	.5	10	5.0	13.0	90	190	20
MAR												
08...	1025	13200	117	7.6	2.5	1.0	15	25	13.5	95	3800	640
APR												
11...	0900	2200	230	6.5	6.5	3.5	5	2.0	12.9	97	440	120
MAY												
03...	1120	1600	250	7.2	24.0	17.0	5	6.0	10.7	110	4400	48
JUN												
12...	1100	1600	260	6.4	13.0	16.0	5	2.0	8.5	86	3000	560
JUL												
18...	1115	195	355	8.0	18.0	24.0	5	15	9.9	116	1000	250
AUG												
08...	1005	220	340	8.2	24.0	23.5	9	5.0	8.8	102	160	20
SEP												
19...	1100	1120	280	8.1	15.5	17.0	10	4.0	8.0	82	700	56

DATE	STREP- TOCOCI FFCAL, 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											
16...	K11	--	--	--	--	--	--	15	--	166	.23
NOV											
07...	K4	--	--	--	--	--	--	17	--	194	.26
DEC											
12...	120	100	26	26	9.4	78	17	15	4.0	144	.20
JAN											
10...	700	--	--	--	--	--	--	17	--	104	.14
FEB											
07...	29	--	--	--	--	--	--	16	--	166	.23
MAR											
08...	200	38	9	10	3.2	29	7.0	7.0	2.6	62	.08
APR											
11...	120	--	--	--	--	--	--	13	--	122	.17
MAY											
08...	K16	100	0	27	8.9	890	12	12	2.6	138	.19
JUN											
12...	260	--	--	--	--	--	--	14	--	150	.20
JUL											
18...	130	--	--	--	--	--	--	20	--	202	.27
AUG											
08...	28	140	13	36	13	130	17	21	.5	192	.26
SEP											
19...	20	--	--	--	--	--	--	17	--	165	.22

< 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

231

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
OCT										
16...	78.4	180	--	--	.49	.00	--	.62	.62	1.1
NOV										
07...	91.7	209	--	--	.56	.02	--	.38	.40	.96
DEC										
12...	622	147	--	--	.61	.11	--	.23	.34	.95
JAN										
10...	1010	106	--	--	.38	.04	--	.83	.87	1.3
FEB										
07...	448	175	--	--	.67	.10	--	.17	.27	.94
MAR										
08...	2210	150	--	--	.23	.10	--	.67	.77	1.0
APR										
11...	725	133	--	--	.34	.04	--	.18	.22	.56
MAY										
08...	596	159	--	--	.30	.06	.07	.37	.43	.73
JUN										
12...	648	185	--	--	.41	.04	.05	.33	.37	.78
JUL										
18...	106	219	--	--	.06	.13	--	.97	1.1	1.2
AUG										
08...	114	206	--	--	.03	.09	.11	.75	.84	.87
SEP										
19...	499	196	.54	.01	.55	.06	.07	.62	.68	1.2

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHOS, TOTAL (MG/L AS P)	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)
OCT									
16...	4.9	.13	--	.02	5	--	--	10	7.7
NOV									
07...	4.3	.11	--	.06	4	--	--	20	5.6
DEC									
12...	4.2	.14	--	.11	0	110	40	10	5.6
JAN									
10...	5.5	.06	--	--	3	--	--	10	4.6
FEB									
07...	4.2	.07	--	.05	1	--	--	10	2.8
MAR									
08...	4.4	.14	--	.03	2	80	50	0	4.6
APR									
11...	2.5	.05	--	.02	7	--	--	10	2.8
MAY									
08...	3.2	.05	.15	.01	3	50	40	20	6.1
JUN									
12...	3.5	.07	.21	.02	10	--	--	10	3.4
JUL									
18...	5.1	.08	.25	.00	4	--	--	10	4.0
AUG									
08...	3.9	.08	.25	.03	5	30	9	3	6.2
SEP									
19...	5.4	.08	.25	.09	4	--	--	0	2.7

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHYTO- PLANK- TON. TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL ROTTLE TEST (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-H PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 16...	.00	7700	25	17.2	.000
NOV 07...	--	11000	1.4	13.5	.000
DEC 12...	.00	660	36	.240	.000
JAN 10...	--	3300	11	.940	.000
FEB 07...	--	1600	31	.000	.000
MAR 08...	.00	690	1.1	.610	.000
APR 11...	--	220	12	.000	.000
MAY 08...	.00	6500	8.3	7.30	.000
JUN 12...	--	6200	9.7	7.91	.000
JUL 18...	--	220000	.6	69.8	6.84
AUG 08...	.10	56000	4.6	34.1	.000
SEP 19...	--	30000	--	12.8	.000

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON													
DATE TIME	OCT 16,78 1300	NOV 7,78 0950	DEC 12,78 0915	JAN 10,79 1215	FEB 7,79 1215	MAR 8,79 1025							
TOTAL CELLS/ML	7700	11000	660	3300	1600	690							
DIVERSITY: DIVISION	1.2	1.1	1.5	0.1	0.5	0.5							
..CLASS	1.2	1.1	1.5	0.1	0.5	0.5							
...ORDER	1.2	1.5	1.9	0.1	0.5	0.5							
...FAMILY	1.6	1.8	2.0	0.1	0.5	0.5							
....GENUS	1.8	1.8	2.7	0.1	0.5	1.2							
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
CHLOROPHYTA (GREEN ALGAE)													
..CHLOROPHYCEAE													
...CHLOROCOCCALES													
...OCYSTACEAE													
....DICHOTOMOCOCCUS	--	-	--	-	--	-	--	-	--	-	--	-	
...COELASTRACEAE													
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-	
...HYDRODICTYACEAE													
....PEDIATRUM	--	-	--	-	--	-	--	-	--	-	--	-	
...MICRACETINACEAE													
....GOLFNKINIA	180	2	--	-	--	-	--	-	--	-	--	-	
....GOLFNKINIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-	
...MICRACETINIUM	270	3	--	-	--	-	--	-	--	-	--	-	
...OCYSTACEAE													
....ANKISTRODESMUS	180	2	400	4	72	11	*	0	*	0	--	-	
...CHODATELLA	--	-	57	1	--	-	--	-	--	-	--	-	
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	--	-	
...KIRCHNERIELLA	--	-	--	-	14	2	--	-	--	-	--	-	
...OCYSTIS	--	-	--	-	58	9	--	-	--	-	--	-	
...SELENASTRUM	--	-	--	-	--	-	--	-	--	-	--	-	
...TETRAEDRON	88	1	--	-	--	-	--	-	--	-	--	-	
...TETRAHARIA	44	1	--	-	--	-	--	-	--	-	--	-	
...WESTELLA	--	-	--	-	--	-	--	-	--	-	--	-	
...SCENEDESMACEAE													
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	--	-	
...CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	--	-	
...SCENEDESMUS	710	9	630	6	--	-	--	-	*	0	29	4	
...TETRASTRUM	350	5	--	-	--	-	--	-	--	-	--	-	
...VOLVOCALES													
...CHLAMYDOMONADACEAE													
....CHLAMYDOMONAS	--	-	57	1	--	-	*	0	--	-	--	-	
...ZYGNEMATALES													
...DESMIDIACEAE													
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	14	2	
...CHLOROCOCCALES													
...OCYSTACEAE													
...POLYEDRIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-	
CHRYSOPHYTA													
..BACILLARIOPHYCEAE													
...CENTRALES													
...COSCINODISCAEAE													
....CYCLOTELLA	5100#	67	6800#	65	170#	26	--	-	20	1	--	-	
....MELOSIRA	--	-	--	-	140#	22	--	-	--	-	--	-	
...STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-	
...PENNALIS													
...ACHNANTHACEAE													
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-	
...COCCONEIS	--	-	57	1	--	-	--	-	--	-	--	-	
...RHODICOSPHEA	--	-	--	-	--	-	--	-	--	-	14	2	
...CYMBELLACEAE													
....CYMBELLA	--	-	57	1	--	-	*	0	--	-	--	-	
...DIATOMACEAE													
....DIATOMA	--	-	57	1	--	-	--	-	--	-	--	-	
...FRAGILARIACEAE													
....ASTRIONELLA	--	-	--	-	--	-	--	-	--	-	--	-	
...FRAGILARIA	--	-	--	-	--	-	--	-	--	-	--	-	
...SYNEURA	--	-	--	-	--	-	--	-	--	-	--	-	
...GOMPHONEMACEAE													
....GOMPHONEMA	--	-	110	1	--	-	--	-	--	-	--	-	
...NAVICULACEAE													
....NAVICULA	--	-	230	2	14	2	*	0	40	2	--	-	
...NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-	
...NITZSCHIAEAE													
....NITZSCHIA	44	1	280	3	29	4	*	0	15	1	--	-	
CHRYSOPHYCEAE													
...CHRYSOMONADALES													
...CHROMULINACEAE													
...CHRYSOCCUS	--	-	--	-	--	-	--	-	--	-	--	-	
...OCHROMONADACEAE													
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	--	-	
...XANTHOPHYCEAE													
...HETEROCOCCALES													
...CENTRITRACTACEAE													
...CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-	--	-	

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

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

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	OCT 16, 78 1300		NOV 7, 78 0950		DEC 12, 78 0915		JAN 10, 79 1215		FEB 7, 79 1215		MAR 8, 79 1025	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	710	4	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	29	4	--	-	--	-	--	-
....COCCOCHLOKIS	--	-	--	-	--	-	--	-	--	-	--	-
...HORMOGONALS												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	130#	19
....OSCILLATORIA	--	-	1800#	17	130#	20	3300#	99	1500#	93	510#	73
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	20	1	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
...GLENODINIACEAE												
....GLENODINIUM	--	-	--	-	--	-	--	-	0	0	--	-

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

° - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON												
DATE TIME	APR 11,79 0900	MAY 8,79 1120	JUN 12,79 1100	JUL 18,79 1115	AUG 8,79 1005	SEP 19,79 1100						
TOTAL CELLS/ML	220	6500	6200	220000	56000	30000						
DIVERSITY: DIVISION	0.4	0.2	0.8	1.2	1.4	1.5						
...CLASS	0.4	0.2	0.8	1.2	1.4	1.6						
...ORDER	1.2	0.4	0.8	1.3	1.5	1.6						
...FAMILY	2.3	0.4	1.0	2.2	2.0	1.8						
...GENUS	2.7	0.4	1.2	2.7	2.9	2.1						
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...OOCYSTACEAE												
...DICHOTOMOCOCCLUS	--	-	--	-	--	-	--	-	--	-	1500	5
...COELASTHACEAE												
...COELASTRUM	--	-	--	-	--	-	--	-	1100	2	--	-
...HYDRODICTYACEAE												
...PEDIASTRUM	--	-	--	-	--	-	15000	7	--	-	--	-
...MICPACTINIACEAE												
...GOLENKINIA	--	-	51	1	150	2	--	-	9	0	--	-
...GOLENKINIOPSIS	--	-	--	-	--	-	8	0	--	-	--	-
...MICPACTINIUM	--	-	--	-	--	-	93000#	42	1800	3	--	-
...OOCYSTACEAE												
...ANKISTRODESMUS	--	-	--	-	150	2	2300	1	420	1	540	2
...CHODATELLA	--	-	51	1	--	-	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	3200	6	--	-
...KIRCHNERIELLA	--	-	51	1	--	-	4200	2	9	0	760	3
...OOCYSTIS	--	-	--	-	--	-	9	0	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-	420	1	--	-
...TETRAEDRON	--	-	--	-	--	-	--	-	9	0	9	0
...TRIFURARIA	--	-	--	-	--	-	--	-	9	0	--	-
...WESTELLA	--	-	--	-	--	-	--	-	560	1	--	-
...SCENEDESMACEAE												
...ACTINASTRUM	--	-	--	-	--	-	14000	6	1100	2	1700	6
...CILIIGENIA	--	-	--	-	--	-	--	-	1500	3	--	-
...SCENEDESMUS	--	-	--	-	660	11	8300	4	7000	13	980	3
...TETRASTRUM	--	-	--	-	--	-	9	0	--	-	--	-
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
...CHLAMYDOMONAS	--	-	--	-	--	-	9	0	560	1	9	0
...ZYGNEMATALES												
...DESMIDIACEAE												
...GLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
...CHLOROCOCCALES												
...OOCYSTACEAE												
...POLYEDRIOPSIS	--	-	--	-	--	-	9	0	--	-	--	-
CHRYSTOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
...COSCINODISCEACEAE												
...CYCLOTELLA	58#	27	6200#	94	4800#	78	16000	7	3500	6	9800#	32
...MFLOSIPIA	--	-	--	-	--	-	--	-	--	-	--	-
...STEPHANODISCUS	--	-	--	-	250	4	--	-	1800	3	--	-
...PENNALIS												
...ACHNANTHACEAE												
...ACHNANTHES	--	-	--	-	--	-	9	0	--	-	--	-
...COCCONEIS	--	-	--	-	--	-	--	-	--	-	--	-
...RHOTICOSPHEIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
...CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
...DIATOMA	14	7	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
...ASTERIONELLA	14	7	--	-	--	-	--	-	--	-	--	-
...FRAGILARIA	--	-	51	1	--	-	--	-	--	-	--	-
...SYNEDRA	58#	27	100	2	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE												
...GOMPHONEMA	14	7	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
...NAVICULA	29	13	--	-	--	-	--	-	--	-	--	-
...NEIDIUM	14	7	--	-	--	-	--	-	--	-	--	-
...NITZSCHIA												
...NITZSCHIA	--	-	51	1	--	-	1900	1	1300	2	9	0
CHRYSTOPHYCEAE												
..CHRYSOMONADALES												
...CHROMULINACEAE												
...CHRYSOCOCCLUS	--	-	--	-	--	-	--	-	--	-	9	0
...OCHROMONADACEAE												
...OCHROMONAS	--	-	--	-	--	-	9	0	--	-	--	-
..XANTHOPHYCEAE												
...HETEROCOCCALES												
...CENTRITRACTACEAE												
...CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-	9	0

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

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	APR 11, 79 0900		MAY 8, 79 1120		JUN 12, 79 1100		JUL 18, 79 1115		AUG 8, 79 1005		SEP 19, 79 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	30000	13	25000#	45	14000#	46
....ANACYSTIS	--	-	--	-	50	1	34000#	15	5600	10	430	1
...COCCOCHLORIS	--	-	--	-	100	2	--	-	--	-	--	-
...HORMOGONALES												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	14	7	--	-	--	-	--	-	--	-	--	-
....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%

HOUSATONIC RIVER BASIN

237

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, 0.5 mi (0.8 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 missed 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; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 26.0°C August 2-5; minimum daily, 0.0°C on many days during winter periods.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	8.0	1.0	.0	.0	.0	7.0	14.0	16.0	20.0	25.5	23.0
2	14.0	8.0	1.0	.5	.0	.0	7.0	13.5	16.0	20.0	26.0	22.0
3	13.0	8.0	1.0	.5	.0	.0	6.0	13.0	17.0	20.0	26.0	22.0
4	13.0	8.0	1.0	.0	.0	1.0	5.0	13.0	17.0	20.0	26.0	22.0
5	14.0	8.0	1.0	.0	.0	1.0	5.0	13.0	18.0	19.0	26.0	22.0
6	13.0	8.0	2.0	.0	.0	2.0	5.0	12.5	19.0	19.0	25.0	23.5
7	12.0	8.0	2.0	.0	.0	1.0	5.0	12.5	18.0	19.0	25.0	21.0
8	11.0	8.0	2.0	.0	.0	1.0	4.0	13.5	19.0	19.0	25.0	20.5
9	10.5	8.0	1.0	.0	.0	1.0	4.0	16.0	19.0	18.5	23.0	19.0
10	10.0	8.0	1.0	.0	.0	1.0	3.0	18.5	19.0	20.0	23.0	18.0
11	10.5	8.0	.5	.0	.0	.0	4.0	20.0	16.0	21.0	22.0	19.0
12	11.0	8.0	.0	.0	.0	.0	5.0	19.0	17.0	21.5	20.0	19.0
13	11.5	8.0	.0	.0	.0	1.0	5.0	19.0	15.5	22.0	19.0	18.0
14	11.5	8.0	.0	.0	.0	1.0	5.0	18.0	15.5	23.0	19.0	18.0
15	12.0	7.0	.0	.0	.0	2.0	6.0	16.0	16.0	24.0	18.0	19.0
16	12.0	7.0	.0	.0	.0	.0	6.0	16.5	18.5	25.0	18.0	18.0
17	10.5	6.5	.0	.0	.0	1.0	6.0	17.0	19.0	25.0	18.0	17.0
18	9.0	6.5	.0	.0	.0	2.0	6.0	17.0	21.5	25.0	18.0	17.0
19	9.0	6.5	.0	.0	.0	2.5	6.5	17.0	22.0	24.0	17.0	18.0
20	9.0	6.5	.0	.0	.0	3.0	8.0	17.0	21.0	24.0	17.0	16.0
21	9.5	6.0	.0	.0	.0	4.0	8.0	17.0	21.0	24.0	18.0	16.0
22	10.0	5.0	.0	.0	.0	5.0	9.0	16.0	21.0	24.0	18.0	15.5
23	10.0	4.0	.0	.0	.0	5.0	10.0	16.0	20.0	24.0	19.0	14.0
24	10.0	3.0	.0	.0	.0	5.5	10.0	16.0	19.0	25.0	20.0	14.0
25	9.0	2.0	.0	.0	.0	6.0	11.0	14.0	18.0	25.0	20.0	14.0
26	9.5	1.0	.0	.0	.0	6.5	12.0	15.0	18.0	25.0	21.0	14.0
27	10.0	1.0	.0	.0	.0	5.0	13.0	15.0	18.0	25.0	21.0	14.0
28	9.5	.0	.0	.0	.0	3.5	13.0	15.0	19.0	25.0	22.0	14.0
29	9.5	.0	.0	.0	---	4.0	13.5	15.0	19.0	25.0	22.0	14.0
30	9.0	.0	.0	.0	---	5.0	14.0	15.0	19.0	25.0	22.0	15.0
31	8.0	---	.0	.0	---	5.0	---	16.0	---	25.0	23.0	---
MEAN	11.0	6.0	.5	.0	.0	2.5	7.5	15.5	18.5	22.5	21.5	18.0
WTR YR 1979	MEAN	10.5		MAX	26.0		MIN	.0				

HOUSATONIC RIVER BASIN

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.--67 years, 1,092 ft³/s (30.92 m³/s), 23.37 in/yr (594 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)
Jan. 3	1830	4,940 140	6.64 2.024	Mar. 8	0330	*13,500 382	*12.84 3.914
Jan. 8	2200	4,850 137	6.57 2.002	Mar. 27	0400	4,040 114	5.95 1.814
Jan. 25	1730	4,990 141	6.68 2.036	May 26	1300	5,890 167	7.37 2.246

Minimum daily discharge, 74 ft³/s (2.10 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	321	420	739	1570	1620	2230	2640	2120	302	277	473
2	250	299	365	1910	1300	1540	2250	2050	1850	469	275	412
3	270	365	358	4550	1160	1520	2320	1810	1540	543	325	369
4	292	416	455	4200	1100	1660	2240	1740	1430	480	284	346
5	281	375	558	3790	1020	2660	2170	1740	1320	343	416	418
6	317	391	700	2750	934	6660	2120	1550	1310	349	328	718
7	379	321	509	1870	900	12600	1950	1440	1220	382	249	1900
8	429	312	536	3730	860	13000	1830	1260	1120	281	220	2120
9	326	339	733	4460	830	10300	1690	1230	979	305	215	1710
10	325	413	1170	3620	800	6800	1890	1110	908	276	213	1230
11	362	400	1060	2670	725	6440	2040	1070	1010	289	254	800
12	353	258	965	1730	700	5990	1950	954	1140	271	342	631
13	362	269	746	1540	670	5050	1900	994	1240	269	625	301
14	346	348	784	1630	640	4290	2010	1280	954	277	706	486
15	254	347	596	1720	610	3960	2530	1470	870	250	588	556
16	390	332	575	1410	590	3370	2560	1240	732	253	442	494
17	399	403	580	1260	570	2840	2620	1060	632	253	377	543
18	304	328	531	1070	550	2450	2500	902	648	593	355	522
19	317	315	374	958	522	2230	2230	894	497	672	423	400
20	315	452	439	955	542	2110	1950	914	491	522	489	418
21	335	433	513	1060	591	2060	1810	905	510	372	434	493
22	351	489	740	1790	614	2210	1620	745	441	271	345	1130
23	354	310	657	2240	653	2430	1450	768	490	523	323	1700
24	324	395	505	2140	1150	2660	1430	1190	329	466	306	1470
25	275	410	573	4050	2590	3480	1270	4120	447	365	302	1080
26	337	411	493	4620	2770	3970	1280	5740	409	290	422	844
27	433	393	487	4230	2220	4010	1570	5530	545	375	411	740
28	550	401	445	3590	1800	3600	2200	4760	74	473	503	662
29	544	349	363	2820	---	2920	2900	4050	382	454	447	882
30	436	396	433	2240	---	2540	3000	3160	314	369	485	1130
31	377	---	520	1880	---	2290	---	2540	---	309	518	---
TOTAL	10824	10991	18183	77282	28981	129260	61560	60870	25952	11646	11899	24978
MEAN	349	366	587	2493	1035	4170	2052	1964	865	376	384	833
MAX	550	489	1170	4620	2770	13000	3000	5740	2120	672	706	2120
MIN	237	258	358	739	522	1520	1270	745	74	250	213	301
CFSM	.55	.58	.93	3.93	1.63	6.58	3.24	3.10	1.36	.59	.61	1.31
IN.	.64	.64	1.07	4.53	1.70	7.58	3.61	3.57	1.52	.68	.70	1.47

CAL YR 1978	TOTAL	380764	MEAN	1043	MAX	6000	MIN	97	CFSM	1.65	IN	22.34
WTR YR 1979	TOTAL	472426	MEAN	1294	MAX	13000	MIN	74	CFSM	2.04	IN	27.72

HOUSATONIC RIVER BASIN

239

01199000 HOUSATONIC RIVER AT FALLS VILLAGE CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1955, October 1970 to current year.

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE.--April 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: November 1974 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 427 micromhos Dec. 26, 1978; minimum, 94 micromhos Dec. 20, 1976.

WATER TEMPERATURES: Maximum, 30.0°C July 21, 1977; minimum, 0.0°C many days during winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 427 micromhos Dec. 26; minimum 125 micromhos January 25.

WATER TEMPERATURES: Maximum, 28.0°C July 17; minimum 0.5°C January 19.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
APR					APR				
01...	0800	2232	16	96	21...	0800	1819	10	49
02...	0800	2243	26	157	22...	0800	1610	9	39
03...	0800	2327	17	107	23...	0800	1591	11	47
03...	1415	2253	30	182	24...	0800	1320	8	29
04...	0930	2264	17	104	25...	0800	1178	5	16
05...	0800	2160	14	82	25...	1005	1187	5	16
06...	0800	2139	50	289	26...	0800	1187	9	29
07...	0800	2008	12	65	27...	0800	1610	12	52
08...	0800	1860	11	55	28...	0800	2191	13	77
09...	0800	1778	34	163	28...	1500	2295	12	74
10...	0800	1850	14	70	29...	0800	2833	21	161
11...	0800	2068	14	78	30...	0800	3048	24	198
12...	0800	1968	6	32	MAY				
13...	0800	1909	14	72	01...	0800	2740	21	155
14...	0800	1860	10	50	02...	0800	2109	12	68
15...	0800	2535	15	103	03...	0800	1819	9	44
16...	0800	2569	9	62	04...	0800	1688	21	96
17...	0800	2614	19	134	05...	0800	1758	20	95
18...	0800	2546	15	103	06...	0800	1591	14	60
19...	0800	2327	12	75					
20...	0800	1968	7	37					

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)
MAY					MAY				
07...	0800	1402	16	61	25...	1800	4913	116	1540
08...	0800	1639	6	27	25...	2300	5269	128	1820
09...	0800	1698	7	32	26...	0500	5631	245	3730
10...	0800	1668	5	23	26...	0800	5762	121	1880
11...	0800	1610	4	17	26...	1200	5867	121	1920
11...	1700	226	5	3.1	27...	0800	5657	109	1670
12...	0800	1204	5	16	28...	0800	4927	68	905
13...	0800	727	4	7.9	29...	0800	4181	54	610
13...	2000	1624	6	26	30...	0800	3297	32	285
14...	0800	1798	18	87	31...	0800	2660	29	208
15...	0800	1774	7	34	JUN				
16...	0800	1728	4	19	01...	0800	2191	26	154
17...	0800	1610	3	13	02...	0800	1870	17	86
17...	1830	1600	63	272	03...	0800	1302	20	70
18...	0800	1728	4	19	04...	0800	1708	10	46
18...	1300	1356	11	40	05...	0800	1600	7	30
24...	1330	1230	15	50	06...	0715	1329	9	32
24...	1930	1620	16	70	06...	0900	1649	8	36
25...	0200	2904	153	1200	07...	0700	1178	6	19
25...	0600	3451	149	1390					
25...	1200	4194	42	229					
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (T/DAY)
JUN					JUN				
07...	0845	1678	15	68	24...	0800	205	3	1.7
08...	0940	1649	12	53	25...	0715	842	3	6.8
09...	0900	1591	11	47	25...	1330	511	12	17
10...	0800	713	4	7.7	26...	0800	222	7	4.2
10...	1800	1562	14	59	26...	0930	1169	10	32
11...	0830	1591	21	90	27...	0800	234	7	4.4
15...	1430	1169	15	51	27...	1030	1169	5	16
16...	0930	1600	13	56	28...	0800	57	12	1.8
17...	1000	1144	8	25	30...	0800	195	3	1.6
18...	0900	1644	31	138	30...	1230	1118	7	21
19...	0800	202	2	1.1	JUL				
19...	0930	1187	25	80	01...	1800	198	3	1.6
20...	0800	560	4	6.0	01...	2030	692	4	7.5
20...	0930	1678	21	95	02...	0800	573	4	6.2
21...	0930	1135	7	21	03...	0800	1135	10	31
21...	1000	1600	11	48	03...	1900	1239	13	43
21...	2100	212	8	4.6	04...	0800	208	9	5.1
22...	0800	208	8	4.5	04...	1900	1127	4	12
22...	1000	1649	20	89	05...	0800	212	4	2.3
23...	0800	212	8	4.6					
23...	0930	1668	23	104					

HOUSATONIC RIVER BASIN

241

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--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)
JUL					AUG				
05...	1030	1152	10	31	14...	0800	699	23	43
06...	0800	208	5	2.8	15...	0700	638	34	59
06...	1100	1178	27	86	16...	0700	453	17	21
07...	0800	226	21	13	17...	0700	392	18	19
08...	0800	205	7	3.9	20...	0700	493	19	25
08...	2000	1118	29	88	21...	0700	453	22	27
09...	0800	205	3	1.7	22...	0700	372	18	18
AUG					23...	0700	331	28	25
01...	1100	713	22	42	24...	0700	312	19	16
02...	0800	212	6	3.4	27...	0800	409	18	20
02...	1300	727	9	18	28...	0800	505	31	42
03...	0800	212	10	5.7	29...	0700	481	16	21
03...	1100	1135	19	58	30...	0700	464	41	51
04...	0800	208	11	6.2	SEP				
05...	0800	212	19	11	01...	0900	481	21	27
06...	1100	346	76	71	04...	0700	361	14	14
08...	0800	219	8	4.7	05...	0700	346	40	37
09...	0800	215	18	10	06...	0800	529	28	40
10...	0700	208	13	7.3	07...	0800	1600	54	233
10...	1600	219	15	8.9	10...	0800	1338	40	145
13...	0800	659	32	57					
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				
11...	0800	842	48	109	21...	0800	181	11	5.4
12...	0800	645	40	70	22...	0800	1449	8	31
13...	0800	548	24	36	23...	0800	1738	95	446
14...	0800	1110	12	36	24...	0800	1758	88	418
15...	0800	222	10	6.0	25...	0800	1329	22	79
16...	0800	188	8	4.1	27...	0800	1102	8	24
17...	0800	215	10	5.8	28...	0800	1102	14	42
18...	0800	198	9	4.8	29...	0900	592	20	32
19...	0800	191	10	5.2	30...	0800	1144	17	53
20...	0800	188	8	4.1					

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	343	326	336	304	297	300	392	352	372	315	266	302
2	343	321	335	325	306	313	359	342	348	259	190	217
3	348	333	342	315	298	302	348	332	343	186	154	163
4	347	329	343	318	306	306	333	312	326	152	139	146
5	349	328	342	---	---	---	353	333	341	165	136	151
6	342	322	335	---	---	---	363	317	332	197	151	177
7	343	326	335	---	---	---	380	360	370	206	191	200
8	337	317	330	326	320	325	360	312	333	203	136	166
9	331	319	327	327	312	321	330	309	316	191	138	161
10	333	303	322	337	319	328	323	280	291	188	173	179
11	320	290	306	339	328	335	282	272	277	194	166	181
12	307	285	296	345	333	339	276	264	270	205	192	199
13	302	289	296	344	340	342	264	256	260	216	204	212
14	307	298	303	342	330	335	274	258	265	228	214	218
15	307	300	304	342	336	339	283	275	278	249	227	237
16	305	293	300	345	336	341	293	279	286	266	248	258
17	307	298	302	345	326	336	301	291	295	339	258	297
18	313	306	308	332	314	325	326	301	308	334	281	308
19	316	308	312	334	325	330	333	326	330	279	267	271
20	316	308	313	328	322	325	331	326	329	271	268	270
21	317	307	314	328	324	326	335	325	329	272	258	265
22	316	299	309	327	318	322	345	332	336	254	210	228
23	315	305	309	320	317	318	366	344	354	251	206	234
24	314	309	314	318	310	314	392	359	372	280	239	264
25	319	310	317	318	315	317	356	321	339	252	125	168
26	318	314	315	318	315	317	427	355	400	177	127	153
27	320	314	317	317	312	314	423	348	383	199	184	194
28	317	306	314	321	313	317	346	333	339	216	194	203
29	309	298	306	327	320	323	344	327	335	228	218	221
30	302	295	298	350	314	326	344	327	336	246	231	239
31	300	289	298	---	---	---	330	316	323	263	251	259
MONTH	349	285	316	350	297	324	427	256	326	339	125	217
FEBRUARY			MARCH			APRIL			MAY			
1	276	260	269	---	---	---	208	204	205	211	205	207
2	284	277	280	---	---	---	207	197	201	225	211	217
3	294	285	289	---	---	---	199	192	196	238	225	232
4	299	296	298	---	---	---	205	199	202	243	238	242
5	304	298	301	---	---	---	210	206	208	253	243	249
6	313	308	310	---	---	---	216	208	212	253	252	252
7	321	314	317	---	---	---	218	214	216	253	251	252
8	320	316	318	---	---	---	227	218	222	258	252	254
9	318	314	316	---	---	---	232	228	231	268	254	259
10	323	313	319	---	---	---	232	226	228	269	258	262
11	327	319	323	---	---	---	237	229	232	269	261	264
12	328	318	322	---	---	---	241	236	238	269	263	266
13	336	325	331	---	---	---	240	236	238	268	263	266
14	339	324	333	---	---	---	237	218	232	264	249	258
15	338	333	336	---	---	---	216	203	208	246	237	242
16	338	331	335	---	---	---	211	203	206	241	235	238
17	337	332	335	---	---	---	205	200	202	243	235	238
18	343	333	337	---	---	---	207	205	206	249	237	243
19	344	339	342	---	---	---	213	207	209	259	255	258
20	344	333	340	---	---	---	223	213	217	271	265	267
21	342	335	339	---	---	---	230	223	225	283	271	276
22	341	332	336	---	---	---	235	230	232	291	277	286
23	343	337	340	199	188	193	237	233	235	300	290	296
24	340	237	297	182	165	174	246	237	240	307	259	289
25	241	192	216	159	145	152	250	244	246	246	172	195
26	229	218	223	---	---	---	251	245	248	169	165	168
27	225	217	221	---	---	---	244	220	233	168	166	166
28	---	---	---	---	---	---	224	208	217	183	167	176
29	---	---	---	---	---	---	224	200	213	187	181	184
30	---	---	---	---	---	---	210	201	207	205	186	196
31	---	---	---	206	199	203	---	---	---	215	204	209
MONTH	344	192	308	206	145	181	251	192	220	307	165	239

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	229	214	222	310	302	306	---	---	---	296	284	288
2	239	227	232	310	296	302	---	---	---	305	297	300
3	248	237	241	301	285	292	---	---	---	301	292	296
4	254	243	248	306	285	292	---	---	---	308	297	302
5	260	246	253	315	304	308	---	---	---	312	306	309
6	258	250	253	316	303	310	---	---	---	309	228	286
7	256	239	248	306	290	298	---	---	---	230	203	212
8	262	250	255	295	280	289	---	---	---	204	167	185
9	263	255	260	281	259	268	277	270	274	188	166	175
10	264	257	260	267	261	264	286	277	283	211	190	201
11	---	---	---	277	266	271	291	286	289	229	213	221
12	---	---	---	282	274	278	292	264	283	245	230	237
13	263	247	253	288	276	282	267	230	243	266	247	258
14	266	254	260	291	284	287	260	241	247	275	262	267
15	264	254	260	290	283	287	289	266	282	293	274	284
16	267	255	261	297	287	292	287	279	282	308	291	298
17	266	250	258	299	293	296	290	285	288	314	303	309
18	272	258	262	300	282	291	292	277	285	314	305	311
19	274	265	270	302	282	295	284	277	280	314	302	310
20	273	266	270	298	246	268	288	282	286	308	297	303
21	276	270	273	254	230	243	300	288	292	310	298	305
22	280	271	276	238	220	227	320	302	309	302	235	276
23	288	279	283	241	225	229	322	316	320	238	224	231
24	294	289	292	235	221	228	323	320	322	227	212	218
25	293	288	291	242	220	231	330	319	324	221	209	214
26	300	292	294	244	235	239	329	311	320	240	222	228
27	312	298	302	253	233	242	310	281	291	252	237	241
28	320	311	317	249	227	238	303	278	291	262	251	254
29	318	296	309	241	222	230	313	304	308	261	252	258
30	308	304	306	247	229	238	313	288	302	252	237	245
31	---	---	---	245	234	240	287	275	281	---	---	---
MONTH	320	214	268	316	220	270	330	230	291	314	166	261

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

HOUSATONIC RIVER BASIN

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

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

HOUSATONIC RIVER BASIN

245

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.--18 years, 49.5 ft³/s (1.402 m³/s), 22.86 in/yr (581 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)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 3	0500	397 11.2	2.99 .911	Feb. 25	0100	1200 34.0	4.78 1.46
Jan. 8	--	350 9.91	ice jam	Mar. 6	2300	*1840 52.1	*5.90 1.80
Jan. 22	0200	361 10.2	2.87 .875	Mar. 11	0600	520 14.7	3.30 1.01
Jan. 25	1200	412 11.7	3.03 .924	May 25	0530	444 12.6	3.11 .948

Minimum discharge, 2.5 ft³/s (0.07 m³/s) Aug. 9, 10, gage height, 0.81 ft (0.247 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	19	34	57	62	86	84	69	15	4.9	6.0
2	10	12	17	160	53	67	80	73	60	14	5.7	5.7
3	11	11	16	277	50	70	84	60	55	13	4.9	6.0
4	13	10	20	192	47	73	66	63	48	10	4.1	5.3
5	18	10	28	140	45	180	71	56	42	10	3.4	5.3
6	23	10	24	100	43	870	61	49	44	10	3.1	31
7	23	10	21	80	40	893	55	48	38	8.8	2.9	23
8	20	12	22	350	38	348	50	45	33	8.3	2.9	13
9	17	12	40	250	36	209	66	42	31	4.8	2.6	9.4
10	15	10	39	170	34	190	104	41	30	7.3	3.8	7.8
11	14	10	31	115	33	419	81	40	36	7.3	13	7.8
12	15	9.4	32	90	32	211	71	36	59	7.3	26	13
13	16	9.4	18	100	30	139	70	41	35	6.4	40	13
14	17	8.8	18	95	30	139	102	65	28	6.4	23	10
15	29	8.8	17	65	29	131	111	57	26	6.0	19	9.4
16	18	12	17	55	28	102	102	46	24	7.3	18	6.4
17	16	13	17	47	27	93	104	42	21	4.3	15	6.4
18	16	20	19	42	28	84	87	39	20	6.9	12	13
19	17	13	17	40	29	77	74	38	19	8.3	25	9.4
20	21	11	14	70	33	77	61	34	17	6.4	15	17
21	19	10	18	130	35	77	59	32	15	6.0	11	20
22	17	10	18	295	49	80	55	32	15	6.4	9.4	71
23	15	10	16	149	40	79	52	31	15	6.0	8.3	40
24	17	11	16	69	570	81	48	117	14	5.3	8.3	36
25	13	13	21	328	790	154	46	400	14	5.3	10	32
26	15	11	20	175	300	114	47	277	13	8.3	8.8	29
27	23	13	17	108	104	92	79	143	12	20	7.8	25
28	18	13	15	90	61	84	87	113	12	8.3	7.8	25
29	20	17	17	80	---	87	149	119	11	6.4	8.8	45
30	17	18	17	69	---	87	96	93	11	5.7	15	34
31	16	---	13	62	---	83	---	80	---	4.9	8.8	---
TOTAL	529	353.4	634	4027	2691	5452	2304	2436	867	258.4	348.3	574.9
MEAN	17.1	11.8	20.5	130	96.1	176	76.8	78.6	28.9	8.34	11.2	19.2
MAX	29	20	40	350	790	893	149	400	69	20	40	71
MIN	10	8.8	13	34	27	62	46	31	11	4.9	2.6	5.3
CFSM	.58	.40	.70	4.42	3.27	5.99	2.61	2.67	.98	.28	.38	.65
IN.	.67	.45	.80	5.10	3.40	6.90	2.92	3.08	1.10	.33	.44	.73

CAL YR 1978 TOTAL 14790.5 MEAN 40.5 MAX 424 MIN 4.2 CFSM 1.38 IN 18.71
WTR YR 1979 TOTAL 20475.0 MEAN 56.1 MAX 893 MIN 2.6 CFSM 1.91 IN 25.91

HOUSATONIC RIVER BASIN

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.--19 years, 7.08 ft³/s (0.201 m³/s), 27.47 in/yr (698 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.

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)
Jan. 2	2200	75 2.12	2.79 0.850	Mar. 6	1930	*241 6.82	*4.99 1.521
Jan. 8	0800	109 3.09	3.28 1.000	Mar. 11	0600	68 1.93	2.73 0.832
Jan. 25	0430	111 3.14	3.32 1.012	May 25	0030	70 1.98	2.76 0.841
Feb. 25	0230	77 2.18	2.81 0.856				

Minimum daily discharge, 0.03 ft³/s (<0.001 m³/s) Aug. 7-9 (estimated).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.68	1.9	18	10	21	9.1	15	10	1.5	.05	.37
2	.38	.65	1.2	51	9.0	20	9.1	13	8.4	1.9	.06	.29
3	.31	.65	.97	57	7.5	21	11	12	8.0	1.0	.05	.29
4	.36	.60	5.5	31	6.5	25	9.8	14	7.2	.63	.04	.22
5	.58	.59	8.6	23	5.5	55	10	11	6.6	.58	.04	.16
6	1.2	.59	4.1	19	5.0	143	8.6	9.3	6.8	.42	.04	7.0
7	1.0	.58	2.8	19	4.5	96	7.4	8.4	5.5	.33	.03	8.2
8	.66	.72	3.3	87	4.0	40	7.0	8.0	4.4	.26	.03	3.3
9	.52	.77	12	42	3.6	28	9.8	7.2	4.1	.22	.03	2.2
10	.43	.69	12	26	3.2	32	15	6.4	4.4	.19	.04	1.2
11	.42	.64	7.8	21	3.0	55	14	5.7	7.0	.16	.29	.82
12	.38	.59	5.2	16	2.8	30	11	5.0	10	.16	.46	.58
13	.34	.54	4.5	13	2.5	22	9.5	5.9	4.8	.16	7.2	.42
14	.48	.52	4.0	19	2.3	21	20	6.8	3.3	.10	2.1	.47
15	.68	.77	3.6	15	2.1	19	20	6.2	2.9	.12	.42	.89
16	.55	1.7	3.2	9.5	2.0	15	18	4.8	2.9	.16	.42	.58
17	.47	1.0	5.7	7.7	1.9	12	18	3.9	2.2	.16	.22	.42
18	.46	3.0	7.7	7.1	1.7	12	14	3.4	1.6	.16	.82	.33
19	.51	2.4	3.4	6.8	1.6	10	12	4.1	1.2	.16	2.6	.29
20	.64	1.1	2.2	6.0	1.5	9.3	11	4.1	1.1	.12	1.1	.22
21	.59	1.3	6.9	34	1.4	9.3	9.8	3.4	.97	.08	.75	.58
22	.50	.88	6.0	67	1.3	8.8	8.8	2.9	.82	.08	.69	10
23	.43	1.0	3.9	34	1.2	8.8	8.2	4.6	1.0	.08	.52	4.0
24	.43	1.2	3.4	22	41	10	7.6	29	.89	.06	.47	2.4
25	.43	1.7	3.2	79	64	25	7.2	66	.75	.05	.63	1.6
26	.65	.79	3.1	40	41	16	9.3	38	.58	.06	.58	.58
27	2.7	.76	3.0	24	32	11	27	21	.52	.38	.52	.42
28	1.9	.87	2.9	19	27	9.1	24	19	.47	.17	.47	.42
29	1.1	.94	2.9	16	---	10	29	26	.42	.07	.58	5.9
30	.88	1.7	2.8	13	---	10	18	17	.47	.06	.89	2.2
31	.75	---	2.8	12	---	9.5	---	12	---	.06	.58	---
TOTAL	21.10	29.92	140.57	854.7	289.1	813.8	393.2	393.1	110.09	9.64	27.26	60.35
MEAN	.68	1.00	4.53	27.6	10.3	26.3	13.1	12.7	3.67	.31	.88	2.01
MAX	2.7	3.0	12	87	64	143	29	66	10	1.9	7.2	10
MIN	.31	.52	.97	6.6	1.2	8.8	7.0	2.9	.42	.05	.03	.16
CFSM	.19	.29	1.29	7.89	2.94	7.51	3.74	3.63	1.05	.09	.25	.57
IN.	.22	.32	1.49	9.08	3.07	8.65	4.18	4.18	1.17	.10	.29	.64
CAL YR 1978	TOTAL	2479.60	MEAN	6.79	MAX	95	MIN	.03	CFSM	1.94	IN	26.35
WTR YR 1979	TOTAL	3142.83	MEAN	8.61	MAX	143	MIN	.03	CFSM	2.46	IN	33.39

HOUSATONIC RIVER BASIN

247

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).

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.--50 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)
Jan. 2	2330	1880 53.2	5.08 1.548	Feb. 24	2400	3860 109	7.00 2.134
8	2300	2880 81.6	6.13 1.868	Mar. 7	1200	4940 140	7.87 2.399
21	2230	2370 67.1	5.62 1.713	11	1530	2100 59.5	5.32 1.622
25	2200	*4990 141	*7.91 2.411	May 25	2130	2140 60.6	5.37 1.637

Minimum discharge, 30 ft³/s (0.850 m³/s) Aug. 9, gage height, 0.74 ft (0.226 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	54	42	256	539	698	524	741	523	92	36	47
2	45	52	77	1070	438	729	505	642	459	102	40	42
3	43	51	71	1610	406	727	535	575	417	90	60	42
4	42	49	81	963	363	713	553	600	384	77	130	41
5	43	50	128	687	312	1200	557	551	360	71	70	39
6	48	49	109	543	265	2600	449	496	365	66	52	106
7	51	54	91	496	250	4560	440	450	321	62	44	185
8	49	61	84	2160	240	2450	416	417	285	59	37	106
9	51	53	172	2060	230	1410	446	386	256	56	30	77
10	51	52	282	1150	220	1150	687	361	245	54	35	63
11	45	49	184	793	194	1900	656	340	264	52	60	57
12	42	49	158	549	193	1510	574	307	420	50	150	51
13	40	47	141	576	190	1060	530	307	289	48	300	47
14	42	46	127	701	180	936	663	345	235	46	230	44
15	47	45	117	648	170	868	854	363	199	47	150	45
16	53	45	109	481	165	671	799	306	173	49	120	48
17	52	45	115	386	160	624	841	265	156	51	100	45
18	48	55	112	370	150	564	721	241	144	50	90	42
19	46	65	101	261	145	518	627	250	133	48	130	39
20	48	59	137	344	140	489	553	244	122	45	90	37
21	52	54	128	839	135	463	516	220	112	43	70	42
22	51	54	149	1830	130	444	440	201	105	43	58	226
23	44	54	125	1160	315	431	456	198	107	45	52	212
24	47	57	111	813	1050	428	426	585	101	50	49	125
25	52	60	111	3710	2860	811	398	1720	94	54	53	91
26	49	56	127	3140	1390	736	408	1780	88	48	54	77
27	66	57	132	1680	871	619	722	1170	83	52	48	69
28	80	55	130	1130	681	546	865	935	80	45	46	62
29	68	54	164	884	---	534	1120	998	76	42	47	164
30	61	68	191	742	---	551	897	755	75	40	59	193
31	57	---	130	626	---	537	---	619	---	37	59	---
TOTAL	1562	1599	3976	32698	12382	31477	18268	17368	6671	1714	2549	2465
MFAN	50.4	53.3	128	1055	442	1015	609	560	222	55.3	82.2	82.2
MAX	80	68	282	3710	2860	4560	1120	1780	523	102	300	226
MIN	40	45	71	256	130	428	398	198	75	37	30	37
CFSM	.25	.26	.63	5.20	2.18	5.00	3.00	2.76	1.09	.27	.41	.41
IN.	.29	.29	.73	5.99	2.27	5.77	3.35	3.18	1.22	.31	.47	.45
CAL YR 1978 TOTAL	106424	MEAN 292	MAX 2970	MIN 35	CFSM 1.44	IN 19.50						
WTR YR 1979 TOTAL	132729	MEAN 364	MAX 4560	MIN 30	CFSM 1.79	IN 24.32						

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.--39 years, (1940-79), 1,705 ft³/s (48.28 m³/s) 23.36 in/yr (593 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)
Jan. 3	1000	7,420 210	7.52 2.292	Feb. 25	1630	6,450 183	7.04 2.146
Jan. 8	2200	9,420 267	8.43 2.569	Mar. 7	0030	*20,800 589	*12.23 3.728
Jan. 25	2130	11,800 334	9.38 2.859	May 26	0600	9,330 264	8.38 2.554

Minimum discharge, 106 ft³/s (3.00 m³/s) Sept. 21, gage height 0.85 ft (0.259 m); minimum daily, 288 ft³/s (8.16 m³/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	408	466	610	1090	2780	2940	3230	4190	3390	511	433	620
2	357	491	691	3560	2330	2900	3190	3470	2890	706	506	539
3	390	438	430	7160	2090	2870	3310	2970	2500	747	419	499
4	402	459	665	5840	1900	2930	3300	2940	2260	737	437	506
5	428	553	802	4940	1800	4530	3210	2770	2070	678	413	479
6	455	510	820	4050	1700	12100	3100	2530	2010	554	468	785
7	523	493	953	2990	1590	19800	2870	2320	1950	561	451	1740
8	461	481	765	7490	1520	17400	2640	2090	1730	526	288	2310
9	609	412	1020	7970	1470	14000	2620	1920	1580	498	330	1970
10	484	547	1630	5750	1460	10300	3130	1840	1360	436	339	1460
11	326	516	1470	4310	1356	10700	3300	1690	1570	486	475	1120
12	574	483	1270	2970	1300	9220	3050	1520	1850	428	714	891
13	491	350	1150	2690	1280	7480	2880	1540	1800	446	1176	671
14	507	417	1040	3090	1230	6410	3250	1750	1560	364	987	466
15	347	450	973	3050	1200	5840	4100	2090	1360	475	911	627
16	479	461	762	2470	1170	4930	4110	1840	1140	425	723	657
17	591	545	897	2170	1130	4320	4180	1620	1060	416	590	687
18	470	529	879	2010	1100	3750	3930	1430	1080	523	534	575
19	397	437	799	2180	1080	3400	3540	1390	902	747	653	602
20	471	524	611	2500	1060	3190	3100	1370	881	742	686	496
21	449	583	768	2870	1040	3070	2800	1290	750	641	664	606
22	517	618	1020	4380	1020	3090	2570	1180	803	434	524	1320
23	474	605	1080	4110	1200	3250	2380	1220	774	478	528	2100
24	436	423	995	3750	2550	3510	2180	2390	669	683	443	1840
25	464	549	769	9490	6210	5050	2030	7340	685	586	478	1380
26	466	515	844	9330	5190	5380	2030	9180	672	418	460	1220
27	551	535	820	7260	3940	5220	3110	8140	652	559	623	1000
28	581	557	859	6040	3220	4810	3860	7240	706	552	550	938
29	742	495	864	4830	---	4160	4970	6750	395	575	617	1070
30	667	536	679	3890	---	3710	4770	5090	673	599	594	1520
31	631	---	737	3250	---	3380	---	4030	---	465	637	---
TOTAL	15148	14978	27672	137530	54890	193640	96740	97130	41722	16996	17645	30694
MEAN	489	499	893	4436	1960	6246	3225	3133	1391	548	569	1023
MAX	742	618	1630	9490	6210	19800	4970	9180	3390	747	1170	2310
MIN	326	350	430	1090	1020	2870	2030	1180	395	364	288	466
CFSM	.49	.50	.90	4.47	1.97	6.29	3.25	3.16	1.40	.55	.57	1.03
IN.	.57	.56	1.04	5.15	2.06	7.25	3.62	3.64	1.56	.64	.66	1.15

CAL YR 1978	TOTAL	584299	MEAN	1601	MAX	9170	MIN	120	CFSM	1.61	IN	21.89
WTR YR 1979	TOTAL	744785	MEAN	2041	MAX	19800	MIN	288	CFSM	2.06	IN	27.90

HOUSATONIC RIVER BASIN

249

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to current year.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE.--April 1979 to current year.

REMARKS.--Daily suspended-sediment record for this report will be published in the 1980 annual report.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
APR					APR				
05...	1600	3203	12	104	19...	0915	3407	14	129
06...	1415	3055	22	181	20...	0915	2989	12	97
07...	0940	2885	16	125	21...	0850	2847	11	85
08...	0950	2645	12	86	22...	0750	2633	8	57
09...	0845	2560	13	90	23...	0715	2452	9	60
09...	1100	2536	10	68	24...	0915	2168	11	64
09...	1330	2548	13	89	25...	0840	2078	11	62
09...	1630	2658	12	86	26...	0710	2056	8	44
10...	0830	3163	14	120	27...	0705	3003	21	170
11...	0925	3284	13	115	27...	0930	3042	17	140
12...	0840	3069	11	91	27...	1155	3016	25	204
13...	0835	2898	10	78	27...	1415	2950	21	167
14...	0830	2859	12	93	27...	1615	3311	19	170
14...	1050	3016	13	106	28...	0700	3718	18	181
14...	1320	3339	16	144	29...	0830	4929	40	532
14...	1620	3646	18	177	30...	0910	4861	26	341
15...	0755	4088	23	254	MAY				
16...	0845	4088	12	132	01...	0845	4274	17	196
16...	1315	4043	13	142	02...	0915	3561	15	144
17...	0845	4211	14	159					
18...	0830	3968	15	161					
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				
03...	0845	2989	25	202	18...	1500	1097	19	56
04...	0915	2989	17	137	19...	0900	1716	12	56
05...	1645	2732	15	111	19...	1500	1112	11	33
06...	0730	2572	16	111	20...	0900	1426	10	39
07...	0900	2146	13	75	21...	0830	1529	9	37
08...	0900	2168	7	41	22...	0815	1436	11	43
09...	0915	1696	7	32	23...	0830	1177	8	25
10...	0845	1747	7	33	23...	1400	866	11	26
11...	0815	1829	12	59	23...	1700	839	13	29
12...	1500	1201	11	36	24...	0645	1840	17	84
13...	0730	1568	11	47	24...	0845	1736	19	89
14...	0700	2045	11	61	24...	1130	1539	19	79
14...	1045	1616	11	48	24...	1500	1861	17	85
14...	1300	1539	20	83	24...	1900	3394	75	687
14...	1515	1473	10	40	25...	0715	6110	111	1830
14...	1715	1903	11	57	25...	1030	7396	145	2900
15...	0700	1979	14	75	25...	1330	8181	163	3600
16...	0830	1696	11	50	26...	1630	9168	114	2820
17...	0845	1925	11	57	27...	1600	7943	94	2020
18...	0900	1696	11	50					

HOUSATONIC RIVER BASIN

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--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)
MAY					JUN				
28...	0900	7069	74	1410	17...	0830	1210	5	16
29...	0915	6967	68	1280	18...	0730	1355	9	33
30...	0830	5310	38	545	19...	0830	963	5	13
31...	0715	4180	36	406	20...	0730	800	6	13
JUN					21...	0715	759	7	14
01...	0845	3463	33	309	22...	0700	759	7	14
02...	0900	2937	25	198	23...	0800	741	9	18
03...	0730	2621	24	170	24...	0900	679	6	11
04...	0730	2249	21	128	25...	0715	662	4	7.1
05...	0900	1872	16	81	26...	0900	563	4	6.1
06...	0715	1957	25	132	27...	0715	517	13	18
07...	0715	1914	22	114	28...	0730	839	14	32
08...	0730	1726	22	103	29...	0730	165	4	1.8
09...	0915	1463	14	55	30...	0930	713	7	13
10...	0800	1294	18	63	JUL				
11...	0715	1482	19	76	01...	0830	540	9	13
11...	1600	1089	20	59	02...	0715	741	11	22
12...	0700	1968	28	149	02...	1000	596	34	55
13...	0730	1809	20	98	03...	0830	718	26	50
15...	0700	1346	7	25	04...	0830	770	7	15
16...	0830	1152	6	19					
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)
JUL					JUL				
05...	0715	759	11	23	25...	0730	606	17	28
06...	0730	521	8	11	26...	0715	482	14	18
07...	0715	554	7	10	27...	0730	470	17	22
08...	0900	568	9	14	28...	0800	486	13	17
09...	0730	346	3	2.8	29...	0830	521	15	21
10...	0815	503	6	8.1	30...	0730	544	17	25
11...	0715	679	6	11	31...	0830	466	18	23
12...	0730	478	6	7.7	AUG				
13...	0715	482	6	7.8	01...	0730	470	19	24
14...	0800	306	8	6.6	02...	0730	554	20	30
15...	0815	466	4	5.0	03...	0730	445	17	20
15...	1615	458	3	3.7	04...	0800	491	15	20
16...	0730	324	5	4.4	05...	0900	470	18	23
17...	0815	320	4	3.5	06...	1030	474	15	19
18...	0830	298	5	4.0	07...	0930	470	16	20
19...	0700	839	13	29	08...	0730	288	99	77
20...	0700	963	11	29	09...	0715	288	18	14
21...	0800	646	34	59	10...	0700	254	9	6.2
22...	0930	470	14	18	11...	0700	470	15	19
23...	0715	635	12	21					
24...	0830	724	19	37					

HOUSATONIC RIVER BASIN

251

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--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				
11...	1100	478	11	14	26...	0730	410	11	12
11...	1400	491	20	27	27...	0815	657	8	14
12...	0700	568	19	29	28...	0730	544	7	10
12...	0900	582	12	19	29...	0715	601	10	14
12...	1200	713	19	37	30...	0730	606	9	15
13...	0830	1193	24	77	31...	0715	662	10	18
14...	0800	977	23	61	SEP				
15...	0730	970	44	115	01...	0830	690	9	17
16...	0730	735	16	32	02...	0715	521	7	9.8
17...	0730	554	12	18	03...	0900	521	10	14
18...	0800	508	14	19	04...	0815	508	12	16
18...	1100	549	18	27	05...	0715	503	8	11
18...	1500	554	15	22	06...	0715	508	11	15
19...	0900	747	13	26	06...	1400	794	44	94
20...	0800	690	12	22	07...	0745	730	29	57
21...	0745	668	14	25	08...	0900	2332	35	220
22...	0800	512	14	19	09...	0830	2045	25	138
23...	0730	554	150	224	10...	0830	1501	18	73
24...	0730	402	14	15	11...	0730	1152	16	50
25...	0900	503	7	9.5					
25...	1100	503	12	16					
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				
12...	0730	963	29	75	23...	0900	2067	26	145
13...	0745	753	20	41	24...	0830	1798	16	78
14...	0715	193	6	3.1	25...	0730	1473	17	68
15...	0830	491	8	11	26...	0715	1363	29	107
16...	0930	558	7	11	27...	0730	1144	17	53
17...	0830	839	8	18	28...	0715	963	14	36
18...	0700	291	119	93	29...	0800	1035	10	28
19...	0730	563	11	17	29...	1000	1035	9	25
20...	0715	163	20	8.8	30...	0800	1606	92	399
21...	0730	652	12	21	30...	1015	1399	20	76
22...	0730	1059	8	23					
22...	0930	1097	17	50					

HOUSATONIC RIVER BASIN

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.

WATER QUALITY DATA. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE ΔIN (DEG C)	TEMPER- ATURE ΔOUT (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL IMMED. PER 100 ML	COLI- FORM, FFCAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
16...	1520	920	315	9.3	13.0	12.0	25	2.0	12.2	113	170	48
NOV												
07...	1245	490	330	8.8	14.0	12.0	30	3.0	13.4	129	900	K6
DEC												
12...	1245	1040	295	7.2	3.0	.5	20	4.0	15.6	108	550	140
JAN												
10...	1435	5500	202	7.2	<-5.0	.5	25	8.0	13.7	45	4700	540
FEB												
07...	1445	1640	310	6.9	<-5.0	1.0	8	9.0	15.2	107	K16	K4
MAR												
04...	1315	17400	123	7.1	4.5	1.0	20	40	13.8	97	2600	1000
APR												
11...	1200	3490	235	6.4	13.0	5.0	10	5.0	9.7	76	290	20
MAY												
04...	1420	1840	240	7.1	27.0	16.0	10	5.0	11.7	118	940	24
JUN												
12...	1340	1480	235	6.9	17.0	18.0	5	1.0	10.6	125	8500	1200
JUL												
14...	1400	448	300	7.4	22.5	25.0	5	5.0	8.4	100	11000	96
AUG												
04...	1250	297	292	8.1	28.0	25.0	9	4.0	8.9	106	160	92
SEP												
19...	1330	958	300	8.4	18.0	18.0	11	4.0	10.0	105	2700	36

DATE	STEP- TOCOCI FECAL KF AGAP (COL S. 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- LINITY (MG/L AS CACO3)	CARRON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
16...	K2	--	--	--	--	--	--	--	17	--	169	.23
NOV												
07...	K1	--	--	--	--	--	--	--	16	--	177	.24
DEC												
12...	160	110	21	27	10	88	--	19	15	4.0	148	.20
JAN												
10...	800	--	--	--	--	--	--	--	17	--	104	.14
FEB												
07...	<1	--	--	--	--	--	--	--	14	--	159	.22
MAR												
04...	860	43	9	11	3.8	34	--	7.6	6.3	3.1	63	.09
APR												
11...	K8	--	--	--	--	--	--	--	11	--	124	.17
MAY												
04...	K4	110	18	27	9.3	88	--	12	10	2.4	136	.19
JUN												
12...	66	--	--	--	--	--	--	--	11	--	144	.20
JUL												
14...	K16	--	--	--	--	--	--	--	17	--	194	.26
AUG												
04...	K12	140	16	33	13	120	1.9	15	16	1.0	190	.26
SEP												
19...	24	--	--	--	--	--	--	--	16	--	177	.24

< 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

253

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DTS- 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 16...	420	188	--	--	.18	.02	--	.54	.56	.74	3.3
NOV 07...	234	190	--	--	.00	.00	--	.59	.59	.59	2.6
DEC 12...	432	156	--	--	.57	.06	--	.27	.33	.90	4.0
JAN 10...	1540	141	--	--	.46	.05	--	.29	.34	.80	3.5
FEB 07...	704	162	--	--	.69	.06	--	.16	.22	.91	4.0
MAR 08...	2960	194	--	--	.27	.11	--	.71	.82	1.1	4.8
APR 11...	1170	138	--	--	.39	.02	--	.21	.23	.62	2.7
MAY 08...	676	147	--	--	.20	.05	.06	.75	.80	1.0	4.4
JUN 12...	575	186	--	--	.32	.03	.04	.38	.41	.73	3.2
JUL 18...	256	209	--	--	.14	.05	.06	.65	.70	.84	3.7
AUG 08...	152	201	--	--	.01	.02	.02	.63	.65	.66	2.9
SEP 19...	458	192	.40	.00	.40	.03	.04	.30	.33	.73	3.2

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	COPPER, DTS- SOLVED (UG/L AS CU)	IRON, DTS- SOLVED (UG/L AS FE)	MANGA- NESE, DTS- SOLVED (UG/L AS MN)	ZINC, DTS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE HLIE ACTIVE SUR- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 16...	.06	--	3	--	--	10	6.0	.00	--	--
NOV 07...	.05	--	4	--	--	0	5.7	--	--	--
DEC 12...	.10	--	0	90	20	0	5.7	.00	4.66	.000
JAN 10...	.07	--	3	--	--	10	3.5	--	--	--
FEB 07...	.04	--	1	--	--	20	7.4	--	--	--
MAR 08...	.21	--	3	120	50	0	6.8	.00	2.25	.000
APR 11...	.03	--	5	--	--	20	4.3	--	--	--
MAY 08...	.02	.06	3	30	20	0	8.6	.00	8.30	.000
JUN 12...	.05	.15	3	--	--	10	3.5	--	--	--
JUL 18...	.04	.12	5	--	--	10	6.1	--	--	--
AUG 08...	.06	.18	3	20	6	20	6.0	.00	19.0	.000
SEP 19...	.04	.12	2	--	--	0	4.0	--	--	--

HOUSATONIC RIVER BASIN

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 7.1 mi (11.4 km) from Housatonic River.

DRAINAGE AREA.--60.6 mi² (157.0 km²).

PERIOD OF RECORD.--Water years 1971, 1972, 1974 to current year.

WATER QUALITY DATA. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CTIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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. PER 100 ML	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
15...	1700	35	475	7.6	14.0	10.5	40	2.0	7.8	70	3800	230
NOV												
07...	1500	36	440	7.6	14.5	11.0	50	8.0	8.1	73	3900	660
DEC												
12...	1415	116	430	7.3	4.0	2.0	25	7.0	13.2	95	350	25
JAN												
10...	1630	375	300	7.1	<-5.0	2.0	5	6.0	14.6	105	380	120
FEB												
07...	1610	52	85	6.7	<-5.0	.5	5	7.0	12.0	83	260	64
MAR												
04...	1515	220	225	7.3	4.0	5.0	20	10	11.9	93	820	64
APR												
11...	1400	196	300	6.2	13.0	9.5	15	3.0	9.0	79	250	82
MAY												
04...	1545	157	300	6.9	27.0	20.0	10	4.0	10.6	115	1400	44
JUN												
12...	1510	164	300	6.2	17.0	18.0	10	3.0	7.8	82	5600	740
JUL												
18...	1540	76	410	7.3	24.0	24.0	10	8.0	9.4	110	20000	2100
AUG												
08...	1505	26	500	7.1	28.0	23.0	11	5.0	7.8	91	19000	220
SEP												
19...	1500	33	440	7.6	19.5	19.0	3	4.0	7.2	77	1600	210

DATE	STPFP- TCCOCCI FFCAL, KF AGAP (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DTS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY AS (MG/L CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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												
16...	22	--	--	--	--	--	--	--	33	--	267	.36
NOV												
07...	22	--	--	--	--	--	--	--	38	--	281	.38
DEC												
12...	84	120	40	31	11	83	--	29	33	8.6	205	.28
JAN												
10...	210	--	--	--	--	--	--	--	28	--	155	.21
FEB												
07...	40	--	--	--	--	--	--	--	30	--	207	.28
MAR												
08...	36	61	21	16	5.1	40	--	17	19	6.2	109	.15
APR												
11...	<1	--	--	--	--	--	--	--	25	--	169	.23
MAY												
08...	24	110	34	30	9.3	79	--	22	25	4.9	172	.23
JUN												
12...	160	--	--	--	--	--	--	--	24	--	192	.26
JUL												
18...	200	--	--	--	--	--	--	--	35	--	285	.39
AUG												
08...	52	150	49	40	12	100	16	51	47	8.0	307	.42
SEP												
19...	84	--	--	--	--	--	--	--	40	--	293	.40

< 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

255

01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 16...	25.2	279	--	--	2.8	1.5	--	.60	2.1	4.9	22
NOV 07...	27.3	287	--	--	1.1	5.2	--	6.8	12	13	58
DEC 12...	64.2	224	--	--	1.1	1.6	--	.80	2.4	3.5	16
JAN 10...	157	182	--	--	.94	.50	--	.70	1.2	2.2	9.7
FEB 07...	29.1	226	--	--	1.3	1.4	--	.80	2.2	3.5	16
MAR 08...	241	140	--	--	.71	.38	--	.46	.44	1.6	6.9
APR 11...	89.4	178	--	--	.94	.69	--	.31	1.0	2.0	8.8
MAY 08...	72.9	199	--	--	1.2	.56	.68	.64	1.2	2.4	11
JUN 12...	85.0	226	--	--	1.3	.63	.76	.67	1.3	2.6	12
JUL 18...	27.7	313	--	--	2.3	.93	1.1	1.6	2.5	4.8	21
AUG 08...	21.6	337	--	--	3.6	1.7	2.1	1.3	3.0	6.6	29
SEP 19...	26.1	311	2.0	.37	2.4	2.7	3.3	1.0	3.7	6.1	27

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)	CARRON- ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUR- STANCF (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 16...	.81	--	11	--	--	20	7.1	.30	--	--
NOV 07...	2.0	--	280	--	--	30	16	--	--	--
DEC 12...	.42	--	9	140	100	20	8.7	.10	4.01	.000
JAN 10...	.23	--	10	--	--	10	6.0	--	--	--
FEB 07...	.49	--	10	--	--	10	6.0	--	--	--
MAR 08...	.14	--	13	90	30	10	10	.00	.490	.000
APR 11...	.28	--	8	--	--	20	8.7	--	--	--
MAY 08...	.38	1.2	9	70	60	0	5.3	.00	9.21	.000
JUN 12...	.43	1.3	10	--	--	10	5.0	--	--	--
JUL 18...	.69	2.1	11	--	--	10	12	--	--	--
AUG 08...	1.6	4.9	13	50	210	8	9.0	.20	5.54	.000
SEP 19...	1.1	3.4	14	--	--	0	5.6	--	--	--

HOUSATONIC RIVER BASIN

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 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1345	3.0	270	7.0	10.0	16.0	20	1.0	9.1	92	35	K2
NOV												
07...	1600	3.0	305	7.0	13.5	13.0	20	2.0	10.6	100	30	K2
DEC												
12...	1520	3.0	325	7.8	3.5	4.0	10	2.0	13.4	101	340	41
JAN												
12...	1545	3.0	205	7.0	<-5.0	.5	5	3.0	13.6	96	1200	150
FEB												
08...	1430	2.0	142	6.7	-1.0	1.0	10	2.0	13.8	97	24	K16
MAR												
09...	1025	3.0	125	7.1	7.5	1.5	20	20	11.6	88	4800	400
APR												
11...	1500	3.0	230	6.5	15.5	7.0	5	1.0	6.4	52	1500	45
MAY												
09...	1135	3.0	173	7.3	29.0	17.0	10	6.0	9.4	97	85	K1
JUN												
13...	1100	3.0	227	6.9	18.0	20.0	5	3.0	9.2	100	K340	K2
JUL												
18...	1645	3.0	235	6.1	24.0	24.0	5	6.0	7.0	82	1100	K2
AUG												
08...	1615	3.0	237	8.1	28.0	27.5	3	5.0	9.2	115	160	<1
SEP												
19...	1615	3.0	242	8.5	19.0	22.0	12	2.0	8.0	91	88	K2

DATE	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)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	<1	--	--	--	--	--	--	--	15	--	151	.21
NOV												
07...	<1	--	--	--	--	--	--	--	16	--	158	.21
DEC												
12...	25	120	25	30	12	99	--	18	18	2.5	163	.22
JAN												
12...	260	--	--	--	--	--	--	--	15	--	104	.14
FEB												
08...	K4	--	--	--	--	--	--	--	11	--	75	.10
MAR												
09...	160	43	10	11	3.8	33	--	8.6	7.3	3.3	67	.09
APR												
11...	K11	--	--	--	--	--	--	--	12	--	119	.16
MAY												
09...	<1	76	13	19	6.9	63	--	10	9.0	3.1	95	.13
JUN												
13...	K2	--	--	--	--	--	--	--	12	--	146	.20
JUL												
18...	<1	--	--	--	--	--	--	--	13	--	153	.21
AUG												
08...	<1	100	12	23	11	91	1.4	16	16	1.0	139	.19
SEP												
19...	K4	--	--	--	--	--	--	--	15	--	145	.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

257

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA* WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 17...	157	--	--	.43	.04	--	.37	.41	.84	3.7
NOV 07...	160	--	--	.40	.06	--	.34	.40	.80	3.5
DEC 12...	164	--	--	.58	.18	--	.24	.42	1.0	4.4
JAN 12...	108	--	--	.51	.07	--	.30	.37	.88	3.9
FEB 08...	83	--	--	.46	.04	--	.22	.26	.72	3.2
MAR 09...	117	--	--	.29	.18	--	.32	.50	.79	3.5
APR 11...	119	--	--	.37	.06	--	.20	.26	.63	2.8
MAY 09...	115	--	--	.04	.20	.24	.78	.98	1.0	4.5
JUN 13...	163	--	--	.29	.11	.13	.55	.67	.96	4.3
JUL 18...	156	--	--	.00	.00	.00	.66	.68	.68	3.0
AUG 08...	163	--	--	.05	.09	.11	.51	.60	.65	2.9
SEP 19...	168	.24	.00	.24	.01	.01	.64	.65	.89	3.9

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...	.04	--	4	--	--	10	7.6	.00	--	--
NOV 07...	.02	--	4	--	--	10	8.9	--	--	--
DEC 12...	.08	--	0	50	40	10	7.9	.00	7.74	.000
JAN 12...	.04	--	3	--	--	20	4.2	--	--	--
FEB 08...	.03	--	1	--	--	10	6.1	--	--	--
MAR 09...	.09	--	3	100	60	10	4.5	.00	1.67	.000
APR 11...	.04	--	2	--	--	10	3.0	--	--	--
MAY 09...	.03	.09	2	10	1	20	3.8	.00	17.3	.000
JUN 13...	.06	.18	3	--	--	10	4.0	--	--	--
JUL 18...	.02	.06	8	--	--	10	5.6	--	--	--
AUG 08...	.07	.21	4	10	2	20	5.6	.00	18.5	.000
SEP 19...	.04	.12	2	--	--	0	7.6	--	--	--

HOUSATONIC RIVER BASIN

01201930 MARSHIPAUG 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.--12 years, 21.1 ft³/s (0.598 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, 293 ft³/s (8.30 m³/s) Mar. 7, gage height, 4.03 ft (1.228 m); minimum, 0.71 ft³/s (0.020 m³/s) Nov. 16, gage height, 0.49 ft (0.149 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	3.4	1.1	9.7	57	26	24	54	30	3.1	3.2	11
2	8.4	3.4	.99	21	54	26	23	39	28	3.7	3.3	11
3	8.4	3.4	.99	25	51	26	28	35	25	3.9	3.7	10
4	8.7	3.4	2.2	13	46	22	28	34	23	3.9	4.0	10
5	8.4	3.4	1.8	4.0	41	13	29	28	22	3.9	3.7	11
6	8.7	3.4	1.2	6.0	38	50	28	23	19	3.9	3.7	15
7	8.4	3.4	1.1	5.0	36	238	25	21	16	3.4	3.5	25
8	8.1	3.4	1.5	7.5	34	210	21	19	14	3.4	3.4	15
9	8.1	3.4	5.1	6.6	33	126	26	17	12	3.4	3.3	10
10	17	3.4	3.6	5.6	30	97	29	16	11	3.4	3.2	11
11	47	2.2	2.7	5.0	28	125	28	14	12	3.4	3.8	12
12	58	.80	2.7	5.0	27	103	26	11	13	3.2	4.5	9.4
13	53	.80	2.5	5.1	24	72	25	12	9.7	3.2	5.6	7.8
14	48	.80	2.5	5.1	22	57	34	13	8.4	2.9	4.7	7.0
15	32	.80	2.5	5.2	21	50	37	12	7.8	3.2	4.2	24
16	5.6	.80	2.4	5.2	20	42	40	10	7.5	3.4	4.1	22
17	5.6	.99	2.7	5.3	18	37	40	8.7	7.0	3.6	4.0	27
18	5.6	1.4	2.7	7.4	18	35	36	8.4	7.8	3.4	6.0	40
19	14	.89	2.7	13	16	35	33	7.8	6.7	3.2	13	42
20	32	.89	2.7	25	16	34	27	7.3	4.9	3.1	13	42
21	24	.89	3.6	40	15	26	22	6.4	3.9	3.0	13	42
22	28	.89	3.4	38	14	11	19	6.7	3.6	2.9	12	42
23	27	.89	3.4	36	13	12	19	12	3.6	2.9	11	43
24	25	1.1	3.4	38	21	13	17	30	3.5	2.9	11	44
25	23	.99	6.1	66	27	22	16	61	3.4	3.2	14	44
26	22	.89	5.1	49	25	30	14	54	3.3	3.5	14	45
27	14	.89	5.1	67	26	32	60	48	3.2	4.0	12	47
28	3.6	.99	5.3	67	27	30	95	44	3.1	3.6	11	51
29	3.6	.99	5.1	63	---	29	108	41	3.0	3.4	9.8	52
30	3.6	1.5	5.1	63	---	28	78	43	3.0	3.3	9.9	50
31	3.4	---	5.3	60	---	28	---	35	---	3.2	12	---
TOTAL	575.6	54.39	96.58	775.7	798	1685	1035	771.3	318.4	104.5	227.6	822.2
MEAN	18.6	1.81	3.12	25.0	28.5	54.4	34.5	24.9	10.6	3.37	7.34	27.4
MAX	58	3.4	6.1	67	57	238	108	61	30	4.0	14	52
MIN	3.4	.80	.99	5.0	13	11	14	6.4	3.0	2.9	3.2	7.0
CAL YR 1978	TOTAL	5941.13	MEAN	16.3	MAX	69	MIN	.60				
WTR YR 1979	TOTAL	7264.27	MEAN	19.9	MAX	238	MIN	.80				

HOUSATONIC RIVER BASIN

259

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL 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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1430	24	147	7.2	10.5	9.0	25	1.0	13.0	112	130	53
NOV												
04...	1330	18	165	7.6	9.0	8.0	20	2.0	11.9	100	260	76
DEC												
14...	1450	108	140	7.3	.0	.0	10	2.0	14.7	101	140	31
JAN												
11...	1115	520	108	7.2	<-5.0	.5	5	3.0	14.4	100	1100	60
FEB												
04...	1515	200	121	6.6	-1.0	.5	10	4.0	14.2	99	72	31
MAR												
09...	0900	1450	75	7.1	6.0	2.5	20	5.0	13.7	98	1200	64
APR												
12...	1025	340	91	6.1	13.5	6.5	15	2.0	12.9	105	88	K4
MAY												
09...	1015	270	85	7.2	27.0	16.0	10	2.0	9.9	100	3100	K13
JUN												
13...	0930	155	91	6.7	18.0	14.0	10	1.0	10.8	104	3700	76
JUL												
19...	1400	14	122	7.7	28.0	27.0	10	4.0	10.0	123	2400	26
AUG												
09...	1510	24	132	7.8	26.0	27.0	7	2.0	9.5	118	45	21
SEP												
20...	1415	26	125	8.2	15.5	15.0	18	1.0	11.9	117	340	37

DATE	STREP- TOCOCCE FECAL, KF AGAP (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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	K2	--	--	--	--	--	--	--	12	--	80	.11
NOV												
04...	21	--	--	--	--	--	--	--	13	--	88	.12
DEC												
14...	20	46	15	11	4.6	31	--	13	12	5.5	79	.11
JAN												
11...	180	--	--	--	--	--	--	--	8.8	--	59	.08
FEB												
04...	K4	--	--	--	--	--	--	--	11	--	73	.10
MAR												
09...	44	21	2	5.0	2.1	19	--	6.9	6.5	3.3	51	.07
APR												
12...	K4	--	--	--	--	--	--	--	7.7	--	56	.08
MAY												
09...	K5	33	12	8.2	3.1	21	--	8.9	8.6	2.8	69	.09
JUN												
13...	45	--	--	--	--	--	--	--	7.6	--	60	.08
JUL												
19...	K14	--	--	--	--	--	--	--	11	--	81	.11
AUG												
09...	23	44	7	11	3.9	37	1.1	11	13	1.7	77	.10
SEP												
20...	K4	--	--	--	--	--	--	--	11	--	76	.10

< 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

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
OCT 17...	5.18	80	--	--	.01	.00	--	.22	.22	.23
NOV 08...	4.28	96	--	--	.09	.01	--	.21	.22	.31
DEC 14...	23.0	85	--	--	.35	.03	--	.28	.31	.66
JAN 11...	82.8	68	--	--	.32	.02	--	1.4	1.4	1.7
FEB 08...	39.4	73	--	--	.33	.05	--	.23	.28	.61
MAR 09...	200	58	--	--	.20	.07	--	.28	.35	.55
APR 12...	51.4	57	--	--	.18	.02	--	.25	.27	.45
MAY 09...	50.3	85	--	--	.08	.03	.04	.45	.48	.56
JUN 13...	25.1	78	--	--	.17	.02	.02	.28	.30	.47
JUL 19...	3.06	98	--	--	.03	.03	.04	.46	.49	.52
AUG 09...	4.99	80	--	--	.01	.01	.01	.29	.30	.31
SEP 20...	5.34	91	.19	.00	.19	.03	.04	.42	.45	.64

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	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)	CARRON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	1.0	.02	--	.00	2	--	--	10	6.9
NOV 08...	1.4	.01	--	.00	2	--	--	0	4.8
DEC 14...	2.9	.07	--	.05	0	90	30	0	3.7
JAN 11...	7.6	.03	--	--	4	--	--	10	4.9
FEB 08...	2.7	.02	--	.01	1	--	--	10	2.4
MAR 09...	2.4	.05	--	.01	1	70	20	0	4.7
APR 12...	2.0	.01	--	.00	2	--	--	10	7.4
MAY 09...	2.5	.01	.03	.01	3	50	8	0	3.7
JUN 13...	2.1	.03	.09	.00	2	--	--	20	4.3
JUL 19...	2.3	.02	.06	1.0	5	--	--	10	6.4
AUG 09...	1.4	.03	.09	.04	20	90	10	40	10
SEP 20...	2.8	.03	.09	.02	6	--	--	0	5.0

HOUSATONIC RIVER BASIN

261

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 17...	.20	6600	.6	.240	.000
NOV 08...	--	1400	24	3.08	.000
DEC 14...	.00	5000	8.4	5.01	.000
JAN 11...	--	820	5.5	2.78	.000
FEB 08...	--	300	8.2	.000	.000
MAR 09...	.00	520	1.0	1.60	.000
APR 12...	--	3400	.3	3.15	.000
MAY 09...	.00	3300	.5	2.61	.000
JUN 13...	--	2500	.5	.000	.000
JUL 19...	--	11000	2.1	3.92	.000
AUG 09...	.00	1000	2.3	.000	.000
SEP 20...	--	2200	18	.000	.000

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 17.78 1430	NOV 8.78 1330	DEC 14.78 1450	JAN 11.79 1115	FEB 8.79 1515	MAR 9.79 0900				
TOTAL CELLS/ML	6600	1400	5000	820	300	520				
DIVERSITY: DIVISION	0.8	1.6	1.1	0.9	1.2	1.0				
..CLASS	0.8	1.6	1.1	0.9	1.2	1.0				
..ORDER	1.6	1.7	1.1	1.0	1.5	1.8				
..FAMILY	1.8	2.5	1.5	1.2	1.7	2.2				
....GENUS	2.2	2.7	1.6	1.3	1.7	2.2				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHAPACIACEAE										
...SCHROEDERIA	--	-	--	-	* 0	--	--	-	--	-
...COELASTHACEAE										
...COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
...PEODIATRUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
...ANKISTHODESMUS	73	1	69	5	--	-	5	1	--	-
...CLOSTERIOPSIS	--	-	--	-	--	-	--	-	43	8
...DICTYOSPHAERIUM	--	-	55	4	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	120	2	11	1	--	-
...SELINASTRUM	* 0	--	--	-	--	-	--	-	--	-
...TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...SCENEDSMACFAE										
...ACTINASTRUM	--	-	--	-	58	1	--	-	--	-
...CRUCIGENTIA	--	-	--	-	--	-	30	10	--	-
...SCENEDSMUS	850	13	390#	27	390	8	22	3	--	-
...TETRAPOALES										
...COCCOMYXACEAE										
...ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	--	-	8	1	10	3	--	-
...ZYGNEMATALES										
...DESMIDIACEAE										
...COSMARIIUM	--	-	--	-	--	-	--	-	--	-
...FUASTRUM	--	-	--	-	* 0	--	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCAEAE										
...CYCLOTELLA	* 0	14	1	--	8	1	10	3	--	-
...MELOSIIRA	--	-	--	-	* 0	--	--	-	--	-
..PENNIALES										
...ACHNANTHACEAE										
...ACHNANTHES	* 0	28	2	160	3	--	--	-	--	-
...COCCONFIS	--	-	14	1	5	1	--	-	--	-
...RHODICOSPHEAIA	--	-	--	-	* 0	--	--	-	--	-
...CYMBELLACEAE										
...AMPHORA	--	-	--	-	* 0	--	--	-	--	-
...CYMBELLA	--	-	42	3	5	1	--	-	29	6
...EPITHEMIA	--	-	--	-	* 0	--	--	-	--	-
...DIATOMACEAE										
...DIATOMA	--	-	170	12	--	-	--	-	--	-
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	--	-	24	3	--	-	--	-
...FRAGILARIA	--	-	--	-	43	1	25	8	--	-
...SYNEDRA	--	-	14	1	* 0	--	--	-	--	-
...GOMPHONEMATACEAE										
...GOMPHONEMA	--	-	--	-	* 0	--	--	-	--	-
...MERIDIONACEAE										
...MERIDION	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
...CALONEIS	--	-	--	-	--	-	--	-	--	-
...NAVICULA	41	1	83	6	100	2	27	3	15	5
...NITZSCHIA	93	1	28	2	320	6	--	-	10	3
...NITZSCHIA										
...SURIARELLACEAE										
...SURIARELLA	--	-	--	-	--	-	--	-	--	-
...TARFELLARIACEAE										
...TARFELLARIA	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
...CHROOMONAS	--	-	--	-	* 0	--	--	-	14	3

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

HOUSATONIC RIVER BASIN

263

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	OCT 17.78 1430	NOV 8.78 1330	DEC 14.78 1450	JAN 11.79 1115	FEB 8.79 1515	MAR 9.79 0900
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	930	14	--	--	--	200# 39
...HORMOGONIALES						
...NOSTOCACEAE						
....ANABAENA	150	2	--	--	--	--
...OSCILLATORIACEAE						
....OSCILLATOPIA	2900#	44	530#	37	3700#	74
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	--	--	29	--	59
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....GOMPHOSPHERIA	1500#	22	--	--	--	--
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	--	14	1	--	--

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

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

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	APR 12.79 1025	MAY 9.79 1015	JUN 13.79 0930	JUL 19.79 1400	AUG 9.79 1510	SEP 20.79 1415				
TOTAL CELLS/ML	3400	3300	2500	11000	1000	2200				
DIVERSITY: DIVISION	0.4	1.1	1.1	1.0	0.5	0.4				
..CLASS	0.4	1.1	1.1	1.0	0.5	0.4				
...ORDER	0.4	1.3	1.2	1.1	0.6	0.4				
...FAMILY	1.2	2.7	1.9	2.3	2.2	2.1				
...GENUS	1.2	3.0	2.2	2.7	2.9	2.3				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHAPACIACEAE										
...SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COFLASTRACEAE										
...COFLASTRUM	--	-	--	-	250	2	130	13	530#	24
...HYDRODICTYACEAE										
...PENIACSTRUM	--	-	--	-	540	5	100	10	190	8
...OOCYSTACEAE										
...ANKISTRODESMUS	100	3	* 0		540	5	100	10	72	3
...CLOSTERIOPSIS	--	-	* 0		--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	800#	32	--	-	170	8
...KIPCHNEPIELLA	--	-	--	-	52	2	1000	9	14	1
...OOCYSTIS	--	-	--	-	170	2	--	-	--	-
...SELENASTRUM	--	-	--	-	340	3	90	9	--	-
...TETRAEDRON	--	-	--	-	--	-	39	4	--	-
...SCENEDESMACEAE										
...ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
...CRUCIGENIA	--	-	--	-	77	3	--	-	--	-
...SCENFDESMUS	--	-	84	3	77	3	5300#	50	330#	33
...TETRAPODALES										
...COCCOMYXACEAE										
...ELAKATOTHRIX	--	-	84	3	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	28	1	--	-	170	2	13	1
...ZYGEMATALES										
...DESMIDIACEAE										
...COSMARPIUM	--	-	* 0		--	-	--	-	--	-
...EUASTRUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCACEAE										
...CYCLOTELLA	43	1	28	1	13	1	130	1	--	-
...MELOSIWA	* 0		--	-	--	-	* 0		--	-
...PENNALS										
...ACHNANTHACEAE										
...ACHNANTHUS	--	-	--	-	13	1	* 0		43	2
...COCCONEIS	* 0		--	-	--	-	* 0		--	-
...RHOTICOSPHEA	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
...AMPHORA	--	-	--	-	--	-	--	-	--	-
...CYMBELLA	58	2	380	11	--	-	--	-	29	1
...EPITHEMIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
...DIATOMA	--	-	630#	19	--	-	--	-	--	-
...FRAGILARIACEAE										
...ASTERIONELLA	200	5	--	-	--	-	--	-	--	-
...FRAGILARIA	--	-	640#	19	--	-	--	-	29	1
...SYNEDRA	--	-	400	12	--	-	--	-	--	-
...GOMPHONEMACEAE										
...GOMPHONEMA	--	-	42	1	--	-	130	1	14	1
...MERIDIONACEAE										
...MERIDION	29	1	--	-	--	-	--	-	--	-
...NAVICULACEAE										
...CALONETIS	--	-	* 0		--	-	--	-	--	-
...NAVICULA	58	2	56	2	26	1	--	-	29	1
...NITZSCHIA										
...NITZSCHIA	100	3	98	3	13	1	* 0		14	1
...SURIPELLACEAE										
...SURIPELLA	--	-	* 0		--	-	--	-	--	-
...TABELLARIACEAE										
...TABELLARIA	58	2	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
...CHROMONAS	--	-	--	-	--	-	--	-	--	-

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

HOUSATONIC RIVER BASIN

265

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	APR 12.79 1025		MAY 9.79 1015		JUN 13.79 0930		JUL 19.79 1400		AUG 9.79 1510		SEP 20.79 1415	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	13	1	540	5	90	9	--	-
...HORMOGONALS												
...NOSTOCEAEF												
....ANABAFNA	--	-	--	-	310	12	84	1	--	-	--	-
...OSCILLATORIAEAF												
....OSCILLATORIA	3200#	82	800#	24	1000#	41	--	-	--	-	--	-
...RIVULARIACEAE												
...PAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
...CHPOOCOCCALES												
...CHROOCOCCACEAE												
...GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALS												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	480	8	--	-	14	1

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

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

01203600 NONEWAUG RIVER AT MINORTOWN, CT

LOCATION.--Lat 41°34'32", long 73°10'45", Litchfield County, Hydrologic Unit 01100005, on right bank 1,000 ft (305 m) downstream from bridge by U.S. Highways 6 and 202 at Minortown, and 2.5 mi (4.0 km) northeast of Woodbury.

DRAINAGE AREA.--17.7 mi² (45.8 km²).

PERIOD OF RECORD.--September 1962 to September 1976; October 1978 to September 1979 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 354.69 ft (108.110 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lockwood Reservoir. Diversion for municipal supply of town of Watertown.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1962 to September 1969).--15 years, (1963-1976, 1979) 31.0 ft³/s (0.878 m³/s), 23.78 in/yr (604 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s (135 m³/s) Sept. 26, 1975, gage height, 8.35 ft (2.545 m), from rating curve extended above 780 ft³/s; minimum, 0.23 ft³/s (0.065 m³/s) Oct. 10, 1970, gage height, 0.34 ft (0.104 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 13.2 ft (4.02 m) from floodmarks, discharge, about 10,000 ft³/s (283 m³/s), estimated from a comparison of unit runoff of nearby streams.

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)
Jan. 2	2200	680 19.3	3.23 0.984	Feb. 24	0800	1,700 48.1	4.85 1.478
8	0230	1,240 35.1	4.16 1.268	Mar. 6	1100	1,390 39.4	4.40 1.341
21	1130	1,160 32.8	4.03 1.228	Apr. 27	1500	1,610 45.6	4.72 1.439
25	-	*3,140 88.9	*6.63 2.021	May 25	1200	1,200 34.0	4.10 1.250

Minimum discharge, 1.6 ft³/s (0.045 m³/s) July 16, 17, gage height, 0.55 ft (0.167 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.5	18	192	42	72	37	68	26	4.9	3.6	2.1
2	2.4	4.0	12	357	39	59	37	55	21	5.5	2.8	2.7
3	2.7	3.8	12	191	36	60	50	49	20	4.5	4.0	7.4
4	2.8	3.8	40	75	32	53	43	63	20	3.8	5.8	5.5
5	4.0	3.8	36	51	28	96	50	45	21	3.8	3.0	3.8
6	6.4	3.8	22	46	25	895	35	34	23	3.6	3.6	6.4
7	1.4	3.6	18	74	23	382	29	33	17	3.4	3.4	21
8	11	3.6	19	538	20	146	26	30	14	3.2	3.0	9.6
9	7.6	3.6	101	125	18	90	52	27	13	3.0	2.3	7.3
10	6.4	3.4	55	71	16	128	67	25	12	2.7	12	7.0
11	5.1	3.4	42	56	15	263	45	22	14	2.7	14	5.8
12	5.5	3.4	32	52	14	94	36	20	16	2.5	42	5.2
13	5.0	4.2	25	44	13	68	31	27	10	2.2	36	5.0
14	5.4	4.0	24	112	12	68	77	27	8.9	1.8	12	5.2
15	7.3	3.6	22	55	11	56	67	26	7.9	2.3	8.6	6.1
16	5.5	3.6	21	43	10	49	74	20	7.0	2.2	7.0	4.2
17	5.0	3.6	21	41	9.5	43	65	17	6.4	5.2	5.8	4.2
18	4.7	15	25	39	9.2	39	47	17	7.0	4.7	7.9	4.0
19	1.7	7.3	48	37	8.8	37	42	17	5.8	5.0	14	3.6
20	1.7	5.2	38	35	8.5	35	35	16	4.7	4.2	8.9	3.0
21	5.5	4.2	33	546	36	33	31	14	4.2	3.8	6.4	16
22	5.0	4.0	28	220	201	33	28	12	4.2	3.6	5.2	83
23	5.0	4.0	25	85	71	32	26	32	6.1	4.0	4.5	23
24	4.5	4.3	26	200	662	35	23	68	4.5	3.8	5.0	14
25	4.5	8.2	33	1000	332	67	22	369	4.0	3.8	6.4	11
26	5.0	5.5	23	500	181	45	28	149	3.6	4.2	5.2	9.3
27	22	4.7	22	250	74	36	583	68	3.2	6.1	5.0	7.9
28	8.6	5.5	22	120	119	31	247	54	3.0	4.0	3.6	7.6
29	5.8	6.4	19	90	---	36	178	49	3.0	3.8	3.2	13
30	4.7	27	18	55	---	34	92	37	4.0	4.0	3.6	10
31	4.7	---	17	47	---	36	---	33	---	4.0	3.0	---
TOTAL	258.6	170.0	897	5347	2066.0	3151	2203	1527	314.5	120.3	250.8	372.0
MFAN	8.34	5.67	28.9	172	73.8	102	73.4	49.3	10.5	3.88	8.09	12.4
MAX	69	27	101	1000	662	895	583	369	26	8.9	42	83
MIN	2.7	3.4	12	35	8.5	31	22	12	3.0	1.8	2.3	2.1
CFSM	.47	.32	1.63	9.72	4.17	5.76	4.15	2.79	.59	.22	.46	.70
IN.	.54	.36	1.89	11.24	4.34	6.62	4.63	3.21	.66	.25	.53	.78
WTR YR 1979	TOTAL	16677.2	MFAN	45.7	MAX	1000	MIN	1.8	CFSM	2.54	IN	35.05

01203600 NONAWAUG RIVER AT MINORTOWN, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1966, November 1978 to August 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, IM-MF (COLS./ 100 ML)
NOV 06...	1500	3.8	160	6.5	20.0	12.0	--	1.0	15.6	144	620	500
MAY 14...	1240	26	103	7.5	16.0	15.0	--	1.0	10.4	102	1200	620
AUG 01...	0545	--	120	7.1	--	22.3	5	--	8.6	--	--	--

DATE	STREP- TOCOC- FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAP- RONATE (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	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 06...	37	39	18	10	3.5	9.0	32	.6	2.1	21	16
MAY 14...	100	29	10	7.6	2.5	7.2	34	.6	1.4	19	14
AUG 01...	--	--	--	--	--	--	--	--	--	--	--

DATE	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 CONSTIT- UENTS, 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)	ARSENIC DIS- SOLVED (MG/L AS AS)	BARIUM, DIS- SOLVED (MG/L AS BA)	CADMIUM DIS- SOLVED (MG/L AS CD)
NOV 06...	17	.1	5.6	80	--	.11	.42	.44	0	0	1
MAY 14...	12	.1	7.2	70	66	.10	4.91	.64	0	0	1
AUG 01...	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	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)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 06...	0	8	--	--	--	<.5	0	0	20	21	.3
MAY 14...	10	3	100	1	10	<.5	0	0	0	3.2	.2
AUG 01...	--	--	50	--	30	--	--	--	--	--	--

DATE	CYANIDE TOTAL (MG/L AS CN)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)	PCB, DIS- SOLVED (UG/L)	ALDRIN, DIS- SOLVED (UG/L)	CHLOR- DANE, DIS- SOLVED (UG/L)	DDD, DIS- SOLVED (UG/L)	DDE, DIS- SOLVED (UG/L)	DDT, DIS- SOLVED (UG/L)	DI- ELDRIN, DIS- SOLVED (UG/L)	ENDRIN, DIS- SOLVED (UG/L)
NOV 06...	.00	.00	.0	.00	.0	.00	.00	.00	.00	.00
MAY 14...	--	--	.0	.00	.0	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR, DIS- SOLVED (UG/L)	HEPTA- CHLOR EPOXIDE DIS- SOLVED (UG/L)	LINDANE DIS- SOLVED (UG/L)	MIREX, DIS- SOLVED (UG/L)	TOX- APHENE, DIS- SOLVED (UG/L)	2,4-D, DIS- SOLVED (UG/L)	2,4,5-T DIS- SOLVED (UG/L)	SILVEX, DIS- SOLVED (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 06...	.00	.00	.00	.00	0	.00	.00	.00	--	--
MAY 14...	.00	.00	.00	.00	0	--	--	--	2	.14

HOUSATONIC RIVER BASIN

01203805 WEEKEEPEEMEE RIVER NEAR HOTCHKISSVILLE, CT

LOCATION.--Lat 41°33'26", long 73°12'57", Litchfield County, Hydrologic Unit 01100005, on downstream left bank at Jacks Bridge Road, 500 ft (150 m) upstream from mouth, and 1 mi (1.6 km) north of Woodbury.

DRAINAGE AREA.--26.8 mi² (69.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-stage recorder. Datum of gage is 249.55 ft (76.063 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except for period of no gage-height record Feb. 16 to Apr. 17, which is poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a discharge of about 12,000 ft³/s (about 340 m³/s), by comparison of peak runoffs for Sprain Brook and Nonewaug River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 2,000 ft³/s (about 56.6 m³/s) Jan. 25, gage height, 8.37 ft (2.551 m) backwater from Nonewaug River; minimum, 0.4 ft³/s (0.011 m³/s) Aug. 10, gage height, 1.24 ft (0.378 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	5.4	20	208	51	200	65	130	51	19	1.3	3.5
2	2.2	5.3	15	382	45	120	65	100	43	12	1.2	4.0
3	2.2	5.2	15	214	40	100	90	90	43	10	1.1	13
4	2.5	5.2	38	122	35	100	80	110	45	7.6	1.8	9.0
5	3.0	5.5	39	60	33	150	90	85	49	7.2	2.0	8.0
6	60	5.8	25	75	30	1000	70	70	52	6.2	1.2	66
7	8.0	5.8	20	90	27	600	55	60	43	5.6	1.1	49
8	4.0	5.5	20	688	25	350	50	55	35	5.6	.81	18
9	3.2	5.5	98	190	22	200	90	50	29	4.9	.60	13
10	2.8	5.3	73	144	20	250	110	45	30	4.3	1.8	13
11	2.5	5.2	60	110	18	400	85	40	32	3.8	13	8.5
12	2.9	5.2	45	85	17	250	75	40	35	3.5	43	9.2
13	3.5	4.9	39	80	16	150	50	50	27	3.3	46	5.6
14	4.1	4.9	29	156	15	120	130	49	24	3.1	17	19
15	4.4	4.9	25	84	14	100	120	48	22	4.6	14	14
16	3.7	4.9	21	68	13	90	130	40	20	5.6	11	8.1
17	3.2	5.0	27	65	12	80	100	35	18	4.2	10	6.7
18	3.0	17	45	62	11	75	73	33	18	6.2	12	11
19	2.9	12	42	60	10	65	68	35	15	5.9	25	7.8
20	4.1	9.3	40	60	10	65	69	34	13	3.8	20	4.0
21	3.6	7.9	36	560	20	60	61	32	12	2.9	11	6.3
22	3.5	8.1	34	161	100	60	56	29	11	2.4	9.5	88
23	3.1	7.8	31	58	50	60	54	71	11	2.4	8.0	29
24	2.9	9.7	38	145	700	60	51	202	10	2.4	9.0	19
25	2.9	12	40	1330	500	70	49	585	9.2	1.8	11	16
26	3.1	12	35	137	247	120	61	198	8.4	1.8	9.0	16
27	12	10	32	101	81	70	438	130	8.0	2.2	8.0	14
28	8.4	10	30	81	130	50	300	90	7.6	2.2	6.5	14
29	6.4	9.8	28	74	---	65	250	78	7.6	1.8	5.5	23
30	5.4	24	27	63	---	65	150	70	9.6	1.8	6.0	17
31	5.5	---	27	55	---	65	---	61	---	1.8	4.5	---
TOTAL	181.4	239.1	1094	5788	2292	5210	3135	2745	738.4	154.9	311.91	532.7
MEAN	5.85	7.97	35.3	187	81.9	168	105	88.5	24.6	5.00	10.1	17.8
MAX	60	24	98	1330	700	1000	438	585	52	19	46	88
MIN	2.2	4.9	15	55	10	50	49	29	7.6	1.8	.60	3.5
CFSM	.22	.30	1.32	6.98	3.06	6.27	3.92	3.30	.92	.19	.38	.66
IN.	.25	.33	1.52	8.03	3.18	7.23	4.35	3.81	1.02	.22	.43	.74
WTR YR 1979	TOTAL	22422.41	MEAN	61.4	MAX	1330	MIN	.60	CFSM	2.29	IN	31.12

C1203805 WEEKEEPEEMEE RIVER AT HOTCHKISSVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year November 1978 to August 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 06...	1330	5.9	130	7.2	25.0	10.5	--	1.0	16.2	144	160	19
MAY 14...	1330	47	87	7.4	17.5	15.0	--	1.0	11.0	108	1100	180
AUG 01...	0630	--	110	7.2	--	22.3	5	--	7.9	--	--	--

DATE	STREP- TOCOCCI FFCAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, MESS, 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	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 06...	26	34	15	9.2	2.6	6.7	29	.5	1.8	19	14
MAY 14...	100	24	8	6.6	1.8	5.0	30	.4	1.0	16	13
AUG 01...	--	--	--	--	--	--	--	--	--	--	--

DATE	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 CONSTITU- ENTS, 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)	ARSENIC DIS- SOLVED (MG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)
NOV 06...	12	.1	4.8	65	--	.09	1.04	.21	0	0	1
MAY 14...	7.6	.0	6.9	52	53	.07	6.60	.24	0	0	1
AUG 01...	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	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)	SILVER, DIS- SOLVED (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 06...	0	0	--	--	--	<.5	0	0	10	12	.2
MAY 14...	10	2	80	0	7	<.5	0	0	0	4.7	.2
AUG 01...	--	--	30	--	10	--	--	--	--	--	--

DATE	CYANIDE TOTAL (MG/L AS CN)	METHY- LFENE RIIE ACTIVE SUB- STANCE (MG/L)	PCB, DIS- SOLVED (UG/L)	ALDRIN, DIS- SOLVED (UG/L)	CHLOR- DANE, DIS- SOLVED (UG/L)	DDO, DIS- SOLVED (UG/L)	DDE, DIS- SOLVED (UG/L)	DDT, DIS- SOLVED (UG/L)	DI- ELDRIN, DIS- SOLVED (UG/L)	ENDRIN, DIS- SOLVED (UG/L)
NOV 06...	.00	.00	.0	.00	.0	.00	.00	.00	.00	.00
MAY 14...	--	--	.0	.00	.0	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR, DIS- SOLVED (UG/L)	HEPTA- CHLOR EPOXIDE DIS- SOLVED (UG/L)	LINDANE DIS- SOLVED (UG/L)	MIREX, DIS- SOLVED (UG/L)	TOX- APHENE, DIS- SOLVED (UG/L)	2,4-D, DIS- SOLVED (UG/L)	2,4,5-T DIS- SOLVED (UG/L)	SILVEX, DIS- SOLVED (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 06...	.00	.00	.00	.00	0	.00	.00	.00	--	--
MAY 14...	.00	.00	.00	.00	0	.00	.00	.00	3	.38

HOUSATONIC RIVER BASIN

01204000 POMPERAUG RIVER AT SOUTHURY, 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).

WATER-DISCHARGE RECORDS

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).--47 years, 128 ft³/s (3.624 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) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)				
Jan. 8	0800	2110	59.8	7.76	2.365	Mar. 6	1600	3440	97.4	9.43	2.874
Jan. 21	1700	2700	76.5	8.50	2.591	Apr. 27	2000	2480	70.2	8.22	2.505
Jan. 25	0600	*7960	225	*14.26	4.346	May 25	1730	2040	57.8	7.68	2.341

Minimum discharge, 10.0 ft³/s (0.283 m³/s) Aug. 10, gage height, 2.36 ft (0.719 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	25	58	325	232	323	171	362	163	64	13	17
2	17	23	44	770	176	284	167	310	139	43	13	16
3	16	23	43	746	159	270	229	275	130	35	25	28
4	16	22	85	275	159	254	206	323	136	30	40	27
5	17	21	116	203	125	348	227	249	130	28	22	21
6	145	21	74	174	120	2210	180	215	167	26	16	227
7	60	20	59	189	113	1500	153	193	120	24	14	116
8	40	20	58	1410	111	627	139	178	102	23	12	59
9	32	20	250	512	101	450	211	163	92	22	11	43
10	28	20	222	292	94	463	307	151	88	20	12	36
11	27	20	121	212	92	872	220	143	85	20	46	31
12	25	19	95	167	86	473	180	125	110	19	143	27
13	23	19	89	180	89	359	161	149	79	18	185	26
14	24	20	83	347	70	351	315	151	70	16	66	26
15	26	20	70	214	57	313	313	155	62	20	46	31
16	24	20	64	160	58	254	304	123	57	24	36	25
17	22	20	79	126	55	241	307	105	53	24	29	23
18	21	41	72	131	56	224	232	99	53	24	31	21
19	22	35	53	102	57	206	202	107	47	24	55	20
20	25	28	55	119	56	198	180	99	41	19	42	18
21	23	26	126	1310	48	187	163	90	39	18	33	36
22	22	25	105	953	75	178	149	81	37	18	28	348
23	21	24	75	376	61	178	141	134	37	17	24	125
24	20	30	66	486	850	183	130	339	36	17	25	76
25	20	35	85	3600	900	307	123	1050	33	20	29	59
26	21	28	86	835	715	227	143	639	31	18	27	51
27	49	25	71	566	342	189	1400	359	28	19	23	44
28	37	26	55	496	374	167	895	320	28	18	22	40
29	30	28	58	389	---	187	711	295	30	16	24	50
30	26	63	58	323	---	183	453	229	39	16	25	52
31	25	---	59	281	---	171	---	195	---	14	20	---
TOTAL	921	767	2634	16269	5441	12377	8712	7406	2262	714	1145	1719
MEAN	29.7	25.6	85.0	525	194	399	290	239	75.4	23.0	36.9	57.3
MAX	145	63	250	3600	900	2210	1400	1050	167	64	185	348
MIN	16	19	43	102	48	167	123	81	28	14	11	16
CFSM	.40	.34	1.13	7.00	2.59	5.32	3.87	3.19	1.01	.31	.49	.76
IN.	.46	.38	1.31	8.07	2.70	6.14	4.32	3.67	1.12	.35	.57	.85

CAL YR 1978	TOTAL	47228	MEAN 129	MAX 2630	MIN 13	CFSM 1.72	IN 23.42
WTR YR 1979	TOTAL	60367	MEAN 165	MAX 3600	MIN 11	CFSM 2.20	IN 29.94

PERIOD OF RECORD.--Water year 1961, 1963, 1965-1974, November 1978 to August 1979 (discontinued).

WATER TEMPERATURES: October 1960 to September 1961.

WATER TEMPERATURES: Maximum, 26.5°C, July 24, 26, 27, Aug. 12-14, 1961; minimum, freezing point on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

01204000 POMPERAUG RIVER AT SOUTHBURY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 06...	0	0	2	0	2	--	--	--	<.5	0	0	0
MAY 14...	0	0	0	20	2	110	0	20	.5	0	0	0
AUG 01...	--	--	--	--	--	50	--	20	--	--	--	--

[illegible][illegible]

HOUSATONIC RIVER BASIN

273

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 1978 TO SEPTEMBER 1979

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT 17...	1145	3.0	275	7.4	7.0	14.0	20	2.0	9.2	88	80	K5
NOV 08...	1140	3.0	350	7.4	10.0	11.0	35	3.0	8.4	76	120	53
DEC 14...	1300	3.0	280	7.6	3.0	6.0	10	3.0	12.9	93	28	20
JAN 11...	1320	3.0	170	7.0	<-5.0	1.5	25	9.0	13.8	98	6300	540
FEB 08...	1315	3.0	220	6.9	.0	1.0	10	4.0	13.1	92	K3	K1
MAR 09...	1500	3.0	110	7.3	8.5	2.0	20	20	14.3	104	2900	200
APR 12...	0850	3.0	190	6.5	13.5	7.0	10	2.0	13.0	106	84	K4
MAY 14...	1100	3.0	190	7.1	16.5	17.0	10	6.0	9.1	94	100	K12
JUN 15...	0845	3.0	185	6.7	20.0	18.0	5	4.0	6.7	71	1200	K4
JUL 19...	1245	3.0	225	7.5	25.0	24.0	5	7.0	7.8	91	2500	33
AUG 10...	1425	3.0	270	7.0	31.0	26.0	6	3.0	5.1	62	40	K9
SEP 20...	1240	3.0	210	7.5	11.5	20.0	15	4.0	5.9	64	22	K14

DATE	STREP- TOCOCCL 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLOR- IDE, 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...	<1	--	--	--	--	--	--	--	16	--	152	.21
NOV 08...	36	--	--	--	--	--	--	--	19	--	171	.23
DEC 14...	44	110	24	27	11	89	--	18	18	12	143	.19
JAN 11...	720	--	--	--	--	--	--	--	12	--	94	.13
FEB 08...	K2	--	--	--	--	--	--	--	14	--	114	.16
MAR 09...	84	39	8	9.9	3.5	31	--	7.6	6.5	3.2	59	.08
APR 12...	<1	--	--	--	--	--	--	--	10	--	107	.15
MAY 14...	K4	88	22	23	7.4	66	--	11	9.8	3.1	115	.16
JUN 15...	15000	--	--	--	--	--	--	--	9.7	--	128	.17
JUL 19...	K9	--	--	--	--	--	--	--	13	--	145	.20
AUG 10...	K6	110	14	29	10	100	20	14	17	1.8	175	.24
SEP 20...	K1	--	--	--	--	--	--	--	13	--	137	.19

< 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 1978 TO SEPTEMBER 1979

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										
17...	164	--	--	.46	.08	--	.33	.41	.87	3.9
NOV										
08...	209	--	--	.40	.13	--	.40	.53	.93	4.1
DEC										
14...	151	--	--	.51	.19	--	.25	.44	.95	4.2
JAN										
11...	109	--	--	.47	.11	--	.23	.34	.81	3.6
FEB										
08...	124	--	--	.47	.08	--	.19	.27	.74	3.3
MAR										
09...	96	--	--	.28	.22	--	.57	.79	1.1	4.7
APR										
12...	111	--	--	.39	.08	--	.19	.27	.66	2.9
MAY										
14...	130	--	--	.19	.10	.12	.21	.31	.50	2.2
JUN										
15...	145	--	--	.32	.11	.13	.33	.44	.76	3.4
JUL										
19...	149	--	--	.21	.08	.10	.74	.82	1.0	4.6
AUG										
10...	160	--	--	.22	.20	.24	.37	.57	.79	3.5
SEP										
20...	153	.45	.00	.45	.04	.05	.39	.43	.88	3.9

DATE	PHOS- PHOSUS, TOTAL (MG/L AS P)	PHOS- PHOSUS, 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...	.05	--	4	--	--	0	6.7	.00	--	--
NOV										
08...	.05	--	3	--	--	0	7.2	--	--	--
DEC										
14...	.07	--	0	70	10	0	2.7	.00	2.74	.000
JAN										
11...	.07	--	4	--	--	10	5.6	--	--	--
FEB										
08...	.04	--	3	--	--	10	3.2	--	--	--
MAR										
09...	.10	--	3	150	100	0	4.7	.00	.000	.000
APR										
12...	.04	--	2	--	--	10	2.6	--	--	--
MAY										
14...	.03	.09	2	30	20	10	6.9	.00	5.76	.000
JUN										
15...	.04	.12	2	--	--	10	7.4	--	--	--
JUL										
19...	.06	.18	5	--	--	10	6.6	--	--	--
AUG										
10...	.04	.25	5	20	5	9	8.5	.00	21.7	.000
SEP										
20...	.07	.21	3	--	--	0	4.3	--	--	--

HOUSATONIC RIVER BASIN

275

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, 29.0°C July 25-27; minimum daily, 0.0°C on many days during winter months.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	---	8.0	2.0	1.0	1.0	8.5	14.0	17.0	22.0	28.0	26.0
2	19.0	14.0	8.0	2.0	1.0	1.0	8.0	---	17.5	22.0	28.0	25.0
3	19.0	14.0	7.0	2.0	.0	2.0	8.0	14.0	17.5	22.0	---	24.5
4	19.0	13.5	7.0	2.0	.0	2.0	7.0	14.0	17.5	22.0	---	24.0
5	19.0	13.5	7.0	2.0	.0	1.0	7.0	14.0	18.0	21.0	---	24.0
6	18.0	13.5	7.0	1.0	.0	2.0	7.0	14.0	18.0	21.0	---	24.0
7	18.0	13.5	7.0	1.0	.0	2.0	7.0	14.0	18.0	22.0	---	---
8	18.0	12.0	7.0	1.0	1.0	---	7.0	15.0	18.0	23.0	---	23.0
9	17.0	14.0	6.0	1.0	1.0	---	7.0	---	18.0	24.0	26.0	24.0
10	17.0	14.0	6.0	1.0	---	---	7.0	19.0	18.0	24.0	26.0	24.0
11	17.0	13.0	6.0	1.0	---	---	---	18.0	18.0	24.0	25.0	24.0
12	17.0	13.0	6.0	1.0	---	---	7.0	18.0	18.0	24.0	24.0	23.0
13	17.0	13.0	6.0	1.0	---	---	7.0	17.0	---	26.0	25.0	22.0
14	16.0	13.0	6.0	1.0	---	---	7.0	17.0	20.0	26.0	23.5	21.0
15	16.0	14.0	5.5	1.0	---	2.0	7.0	16.0	22.0	26.0	22.0	20.0
16	16.0	14.0	5.5	1.0	---	2.0	7.0	---	25.0	26.0	21.0	18.0
17	16.0	14.0	5.5	.0	---	2.0	7.0	17.0	22.0	26.0	22.0	21.0
18	16.0	14.0	5.5	.0	---	2.0	---	17.0	22.0	26.0	22.0	22.0
19	16.0	13.5	5.0	.0	---	2.0	8.5	17.0	22.0	26.0	22.0	20.0
20	16.0	13.5	4.0	.0	---	---	9.0	17.0	22.0	27.0	22.0	21.0
21	16.0	13.5	3.5	.0	---	---	10.0	17.0	23.0	27.0	24.0	21.0
22	16.0	13.5	3.5	.0	1.0	4.5	10.0	17.0	22.0	27.0	26.0	21.0
23	16.0	9.0	3.5	.0	1.0	4.5	10.0	17.0	22.0	27.0	26.0	20.0
24	16.0	9.0	3.5	.0	1.0	4.5	10.0	17.0	22.0	27.0	24.5	20.0
25	16.0	8.0	3.0	1.0	1.0	5.5	11.0	17.0	21.0	29.0	24.5	20.0
26	14.0	8.0	3.0	1.0	1.0	5.5	11.0	17.0	22.0	29.0	24.5	20.0
27	14.0	8.0	2.5	1.0	1.0	5.5	10.0	16.5	22.0	29.0	25.0	21.0
28	14.0	8.0	2.5	1.0	1.0	6.0	11.0	16.0	22.0	28.5	25.0	20.0
29	14.0	8.0	2.0	1.0	---	6.0	12.0	16.0	22.0	28.5	25.0	20.0
30	14.0	8.0	2.0	1.0	---	7.0	14.0	17.0	22.0	28.5	25.0	19.0
31	---	---	2.0	1.0	---	8.0	---	17.0	---	28.0	25.0	---
MEAN	16.5	12.0	5.0	1.0	.5	3.5	8.5	16.5	20.5	25.5	24.5	22.0
WTR YR 1979	MEAN	13.5		MAX	29.0		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 Plan. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, (see p.302), and by diversion out of basin at Shepaug Reservoir.

AVERAGE DISCHARGE (adjusted for storage and diversion).--51 years, 2,624 ft³/s (74.31 m³/s), 23.12 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, 41,800 ft³/s (1,184 m³/s) Mar. 7, gage height, 18.25 ft (5.563 m); minimum, 28 ft³/s (0.793 m³/s) Oct. 22, gage height, 0.43 ft (0.131 m); minimum daily, 31 ft³/s (0.878 m³/s) Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	124	367	1560	5750	5250	2630	6510	6410	1130	781	422
2	3040	335	107	6050	4840	3930	4640	6430	4450	1140	523	318
3	121	116	119	11400	2100	4000	5320	6380	2510	961	1050	702
4	44	46	1170	7940	1580	2260	5510	6280	3340	321	246	710
5	44	31	1960	6360	4910	5120	5760	5620	3940	1800	127	3220
6	2710	178	1570	5190	3840	25600	4460	1200	3090	1050	654	4770
7	2730	157	1760	4920	3350	35400	3210	4630	4090	126	478	1640
8	250	365	1820	15900	3440	24300	1190	3950	2810	99	784	1040
9	604	168	2170	11700	2670	15200	4100	4410	1070	679	531	1150
10	49	137	2640	8220	647	14200	6060	3930	531	1660	85	2240
11	46	41	2910	6800	52	16200	5590	3500	3190	56	564	2170
12	479	36	2350	4640	3760	12300	5050	1020	3740	61	1530	2400
13	488	203	2120	5030	4030	8340	5280	1220	3160	270	3330	1090
14	84	250	2060	5320	2480	8440	4120	3360	3170	134	1440	1210
15	114	194	2360	4720	2700	8310	4510	2830	3120	136	1490	62
16	281	450	205	4340	2280	8150	5560	3110	58	1510	795	59
17	663	513	43	4510	834	6960	6180	1790	308	769	237	728
18	752	43	1520	3530	46	4020	5570	3120	2600	86	90	418
19	857	33	931	3060	703	4550	6320	1680	2370	785	602	386
20	258	332	1080	2480	3260	4680	5240	737	1600	482	647	490
21	41	266	2220	6490	2970	4440	3270	2740	597	65	1120	705
22	36	235	2540	12100	2830	4770	2360	2270	2120	62	1090	2860
23	113	41	119	6520	3890	4930	4370	4150	57	1470	1420	2850
24	41	351	94	9140	6630	4940	3480	5090	57	889	426	2790
25	113	97	742	28300	11200	6400	3780	13200	977	1130	82	2140
26	111	39	2220	15900	10800	6360	3250	13200	387	1470	87	1740
27	123	1570	2240	9140	6520	6140	8360	10800	764	146	933	582
28	43	242	2380	9050	5780	6200	9690	9600	527	154	558	1530
29	41	309	970	7380	---	5810	7720	11090	243	131	713	583
30	130	803	44	6210	---	5950	8250	6560	106	438	1700	1640
31	105	---	95	6330	---	5130	---	6380	---	606	598	---
TOTAL	15711	7729	42926	240370	102992	278280	150830	156647	61392	20316	24711	42635
MEAN	507	258	1385	7754	3678	8977	5028	5055	2046	655	797	1421
MAX	3080	1570	2910	28300	11200	35400	9690	13200	6410	1470	3330	4770
MIN	36	31	43	1560	46	2260	1190	737	57	56	82	59
(†)	+2.5	+33.5	-127	+419	-459	+333	+208	+224	-82.9	+21.4	+40.6	+44.6
MEAN ‡	510	292	1258	8173	3219	9310	5236	5279	1963	676	838	1466
CFSM ‡	0.33	0.19	0.82	5.30	2.09	6.04	3.40	3.43	1.27	0.44	0.54	0.95
IN ‡	0.38	0.21	0.94	6.11	2.18	6.96	3.79	3.95	1.42	0.51	0.62	1.06

CAL YR 1978 TOTAL 909518 MEAN 2492 MAX 19100 MIN 31 MEAN ‡ 2540 CFSM ‡ 1.65 IN ‡ 21.96
WTR YR 1979 TOTAL 1144589 MEAN 3136 MAX 35400 MIN 31 MEAN ‡ 3170 CFSM ‡ 2.06 IN ‡ 28.13

† 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 STEVENSON, 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, 110 micromhos Mar. 9-10, 1979.

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, 339 micromhos Nov. 8; minimum recorded, 110 micromhos Mar. 9-10.

WATER TEMPERATURES: Maximum recorded, 25.5°C July 24; minimum recorded 0.0°C Jan. 7, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	1000	3730	260	7.2	7.0	14.0	20	1.0	8.2	79	460	K16
NOV												
08...	1015	4350	335	7.4	8.5	12.5	25	2.0	8.3	78	K3	K1
DEC												
13...	0945	4340	268	7.5	3.5	5.0	15	3.0	11.6	91	250	42
JAN												
09...	1215	8900	185	7.2	<-5.0	1.0	15	4.0	14.6	103	11000	380
FEB												
08...	1045	5600	200	6.6	-1.0	1.0	10	3.0	13.8	97	K4	K4
MAR												
06...	1300	28500	185	7.3	12.0	2.0	20	7.0	14.6	105	2600	64
26...	0915	--	--	--	--	5.0	--	--	--	--	--	--
APR												
12...	1215	5520	190	6.3	16.5	8.0	5	3.0	9.1	76	K4	K3
MAY												
09...	1530	6300	180	7.3	32.5	16.0	--	3.0	9.8	103	K5	K2
JUN												
13...	1415	5520	235	6.8	21.0	19.0	5	2.0	9.6	103	65	K6
JUL												
19...	1050	62	210	7.4	24.5	23.5	5	3.0	9.0	105	25	K12
AUG												
10...	1220	84	246	6.9	29.5	24.0	7	3.0	5.4	63	K6	K2
SEP												
20...	1045	710	240	7.6	11.5	21.0	3	3.0	5.8	64	K3	K1

DATE	STRIP- TONGUE FECAL KF AGAW (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)	CALCIUM DTS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DTS- SOLVED (MG/L AS Mg)	SODIUM, DTS- 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)	ALKAL- INITY (MG/L AS CaCO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT												
17...	<1	110	23	27	11	11	17	.5	--	2.3	90	--
NOV												
08...	<1	120	22	28	11	11	17	.4	--	2.3	93	--
DEC												
13...	28	110	22	27	10	11	18	.5	--	2.0	87	--
JAN												
09...	2100	66	19	16	6.3	8.0	20	.4	--	2.1	47	--
FEB												
08...	K1	63	15	16	5.7	8.5	22	.5	--	1.3	48	--
MAR												
06...	2000	55	15	14	4.8	7.8	23	.5	--	1.7	40	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	<1	75	18	19	6.6	6.1	15	.3	--	1.3	57	--
MAY												
09...	K2	73	18	19	6.3	5.4	14	.3	--	1.2	55	--
JUN												
13...	K2	70	13	18	6.2	5.7	15	.3	--	1.1	57	--
JUL												
19...	K2	94	10	24	8.2	8.0	15	.4	9.3	1.3	84	6.5
AUG												
10...	<1	110	4	28	9.5	9.2	15	.4	11	1.4	100	25
SEP												
20...	<1	120	25	28	11	11	17	.4	13	2.0	90	4.4

< 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 1978 TO SEPTEMBER 1979

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 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 DIS- SOLVED (MG/L AS N)	NITRO- GEN. NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN. AMMONIA TOTAL (MG/L AS N)
OCT 17...	19	16	.1	1.7	150	142	.20	1510	159	.61	--	.02
NOV 08...	18	17	.1	.6	164	144	.22	1930	167	.45	--	.11
DEC 13...	17	16	.1	2.4	142	138	.19	1660	147	.47	--	.12
JAN 09...	12	13	.0	5.1	99	91	.13	2380	118	.52	--	.11
FEB 08...	12	13	.1	5.0	104	91	.15	1630	111	.49	--	.07
MAR 06...	10	15	.0	3.9	85	81	.12	6540	103	.45	--	.19
APR 12...	13	11	.0	4.4	105	96	.14	1570	109	.39	--	.10
MAY 09...	11	9.5	.0	3.9	98	89	.13	1670	--	.21	--	.06
JUN 13...	11	8.8	.1	3.2	102	88	.14	1520	120	.26	--	.04
JUL 19...	12	13	.1	2.5	140	120	.19	23.4	153	.23	--	.03
AUG 10...	13	15	.1	2.1	147	139	.20	33.3	164	.30	--	.16
SEP 20...	14	16	.1	1.7	150	139	.20	288	173	.30	.30	.06

DATE	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. NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN. AM- MONIA + ORGANIC TOTAL (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)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)
OCT 17...	--	.54	.56	.02	.54	1.2	--	5.2	.05	--	.04
NOV 08...	--	.31	.42	.00	.45	.87	--	3.9	.03	--	.02
DEC 13...	--	.32	.44	.06	.38	.91	--	4.0	.06	--	.04
JAN 09...	--	.25	.36	.00	1.4	.88	--	3.9	.08	--	.48
FEB 08...	--	.19	.26	.00	.26	.75	--	3.3	.14	--	.13
MAR 06...	--	.62	.81	.36	.45	1.3	--	5.6	.10	--	.04
APR 12...	--	.16	.26	.00	.26	.65	--	2.9	.03	--	.02
MAY 09...	.07	.43	.49	.22	.27	.70	--	3.1	.03	.09	.01
JUN 13...	.05	.31	.35	.21	.14	.61	--	2.7	.04	.12	.01
JUL 19...	.04	.37	.40	.18	.22	.63	--	2.8	.01	.03	.00
AUG 10...	.19	.29	.45	.00	.46	.75	--	3.3	.05	.15	.02
SEP 20...	.07	.50	.56	.20	.36	.86	.66	3.8	.05	.15	.01

HOUSATONIC RIVER BASIN

279

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIIUM, 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)	CHRO- MIUM, SUS- PENDED RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	1	0	0	0	0	--	--	--	--	--	0	--
JAN 09...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	2	1	0	0	100	1	0	1	<10	<10	0	2
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	3	2	0	0	0	1	0	1	--	--	<10	1
JUN 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	4	4	40	0	40	1	0	1	20	10	10	0
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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 PR)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PR)	LEAD, DIS- SOLVED (UG/L AS PR)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT 17...	--	--	--	--	5	--	--	--	--	--	--	--
NOV 01...	--	--	--	--	3	--	--	3	--	--	--	--
DEC 13...	--	1	0	0	0	280	210	70	--	--	--	60
JAN 09...	--	--	--	--	4	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	3	--	--	--	--	--	--	--
MAR 06...	1	1	6	1	5	470	800	70	4	3	1	40
APR 12...	--	--	--	--	3	--	--	--	--	--	--	--
MAY 09...	1	0	6	3	3	250	220	30	12	10	2	54
JUN 13...	--	--	--	--	3	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	6	--	--	--	--	--	--	--
AUG 10...	0	0	23	11	12	250	240	10	6	6	0	210
SEP 20...	--	--	--	--	2	--	--	--	--	--	--	--

< 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 1978 TO SEPTEMBER 1979

DATE	MANGA- NIFE- SUS- PENDE RECOV- (UG/L AS MN)	MANGA- NIFE- SUS- PENDE RECOV- (UG/L AS MN)	MERCURY TOTAL RECOV- EPABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- EPABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM- TOTAL (UG/L AS SF)	SELE- NIUM- PENDE TOTAL (UG/L AS SE)	SELE- NIUM- DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- EPABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- EPABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	40	20	<.5	.0	<.5	10	0	10	--	--	0
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	10	30	<.5	.0	<.5	0	0	0	0	0	0
APR 26...	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	50	4	<.5	.0	<.5	0	0	0	0	0	0
JUL 13...	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	150	60	<.5	.0	<.5	0	0	0	0	0	0
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

DATE	ZINC- TOTAL RECOV- EPABLE (UG/L AS ZN)	ZINC- SUS- PENDE RECOV- EPABLE (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 PENDE TOTAL (MG/L AS C)	METHY- LENE BLUF ACTIVE SUB- STANCE (MG/L)	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 17...	--	--	10	4.2	--	--	.00	--	--	--
NOV 08...	--	--	0	5.8	--	--	--	--	--	--
DEC 13...	60	60	0	10	10	.4	.00	1900	4.16	.000
JAN 09...	--	--	10	5.3	--	--	--	--	--	--
FEB 08...	--	--	40	2.7	--	--	--	--	--	--
MAR 06...	0	0	10	--	40	--	.00	600	.000	.000
APR 26...	--	--	--	--	--	--	--	560	--	--
MAY 12...	--	--	20	--	--	--	--	--	--	--
JUN 09...	30	20	10	5.6	4.4	1.2	--	2800	8.27	.000
JUL 13...	--	--	8	6.7	--	--	--	2400	--	--
AUG 10...	--	--	10	6.1	--	--	--	9700	--	--
SEP 20...	40	0	40	6.0	5.7	.3	.00	10000	5.26	.000
SEP 20...	--	--	0	6.7	--	--	--	24000	--	--

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

HOUSATONIC RIVER BASIN

281

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDIM- ENT 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)	SEDIM- ENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 17...	1000	3730	15	151	100	APR 12...	1215	5520	7	104	100
NOV 08...	1015	4350	6	70	100	MAY 09...	1530	6300	6	102	100
DEC 13...	0945	4340	5	59	100	JUN 13...	1415	5520	14	209	62
JAN 09...	1215	8900	15	360	100	JUL 19...	1050	62	17	2.8	100
FEB 08...	1045	5600	6	91	100	AUG 10...	1220	84	15	3.4	67
MAR 06...	1300	28500	20	1540	--	SEP 20...	1045	710	10	19	75

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PERIPHYTON

(sampling method - Polyethylene strip)

Dates of Exposure	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M ²)
September 13 to October 17	35	2.36	1.50	68.3	11.6
May 14 to June 13	31	.390	.080	.570	.110

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	DEC 13,78 0945	MAR 6,79 1300	MAR 26,79 0915	MAY 9,79 1530				
TOTAL CELLS/ML	1900	600	560	2800				
DIVERSITY: DIVISION	1.3	1.0	1.1	0.8				
..CLASS	1.3	1.0	1.1	0.8				
...ORDER	1.4	1.2	1.1	1.1				
...FAMILY	1.4	1.5	1.1	1.4				
....GENUS	2.1	1.6	1.1	0.0				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHAPACIACEAE								
...SCHROEDERIA	--	-	--	-	--	-	--	-
...COFLASTRACEAE								
...COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
...PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
...GOLENKINIA	--	-	--	-	--	-	--	-
...MICRACTINIUM	--	-	--	-	--	-	97	3
...OOCYSTACEAE								
...ANKISTRODESUS	200	11	14	2	--	-	230	8
...CHODATELLA	--	-	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...KIPCHNEPHELIA	--	-	--	-	--	-	54	2
...SEIFNASTRUM	--	-	--	-	--	-	--	-
...TREPURARIA	--	-	--	-	--	-	--	-
...PESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
...ACTINASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMUS	--	-	--	-	--	-	190	7
...TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	58	2
...CAPTIFRIA	--	-	--	-	--	-	14	1
...CHLAMYDOMONAS	--	-	--	-	--	-	--	-
...CHLOROGONIUM	--	-	--	-	--	-	14	1
...VOLVOCAEAE								
...GONIUM	--	-	--	-	58	10	--	-
...DANDORINA	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...ZYGNEMATAEAE								
...MOUGFOTIA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
...CYCLOTELLA	560	29	42	7	--	-	1700	61
...MFLOSIRA	58	3	--	-	--	-	350	12
...STEPHANODISCUS	--	-	--	-	--	-	--	-
...PENNALS								
...ACHNANTHACEAE								
...COCCONEIS	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	28	5	100	18	14	1
...FRAGILARIA	--	-	--	-	--	-	--	-
...SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEMATAEAE								
...GOMPHONEMA	--	-	14	2	--	-	--	-
...NAVICULACEAE								
...NAVICULA	--	-	42	7	--	-	--	-
...PINNULARIA	--	-	14	2	--	-	--	-
...NITZSCHIAEAE								
...NITZSCHIA	14	1	14	2	--	-	34	1
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...MALLOMONADACEAE								
...MALLOMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	--	-	--	-	--	-

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

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

HOUSATONIC RIVER BASIN

283

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	DEC 13, 78 0945		MAR 6, 79 1300		MAR 26, 79 0915		MAY 9, 79 1530	
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	--	-	--	-	--	-	--	-
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	--	-	--	-
....LYNGBYA	400# 21		--	-	--	-	--	-
...OSCILLATORIA	680# 35		430# 72		400# 72		--	-
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALS								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...CERATIAEAE								
....CERATIUM	--	-	--	-	--	-	--	-
...PERIDINIAEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

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

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUN 13.79 1415	JUL 19.79 1050	AUG 10.79 1220	SEP 20.79 1045
TOTAL CELLS/ML	2400	9700	10000	24000
DIVERSITY: DIVISION	1.4	0.5	1.0	0.9
..CLASS	1.4	0.5	1.0	0.9
..ORDER	2.2	1.5	1.2	1.3
...FAMILY	2.5	2.1	1.6	1.5
....GENUS	3.1	2.3	1.9	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHAPACIACEAE								
...SCHROEDERIA	--	-	--	-	420	4	*	0
...COELASTRACEAE								
...COELASTRUM	--	-	110	1	180	2	--	-
...HYDRODICTYACEAE								
...PEDIATRUM	--	-	--	-	--	-	*	0
...MICRACTINIACEAE								
...GOLENKINIA	--	-	--	-	51	1	--	-
...MICRACTINIUM	52	2	190	2	130	1	330	1
...ONCYSTACEAE								
...ANKISTRODYSMUS	39	2	*	0	90	1	150	1
...CHODATELLA	--	-	--	-	--	-	*	0
...DICTYOSPHAERIUM	52	2	--	-	660	7	--	-
...KICHNFRIELLA	--	-	--	-	--	-	240	1
...SELENASTRUM	--	-	--	-	51	1	--	-
...TRUFURIA	--	-	--	-	*	0	--	-
...WESTFLLA	--	-	--	-	210	2	--	-
...SCENEDFSMACEAE								
...ACTINASTRUM	--	-	--	-	100	1	240	1
...SCENEDFSMUS	230	10	--	-	330	3	180	1
...TETRASTRUM	--	-	--	-	51	1	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-
...CAPTERIA	--	-	--	-	--	-	--	-
...CHLAMYDOMONAS	--	-	*	0	64	1	*	0
...CHLOROGONIUM	--	-	--	-	--	-	--	-
...VOLVOCAEAE								
...GONIUM	--	-	--	-	--	-	--	-
...PANDORINA	210	4	--	-	--	-	--	-
...ZYGNEMATALES								
...ZYGNEMATAEAE								
...MOLIGOTIA	--	-	97	1	--	-	--	-
CHRYSOPHYTA								
..PACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
...CYCLOTELLA	170	7	83	1	220	2	1200	5
...MELOSIDA	400#	20	83	1	--	-	2200	9
...STEPHANODISCUS	26	1	--	-	--	-	--	-
...PENNIALES								
...ACHNANTHACEAE								
...COCCONFIS	--	-	*	0	--	-	--	-
...FRAGILARIACEAE								
...ASTERIONELLA	500#	21	--	-	--	-	--	-
...FRAGILARIA	250	10	56	1	--	-	--	-
...SYNEDRA	--	-	--	-	--	-	*	0
...GOMPHONEMATAEAE								
...GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
...NAVICULA	--	-	--	-	*	0	*	0
...PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIAEAE								
...NITZSCHIA	13	1	--	-	51	1	*	0
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...MALLOMONADACEAE								
...MALLOMONAS	--	-	--	-	*	0	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
...CRYPTOMONAS	13	1	--	-	--	-	--	-

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

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

HOUSATONIC RIVER BASIN

285

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

DATE TIME	JUN 13,79 1415		JUL 19,79 1050		AUG 10,79 1220		SEP 20,79 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								
....AGMENELLUM	--	-	--	-	--	-	1600	6
....ANACYSTIS	--	-	3600#	37	190	2	2800	12
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAFNA	--	-	350	4	--	-	--	-
....APHANIZOMENON	--	-	1500#	15	--	-	1400	6
...OSCILLATORIACEAE	--	-	--	-	--	-	640	3
....LYNGRYA	--	-	250	3	--	-	--	-
....OSCILLATORIA	360#	15	3300#	34	7200#	71	--	-
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....GOMPHOSPHERIA	--	-	--	-	--	-	13000#	53
EUGLENOPHYTA (EUGLENIDS)								
..EUGLENOPHYCEAE								
...EUGLENALS								
...EUGLENACEAE								
....EUGLENA	--	-	* 0		--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...CEPATIACEAE								
....CEPATIUM	--	-	* 0		--	-	* 0	
...PERIDINIAEAE								
....PERIDINIUM	--	-	* 0		--	-	--	-

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

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

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	273	268	271	311	309	320	317	312	315	277	271	274
2	273	266	269	316	311	313	316	313	314	278	265	272
3	269	267	268	320	313	316	316	310	314	264	236	249
4	270	265	267	323	318	320	314	308	312	271	252	263
5	270	266	267	327	323	324	314	307	311	280	273	277
6	270	262	266	328	326	327	316	311	314	283	275	280
7	269	264	267	333	330	332	318	309	313	276	256	265
8	267	263	264	339	333	336	310	292	304	256	195	229
9	264	260	262	298	295	297	302	283	295	195	183	187
10	264	262	263	299	294	296	295	276	287	188	183	186
11	264	259	261	301	296	298	296	289	292	193	186	190
12	263	259	260	300	295	297	294	284	291	192	181	188
13	264	257	258	306	297	300	290	272	281	182	170	175
14	267	259	263	307	301	304	282	262	278	172	166	168
15	261	258	259	305	298	303	293	280	287	174	167	170
16	261	257	259	302	296	299	296	292	294	177	173	175
17	263	256	262	304	298	301	294	292	293	182	174	180
18	266	263	264	307	299	303	294	291	293	189	181	185
19	269	265	268	305	301	304	295	291	293	193	184	188
20	272	269	271	306	301	303	297	291	294	195	190	193
21	277	273	274	305	303	304	292	284	288	203	192	198
22	285	278	281	307	303	305	290	284	288	210	183	193
23	287	281	284	307	304	305	290	289	289	204	190	198
24	288	282	285	305	298	303	291	288	290	221	195	209
25	291	289	290	306	300	304	288	285	286	210	163	178
26	293	290	292	309	299	306	287	278	283	178	166	172
27	298	291	295	316	299	308	284	280	282	180	169	175
28	300	297	298	315	311	313	284	275	280	171	142	156
29	304	297	301	314	310	312	280	273	277	143	137	140
30	306	299	305	316	311	313	280	277	279	141	131	140
31	311	301	307	---	---	---	278	274	276	160	135	148
MONTH	311	256	274	339	294	309	318	262	293	283	131	200
FEBRUARY			MARCH			APRIL			MAY			
1	172	145	165	213	195	204	198	189	194	195	189	192
2	179	169	174	199	182	193	189	180	184	191	183	186
3	183	178	180	186	178	182	183	175	178	187	178	183
4	181	175	178	180	174	177	180	175	178	178	170	175
5	189	177	182	181	177	178	180	177	179	172	167	169
6	191	187	190	183	169	178	183	177	179	174	169	172
7	202	190	195	178	149	168	186	179	182	175	168	172
8	206	197	200	145	112	122	189	184	186	180	173	176
9	206	199	204	113	110	111	186	180	183	189	178	182
10	209	203	206	117	110	114	192	180	187	198	183	187
11	207	204	205	120	115	118	192	178	188	199	191	195
12	211	203	207	130	119	124	195	190	193	197	192	196
13	221	208	214	138	126	131	199	186	194	199	194	196
14	226	219	224	140	136	138	200	195	198	203	193	197
15	231	223	227	145	140	142	198	187	195	204	194	198
16	233	229	231	151	143	147	202	188	196	203	194	198
17	236	228	232	152	149	151	193	186	188	206	199	202
18	235	231	233	155	151	154	196	185	190	209	196	205
19	235	229	233	161	140	156	204	194	199	211	206	209
20	238	231	234	162	158	160	201	195	198	212	209	211
21	240	235	238	161	150	158	199	194	197	218	214	215
22	242	235	238	159	146	155	199	189	196	219	214	216
23	248	240	243	171	157	165	199	190	195	222	217	219
24	263	249	257	180	169	175	194	189	192	235	224	231
25	258	221	238	199	182	191	193	189	191	244	234	239
26	232	222	226	200	196	198	194	188	192	236	226	232
27	230	224	226	206	195	198	194	179	188	228	211	218
28	223	209	215	212	203	208	179	163	167	214	202	209
29	---	---	---	205	195	203	188	167	179	202	194	197
30	---	---	---	202	189	198	192	181	187	198	195	197
31	---	---	---	205	195	201	---	---	---	199	195	197
MONTH	263	145	214	213	110	164	204	163	188	244	167	199

HOUSATONIC RIVER BASIN

287

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	198	194	197	246	241	244	236	224	231	265	254	261
2	199	195	197	243	236	241	239	227	236	268	258	264
3	200	196	198	241	232	237	244	233	238	270	260	265
4	204	199	201	239	236	237	245	227	240	269	255	264
5	204	200	203	237	231	234	246	236	242	266	257	261
6	207	202	206	237	230	233	246	235	242	263	255	260
7	211	206	209	236	230	234	250	236	243	270	257	264
8	212	207	209	237	228	234	253	236	247	270	263	266
9	221	212	217	235	230	233	249	219	242	269	257	264
10	224	213	221	234	227	230	254	247	252	268	258	263
11	231	222	225	232	222	228	254	239	250	262	259	260
12	228	224	226	232	224	228	249	234	242	---	---	---
13	240	228	233	230	223	227	245	235	240	---	---	---
14	244	236	240	230	224	227	243	236	241	---	---	---
15	248	241	244	229	224	227	244	236	241	---	---	---
16	246	244	245	231	225	228	243	240	242	---	---	---
17	246	232	240	229	220	226	244	232	241	---	---	---
18	247	240	243	228	225	226	246	239	243	---	---	---
19	247	242	244	226	218	223	246	242	244	---	---	---
20	255	226	248	226	218	223	244	237	242	---	---	---
21	257	247	252	225	219	223	248	241	244	---	---	---
22	261	250	254	225	220	223	248	242	245	---	---	---
23	256	249	253	227	220	223	248	244	246	---	---	---
24	250	241	247	228	219	225	240	243	248	---	---	---
25	248	241	244	230	219	225	251	241	247	---	---	---
26	249	243	245	232	223	227	252	244	247	---	---	---
27	249	244	247	235	227	235	253	246	249	---	---	---
28	246	241	244	234	228	232	256	249	252	---	---	---
29	246	241	244	235	229	232	258	249	254	---	---	---
30	247	233	243	236	227	232	261	253	258	---	---	---
31	---	---	---	237	217	231	262	252	258	---	---	---
MONTH	261	194	231	246	217	230	262	219	245	270	254	263

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979--Continued

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

HOUSATONIC RIVER BASIN

289

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.--23 years, 59.0 ft³/s (1.671 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, 2,160 ft³/s (61.2 m³/s) Mar. 6, gage height 5.48 ft (1.670 m); minimum daily, 3.6 ft³/s (0.102 m³/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	8.8	22	94	45	73	88	155	198	11	6.5	7.8
2	3.2	7.6	16	306	44	73	88	108	142	16	6.0	7.7
3	3.3	7.1	11	238	41	77	116	84	90	13	6.7	7.8
4	3.1	6.7	24	108	40	80	108	92	81	11	5.5	7.8
5	6.2	6.2	42	69	39	152	114	80	72	9.3	5.2	7.4
6	24	6.0	34	58	38	1550	96	67	73	8.0	4.7	134
7	16	5.8	23	77	37	576	79	61	62	6.7	3.7	110
8	9.1	6.0	22	667	36	472	64	56	47	5.5	3.7	45
9	6.9	6.0	88	235	35	405	84	54	37	5.2	3.6	24
10	5.6	6.7	69	112	34	498	125	50	33	5.2	4.9	15
11	5.3	7.6	46	80	33	542	118	40	35	4.7	18	12
12	5.0	6.9	37	106	32	346	108	36	45	4.7	82	9.2
13	5.0	6.2	28	79	31	252	90	45	34	4.7	100	8.6
14	5.2	5.8	21	70	30	168	155	50	26	4.3	45	13
15	9.1	7.1	16	61	29	163	183	48	23	4.0	22	22
16	4.0	5.3	13	54	28	102	168	41	20	5.6	14	18
17	4.6	6.5	18	55	27	86	152	32	17	14	9.3	11
18	5.3	22	18	47	27	75	116	29	17	16	18	9.4
19	5.8	21	33	110	28	73	90	34	14	8.8	48	9.4
20	7.1	14	9.6	90	29	77	79	41	13	7.1	35	7.4
21	5.5	9.1	25	306	32	86	69	36	12	6.7	20	17
22	5.3	8.8	25	163	37	142	64	30	11	6.5	13	110
23	5.6	7.8	20	86	50	171	61	41	9.6	6.0	10	72
24	6.3	11	15	147	100	155	55	346	9.3	5.6	12	38
25	4.3	13	22	978	140	252	50	873	8.3	5.2	16	24
26	5.6	8.3	17	375	300	177	61	433	7.8	7.1	18	20
27	14	5.8	14	218	81	125	514	306	7.8	14	20	17
28	12	7.6	34	125	61	94	350	259	7.8	13	16	14
29	11	7.6	75	102	---	77	302	433	7.8	8.3	13	57
30	8.8	18	21	79	---	80	201	366	8.5	7.1	12	50
31	8.8	---	11	60	---	84	---	289	---	6.9	8.5	---
TOTAL	224.0	266.3	869.6	5355	1484	7283	3948	4615	1168.9	251.2	600.3	905.5
MEAN	7.23	8.88	28.1	173	53.0	235	132	149	39.0	8.10	19.4	30.2
MAX	24	22	88	978	300	1550	514	873	198	16	100	134
MIN	3.0	5.3	9.6	47	27	73	50	29	7.8	4.0	3.6	7.4
CAL YR 1978	TOTAL	21789.4	MEAN	59.7	MAX	2120	MIN	3.0				
WTR YR 1979	TOTAL	26970.8	MEAN	73.9	MAX	1550	MIN	3.0				

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 good. Flow regulated by Lake Winchester, and by East Branch Detention Reservoir (see p.302).

AVERAGE DISCHARGE (adjusted for storage since October 1965).--23 years, 24.8 ft³/s (0.702 m³/s), 24.58 in/yr (624 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, 631 ft³/s (17.9 m³/s) Jan. 25, gage height 3.38 ft (1.03 m); minimum observed, 1.2 ft³/s (0.034 m³/s) Oct. 3, gage height, 1.05 ft (0.320 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.0	4.6	16	57	47	28	44	34	3.9	3.4	8.5
2	1.4	3.0	5.5	14	52	46	28	39	31	3.6	3.3	8.5
3	1.2	3.0	7.2	14	40	54	27	41	31	3.4	3.1	8.1
4	1.5	3.0	10	14	34	88	26	39	28	3.4	3.0	8.5
5	3.1	3.0	12	14	28	228	25	38	26	3.4	2.8	8.1
6	3.4	2.8	11	12	23	373	26	52	26	3.6	2.6	8.1
7	3.0	2.8	9.3	18	21	250	27	44	24	5.2	2.3	15
8	2.6	3.0	11	18	19	130	29	41	23	5.2	2.2	11
9	2.5	2.8	12	17	17	80	31	36	22	4.9	2.5	9.7
10	2.5	2.6	10	14	15	80	29	36	21	4.9	2.5	8.5
11	2.5	2.8	8.5	14	14	78	28	34	20	4.6	6.2	8.5
12	2.5	2.8	7.2	115	13	68	27	38	17	3.9	76	8.1
13	2.6	2.8	8.1	34	13	60	26	44	14	4.2	78	7.6
14	2.8	2.8	8.1	26	12	55	24	36	12	6.2	11	9.7
15	2.8	3.6	7.2	23	11	52	24	30	11	5.8	10	14
16	2.6	2.6	6.8	22	11	50	46	24	10	5.2	8.9	9.7
17	2.5	3.4	7.2	21	11	44	58	20	10	5.2	8.5	8.5
18	2.6	3.3	6.8	21	11	43	58	18	9.3	4.6	14	8.5
19	3.0	3.4	6.5	20	12	39	54	20	8.9	4.6	23	8.1
20	3.3	3.9	6.2	20	13	47	55	20	8.5	4.2	15	9.3
21	3.1	4.9	5.8	54	18	49	68	18	7.6	4.2	10	10
22	3.0	4.6	5.8	253	68	44	90	18	8.9	4.2	8.5	9.3
23	2.8	4.2	6.8	68	60	41	132	18	9.5	4.2	8.5	9.3
24	2.8	3.9	8.1	78	78	40	192	17	7.2	3.9	8.5	9.3
25	2.6	4.2	9.3	117	58	38	207	38	5.2	3.6	8.5	10
26	2.6	4.2	12	86	49	36	215	61	4.2	4.2	10	14
27	2.6	4.2	12	98	49	39	216	25	3.9	7.6	8.9	12
28	2.8	4.2	12	84	47	32	145	31	4.2	6.2	8.9	12
29	3.0	4.2	11	76	---	30	58	39	4.2	4.9	8.9	12
30	3.1	3.9	13	64	---	28	49	38	4.2	3.9	8.9	12
31	3.0	---	14	58	---	28	---	36	---	3.6	8.9	---
TOTAL	81.2	102.9	275.0	1503	854	2317	2049	1033	444.8	140.5	376.8	295.9
MEAN	2.62	3.43	8.87	48.5	30.5	74.7	68.3	33.3	14.8	4.53	12.2	9.86
MAX	3.4	4.9	14	253	78	373	216	61	34	7.6	78	15
MIN	1.2	2.6	4.6	12	11	28	24	17	3.9	3.4	2.2	7.6
(†)	-1.7	+1.7	0	0	0	0	0	0	0	-2.9	+2.9	0
MEAN ‡	0.92	5.13	8.87	48.5	30.5	74.7	68.3	33.3	14.8	1.63	15.1	9.86
CFSM ‡	0.07	0.37	0.65	3.54	2.23	5.45	4.99	2.43	1.08	0.12	1.10	0.72
IN ‡	0.08	0.41	0.75	4.08	2.32	6.28	5.57	2.80	1.20	0.14	1.27	0.80

CAL YR 1978 TOTAL 8574.0 MEAN 23.5 MAX 465 MIN 1.2 MEAN ‡ 23.5 CFSM ‡ 1.72 IN ‡ 23.24
WTR YR 1979 TOTAL 9473.1 MEAN 26.0 MAX 373 MIN 1.2 MEAN ‡ 26.0 CFSM ‡ 1.90 IN ‡ 25.70

† 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

291

01206650 NAUGATUCK RIVER NEAR THOMASTON, CT

LOCATION.--Lat 41°41'15", long 73°03'59", Litchfield County, Hydrologic Unit 01100005, at bridge on State Highway 222, 0.5 mi (0.8 km) downstream from Thomaston Dam, 1.0 mi (1.6 km) northeast of Thomaston and 2.4 mi (3.9 km) upstream from Branch Brook.

DRAINAGE AREA.--96.4 mi² (249.7 km²).

PERIOD OF RECORD.--Water years 1975 to January 1979 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to January 1979 (discontinued).

WATER TEMPERATURES: July 1975 to January 1979 (discontinued).

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

REMARKS.--Interruptions in the record are due to malfunctions of the instrument. Station discontinued due to drifting channel conditions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 650 micromhos Dec. 21, 1978; minimum, 88 micromhos Jan. 2, 1979.

WATER TEMPERATURES: Maximum, 34.0°C July 21, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 650 micromhos Dec. 21; minimum, 88 micromhos Jan. 2.

WATER TEMPERATURES: Maximum, 20.0°C Oct. 2; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	399	381	393	---	---	---	392	305	353	254	128	197
2	409	368	392	---	---	---	293	193	237	113	88	100
3	387	315	364	---	---	---	232	196	220	123	105	116
4	382	337	363	---	---	---	377	93	196	124	119	122
5	418	369	397	---	---	---	383	191	255	132	122	124
6	361	131	202	---	---	---	191	156	179	140	132	136
7	256	154	220	---	---	---	187	140	178	145	139	142
8	280	183	258	---	---	---	192	176	185	140	108	123
9	297	246	240	274	182	261	181	116	149	134	97	123
10	---	---	---	282	132	264	157	120	146	121	103	113
11	---	---	---	274	214	263	177	151	169	---	---	---
12	---	---	---	272	221	248	185	151	176	---	---	---
13	---	---	---	244	137	230	196	178	185	---	---	---
14	---	---	---	225	217	220	206	182	192	---	---	---
15	---	---	---	255	222	242	203	191	196	---	---	---
16	---	---	---	286	210	269	217	175	205	---	---	---
17	---	---	---	284	142	248	230	201	214	---	---	---
18	---	---	---	283	113	196	421	229	361	---	---	---
19	---	---	---	174	127	164	297	246	269	---	---	---
20	304	153	262	172	117	162	274	247	257	---	---	---
21	260	126	217	182	162	172	650	240	374	---	---	---
22	236	110	218	207	186	196	618	329	463	---	---	---
23	246	114	224	214	196	206	322	203	267	---	---	---
24	226	206	220	237	168	218	224	187	212	---	---	---
25	249	131	230	365	214	297	211	194	200	---	---	---
26	244	223	236	268	220	244	250	178	205	---	---	---
27	264	183	233	228	202	216	240	187	217	---	---	---
28	187	110	166	217	183	196	229	198	208	---	---	---
29	222	106	198	271	169	225	261	194	236	---	---	---
30	222	131	209	463	300	370	237	175	226	---	---	---
31	220	126	209	---	---	---	230	213	219	---	---	---
MONTH	418	106	260	463	113	232	650	93	231	254	88	130

HOUSATONIC RIVER BASIN

01206650 NAUGATUCK RIVER NEAR THOMASTON, CT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

HOUSATONIC RIVER BASIN

293

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. 302).

AVERAGE DISCHARGE (adjusted for storage)--20 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, 3,730 ft³/s (106 m³/s) Mar. 9, gage height, 5.57 ft (1.698 m); minimum, 9.5 ft³/s (0.27 m³/s) Aug. 9, gage height, 1.59 ft (0.485 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	31	66	339	230	294	229	989	303	45	24	33
2	25	30	53	888	226	274	223	326	238	42	25	30
3	23	28	47	1160	200	292	329	270	182	37	28	44
4	24	28	89	850	180	304	274	321	162	32	39	34
5	35	28	147	245	160	589	357	260	151	30	23	30
6	117	26	94	205	140	458	263	219	151	28	21	223
7	58	26	71	212	124	174	218	199	130	27	19	468
8	41	27	66	421	120	1340	187	183	115	25	23	137
9	34	27	286	1640	112	3300	260	169	101	23	17	82
10	29	26	262	2150	105	3550	410	157	97	23	26	62
11	26	28	138	262	95	1480	367	138	98	23	77	51
12	24	27	119	219	93	2690	287	126	127	22	255	43
13	23	25	104	205	91	2780	244	164	97	21	338	39
14	25	25	87	321	89	1770	384	173	78	20	133	41
15	29	25	71	249	87	459	486	173	71	20	78	94
16	27	26	66	198	84	299	438	140	64	79	62	59
17	22	26	80	174	82	266	424	119	58	99	45	47
18	23	62	68	165	84	241	315	111	58	50	55	39
19	23	55	55	156	87	229	256	119	52	39	143	36
20	34	42	58	141	91	228	222	123	47	31	119	34
21	33	36	119	198	102	231	201	113	43	29	71	42
22	31	34	107	1180	153	275	188	98	41	28	53	343
23	29	32	80	1760	147	329	180	144	41	25	43	199
24	31	39	68	286	333	312	170	518	38	24	47	112
25	29	50	80	358	386	575	163	1620	35	24	60	80
26	31	39	84	2260	998	418	187	2280	34	26	69	68
27	60	30	76	3130	1230	303	251	1300	32	70	60	60
28	50	36	58	2490	766	244	1040	486	31	43	57	53
29	37	36	62	1020	---	229	1460	754	30	33	45	169
30	33	66	62	321	---	230	1590	586	32	28	43	140
31	32	---	62	274	---	232	---	430	---	27	38	---
TOTAL	1060	1016	2885	23477	6595	24345	11603	12808	2737	1073	2136	2892
MEAN	34.2	33.9	93.1	757	236	785	387	413	91.2	34.6	68.9	96.4
MAX	117	66	286	3130	1230	3550	1590	2280	303	99	338	468
MIN	22	25	47	141	82	174	163	98	30	20	17	30
(†)	+0.9	-0.8	0	+3.2	+6.7	-8.9	+37.1	-33.8	-2.7	-2.9	+3.0	+0.3
MEAN ‡	35.1	34.7	93.1	760	243	776	424	379	88.5	31.7	71.9	96.7
CFSM ‡	0.35	0.35	0.94	7.66	2.45	7.82	4.27	3.82	0.89	0.32	0.72	0.97
IN ‡	0.40	0.39	1.08	8.83	2.55	9.02	4.76	4.40	0.99	0.37	0.83	1.08
CAL YR 1978 TOTAL	71483											
WTR YR 1979 TOTAL	92627											
MEAN 196												
MEAN 254												
MAX 2830												
MAX 3550												
MIN 16												
MIN 17												
MEAN ‡ 196												
MEAN ‡ 254												
CFSM ‡ 1.98												
CFSM ‡ 2.56												
IN ‡ 26.78												
IN ‡ 34.70												

† 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

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. 302).

AVERAGE DISCHARGE.--8 years, 38.3 ft³/s (1.085 m³/s), adjusted.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 750 ft³/s (21.2 m³/s) Jan. 26, gage height 3.96 ft (1.207 m); minimum, 1.0 ft³/s (0.028 m³/s) July 15, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	12	14	103	28	84	39	71	25	13	4.0	23
2	1.5	8.3	13	389	21	77	35	53	23	10	4.2	23
3	1.5	7.9	14	347	19	80	56	52	23	8.0	4.2	24
4	5.7	8.6	22	83	18	96	52	73	21	8.3	6.0	30
5	8.6	11	23	44	16	197	54	53	15	9.4	7.7	25
6	43	12	15	33	14	108	36	34	17	6.8	6.3	17
7	17	10	11	35	12	21	29	29	13	7.7	4.2	4.4
8	14	9.0	14	186	11	58	25	25	12	9.0	4.4	7.1
9	10	11	36	431	10	533	35	22	13	8.0	4.0	6.0
10	7.9	8.6	41	189	9.0	649	61	20	14	9.0	6.5	23
11	8.3	9.8	21	43	8.0	207	46	17	13	10	14	13
12	7.6	14	15	27	7.4	427	34	18	14	10	36	3.6
13	8.6	14	14	25	6.6	187	31	24	11	7.4	35	3.6
14	11	11	13	48	6.0	53	67	23	9.4	1.9	11	3.6
15	14	20	11	48	5.5	49	75	28	9.0	2.9	8.7	4.2
16	9.4	13	9.8	31	4.4	32	77	22	9.7	10	7.1	3.8
17	8.6	9.8	13	21	14	31	67	17	11	9.7	6.0	3.8
18	7.9	7.3	20	20	21	30	47	21	11	6.0	11	4.0
19	8.6	12	17	17	8.0	29	39	17	8.0	5.7	47	4.4
20	12	16	11	17	1.6	23	26	19	4.7	4.9	41	4.4
21	8.3	13	23	41	1.6	13	23	16	5.4	5.7	25	9.0
22	11	7.6	20	273	4.9	12	21	14	6.3	8.3	13	50
23	11	7.6	18	367	8.3	28	20	23	8.0	7.1	8.3	20
24	7.9	7.6	15	64	71	35	19	81	9.4	5.2	8.0	13
25	6.6	6.3	26	89	70	89	20	337	8.3	4.4	12	9.7
26	10	10	20	427	218	53	25	325	5.2	6.8	13	9.0
27	20	10	16	634	290	40	81	91	5.4	10	9.4	8.0
28	14	11	15	364	83	29	396	67	5.7	6.3	6.8	8.0
29	14	11	14	65	---	27	367	55	6.0	8.7	6.8	16
30	24	15	13	44	---	35	97	42	8.0	8.0	7.1	14
31	17	---	15	34	---	37	---	34	---	4.9	13	---
TOTAL	350.4	324.4	542.8	4539	987.3	3369	2000	1723	344.5	233.1	390.7	387.6
MEAN	11.3	10.8	17.5	146	35.3	109	66.7	55.6	11.5	7.52	12.6	12.9
MAX	43	20	41	634	290	649	396	337	25	13	47	50
MIN	1.4	6.3	9.8	17	1.6	12	19	14	4.7	1.9	4.0	3.6
CAL YR 1978 TOTAL	11082.0			MEAN 30.4	MAX 559	MIN 1.4						
WTR YR 1979 TOTAL	15191.8			MEAN 41.6	MAX 649	MIN 1.4						

HOUSATONIC RIVER BASIN

295

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.--10 years, 37.6 ft³/s (1.065 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, 528 ft³/s (15.0 m³/s) Jan. 26, gage height, 3.92 ft (1.195 m); minimum, 0.70 ft³/s (0.020 m³/s) Sept. 21, gage height, 1.23 ft (0.375 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	8.8	23	92	51	80	30	64	34	11	1.3	4.4
2	5.2	7.9	16	207	44	60	33	54	29	7.8	1.3	3.6
3	4.6	7.9	15	190	41	50	50	49	26	5.7	5.4	5.7
4	4.6	7.9	39	19	42	40	39	61	31	4.2	52	6.0
5	5.9	7.9	37	107	39	35	43	46	29	3.6	15	4.4
6	45	7.5	23	102	34	30	35	39	37	3.1	7.4	60
7	19	7.5	18	50	33	23	29	36	25	2.9	5.1	80
8	12	7.5	20	121	31	95	27	34	21	2.5	4.4	18
9	9.9	7.1	89	281	29	400	51	32	19	2.2	3.6	11
10	8.8	7.1	66	98	27	404	50	30	17	2.0	3.4	71
11	8.2	7.1	36	75	26	164	11	28	16	2.0	10	7.8
12	7.5	6.7	33	156	25	210	12	24	18	1.9	66	6.4
13	7.5	6.7	25	192	24	123	26	33	15	1.7	73	5.7
14	8.4	6.7	25	121	23	76	59	32	12	1.5	23	5.7
15	8.8	6.7	21	60	22	65	61	31	11	1.5	13	7.4
16	7.5	6.7	20	49	21	53	68	23	9.7	2.5	9.7	5.7
17	7.1	7.5	26	42	21	50	59	19	8.4	2.7	7.4	5.1
18	7.5	26	24	38	20	46	43	18	8.5	2.5	7.8	4.2
19	7.9	15	35	37	20	43	37	20	7.4	4.7	16	3.9
20	11	11	53	35	19	40	34	19	6.7	2.7	11	3.4
21	8.8	11	59	114	52	38	32	17	6.0	2.0	8.5	12
22	7.9	9.9	30	176	125	37	31	14	4.7	1.7	7.1	140
23	7.9	9.3	23	404	144	36	30	31	5.4	1.3	5.7	45
24	7.1	16	22	83	134	37	27	86	4.7	1.3	5.1	23
25	7.1	15	26	27	52	58	26	236	4.4	1.3	6.7	18
26	7.5	11	27	246	142	40	35	169	3.9	1.3	6.0	14
27	26	18	22	496	260	34	73	66	3.6	1.3	5.1	12
28	15	15	62	479	121	31	299	83	3.6	1.5	4.2	11
29	12	12	95	440	---	36	364	83	3.6	1.5	3.9	11
30	9.9	36	69	176	---	35	95	52	3.9	1.3	7.8	11
31	8.8	---	51	62	---	32	---	41	---	1.3	6.0	---
TOTAL	319.3	330.4	1130	4835	1622	2501	1809	1570	425.0	84.5	402.9	616.4
MEAN	10.3	11.0	36.5	156	51.9	80.7	60.3	50.6	14.2	2.73	13.0	20.5
MAX	45	36	95	496	260	404	364	236	37	11	73	140
MIN	4.6	6.7	15	27	19	23	11	14	3.6	1.3	1.3	3.4
CAL YR 1978	TOTAL	15011.6	MEAN	41.1	MAX	467	MIN	1.5				
WTR YR 1979	TOTAL	15645.5	MEAN	42.9	MAX	496	MIN	1.3				

HOUSATONIC RIVER BASIN

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.302), 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).--57 years, 1918-24, 1928-79, 495 ft³/s (14.02 m³/s), 25.94 in/yr (659 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, 18,700 ft³/s (530 m³/s) Jan. 25, gage height, 13.78 ft (4.200 m); minimum, 123 ft³/s (3.48 m³/s) Aug. 2, 10, gage height, 1.46 ft (0.445 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	190	248	954	845	1060	660	1860	810	218	132	173
2	160	181	235	2730	690	930	670	1090	675	200	149	159
3	152	180	217	2940	655	870	850	920	574	161	264	228
4	146	170	375	1690	610	935	835	1050	557	160	960	194
5	157	165	508	899	570	1200	830	900	559	158	232	196
6	535	166	372	661	461	4100	750	775	553	151	177	830
7	336	194	295	696	465	2700	635	710	465	144	171	988
8	231	166	289	2910	473	2250	557	660	417	140	145	438
9	198	154	892	2710	445	3850	730	615	382	140	136	283
10	185	148	959	3130	417	4000	1050	578	354	140	202	297
11	175	139	525	3020	396	3080	905	525	340	142	306	225
12	171	139	432	2750	396	3120	735	465	392	142	754	187
13	161	138	401	3220	410	2960	660	596	340	140	1000	171
14	161	140	374	4730	389	2280	940	635	301	132	475	171
15	180	137	327	3110	396	1330	1190	645	272	150	303	223
16	175	151	306	675	354	960	1150	545	255	156	237	196
17	167	150	337	566	319	890	1090	453	242	132	205	177
18	162	287	325	540	313	820	880	417	242	228	212	165
19	163	224	272	448	331	775	765	428	225	196	337	159
20	187	196	271	489	344	750	670	424	207	156	420	151
21	180	182	518	2500	354	715	615	414	192	138	289	185
22	171	170	440	2460	509	705	574	372	192	132	235	1310
23	171	157	333	3270	497	795	549	536	185	138	200	730
24	167	201	298	1810	1490	805	525	1280	175	137	192	423
25	165	190	364	6290	1590	1120	509	1720	175	147	207	306
26	168	175	366	3450	2070	1020	570	3280	169	138	207	267
27	349	162	318	4130	2300	815	3150	2020	161	207	196	257
28	258	169	262	3470	1600	710	2740	1340	161	161	196	242
29	216	177	250	2350	---	680	3030	1390	161	144	181	253
30	195	349	249	1960	---	675	2160	1190	161	145	202	368
31	199	---	255	950	---	665	---	990	---	136	181	---
TOTAL	6217	5347	11653	71508	19689	47565	30974	28843	9894	5019	9103	9982
MEAN	201	178	376	2307	703	1534	1032	930	330	162	294	333
MAX	535	349	959	6290	2300	4100	3150	3280	810	322	1000	1310
MIN	146	137	217	448	313	665	509	372	161	132	132	151
(†)	-35.8	-40.0	-35.6	-2.6	-19.3	-7.8	+31.9	-57.4	-39.2	-48.9	-37.4	-26.3
MEAN ‡	165	138	340	2304	684	1526	1064	873	291	113	257	307
CFSM ‡	0.64	0.53	1.31	8.90	2.64	5.89	4.11	3.37	1.12	0.44	0.99	1.19
IN ‡	0.74	0.59	1.51	10.26	2.75	6.79	4.59	3.88	1.25	0.51	1.14	1.33

CAL YR 1978 TOTAL 210872 MEAN 578 MAX 4450 MIN 115 MEAN ‡ 547 CFSM ‡ 2.11 IN ‡ 28.63
WTR YR 1979 TOTAL 255794 MEAN 701 MAX 6290 MIN 132 MEAN ‡ 674 CFSM ‡ 2.60 IN ‡ 35.34

† 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

297

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
19...	1045	225	450	7.3	14.0	12.0	30	5.0	11.0	102	17000	920
NOV												
06...	1430	238	445	7.7	19.5	14.5	30	5.0	11.2	109	30000	9000
DEC												
11...	1520	601	218	6.9	-1.5	2.0	30	5.0	15.1	109	46000	1900
JAN												
09...	1515	3260	140	6.9	-2.0	1.0	20	7.0	13.8	97	14000	4900
FEB												
06...	1355	521	290	6.5	<-5.0	1.0	5	10	13.9	98	500	--
MAR												
06...	0905	5420	102	6.4	12.0	5.0	45	45	12.9	99	28000	12000
APR												
12...	1525	760	215	6.1	19.0	12.5	15	10	11.9	111	1300	44
MAY												
07...	1230	710	190	7.1	21.5	15.0	10	4.0	11.0	108	1600	84
JUN												
11...	1230	340	260	6.5	23.5	21.0	5	3.0	9.3	103	6100	700
JUL												
16...	1200	145	300	6.8	29.0	26.0	10	7.0	9.7	118	120000	4000
AUG												
06...	1210	173	275	6.6	30.0	25.0	11	3.0	8.4	100	780	310
SEP												
17...	1230	179	370	7.6	25.0	20.0	13	2.0	10.2	111	31000	12000

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											
19...	98	--	--	--	--	--	--	60	--	259	.35
NOV											
06...	34	--	--	--	--	--	--	72	--	257	.35
DEC											
11...	1900	42	25	12	2.9	17	22	30	6.7	116	.16
JAN											
09...	1900	--	--	--	--	--	--	--	--	74	.10
FEB											
06...	110	--	--	--	--	--	--	38	--	145	.20
MAR											
06...	26000	17	6	4.7	1.2	11	9.2	14	3.8	53	.07
APR											
12...	45	--	--	--	--	--	--	26	--	107	.15
MAY											
07...	44	38	24	11	2.6	14	21	28	6.2	111	.15
JUN											
11...	K72	--	--	--	--	--	--	40	--	162	.22
JUL											
16...	44	--	--	--	--	--	--	48	--	217	.30
AUG											
06...	48	61	45	19	3.2	16	28	44	6.3	186	.25
SEP											
17...	80	--	--	--	--	--	--	59	--	232	.32

< 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

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 19...	157	275	--	--	2.9	3.8	--	.90	4.7	7.6	34
NOV 06...	165	271	--	--	2.1	3.0	--	.80	3.8	5.9	26
DEC 11...	188	124	--	--	.78	1.1	--	.30	1.4	2.2	9.7
JAN 09...	651	100	--	--	.77	.25	--	.75	1.0	1.8	7.8
FEB 06...	204	157	--	--	1.1	1.2	--	.70	1.9	3.0	13
MAR 06...	776	211	--	--	.37	.28	--	1.1	1.4	1.8	7.8
APR 12...	220	112	--	--	.89	.69	--	.31	1.0	1.9	8.4
MAY 07...	213	120	--	--	.75	.70	.85	.40	1.1	1.9	8.2
JUN 11...	149	188	--	--	2.0	.53	.64	.67	1.2	3.2	14
JUL 16...	85.0	237	--	--	4.0	1.6	1.9	1.5	3.1	7.1	31
AUG 06...	86.9	198	--	--	1.9	1.3	1.6	1.1	2.4	4.3	19
SEP 17...	112	276	2.5	.17	2.7	2.9	3.5	.50	3.4	6.1	27

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 19...	.94	--	12	--	--	120	7.1	.00	--	--
NOV 06...	.77	--	43	--	--	50	17	--	--	--
DEC 11...	.20	--	23	180	100	60	7.3	.10	4.89	.000
JAN 09...	.15	--	19	--	--	50	8.2	--	--	--
FEB 06...	.37	--	36	--	--	120	4.1	--	--	--
MAR 06...	.39	--	17	170	100	30	4.9	.00	.000	.000
APR 12...	.22	--	29	--	--	70	5.4	--	--	--
MAY 07...	.16	.49	18	220	110	60	2.7	.00	7.07	.000
JUN 11...	.33	1.0	32	--	--	60	6.3	--	--	--
JUL 16...	1.5	4.6	41	--	--	50	7.6	--	--	--
AUG 06...	.42	1.3	32	150	190	70	8.6	.20	8.80	.000
SEP 17...	.57	1.7	37	--	--	30	4.2	--	--	--

HOUSATONIC RIVER BASIN

299

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 1978 TO SEPTEMBER 1979

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF ALAR (COLS. PER 100 ML)
OCT												
19...	0910	385	7.0	14.0	11.0	30	3.0	9.5	86	30000	3900	150
NOV												
06...	1320	430	7.3	19.0	12.0	40	6.0	10.6	100	23000	2300	72
DEC												
11...	1355	242	7.0	-1.0	4.0	35	6.0	13.7	104	34000	4100	2600
JAN												
09...	1415	142	6.9	-3.0	2.0	20	4.0	15.0	108	22000	3700	700
FEB												
06...	1515	240	6.7	<-3.0	2.0	10	5.0	13.7	100	1800	2100	280
MAR												
06...	1050	103	6.7	13.0	7.0	30	50	12.8	105	48000	24000	10000
APR												
12...	1420	205	5.9	17.5	11.5	10	10	11.5	104	8000	640	150
MAY												
07...	1430	195	7.2	20.0	16.0	10	6.0	9.7	98	6600	1000	540
JUN												
11...	1430	250	6.8	23.0	21.5	5	4.0	7.4	83	7200	940	220
JUL												
16...	1400	380	7.0	29.0	28.5	10	5.0	9.6	127	23000	100	20
AUG												
10...	1030	342	6.7	26.0	24.5	18	4.0	8.7	102	4500	740	180
SEP												
17...	1420	340	7.3	25.0	23.0	15	1.0	9.8	113	800	31	86

DATE	HARD- NESS (MG/L AS CaCO3)	MARU- 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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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											
19...	--	--	--	--	--	--	--	56	--	227	.31
NOV											
06...	--	--	--	--	--	--	--	59	--	249	.34
DEC											
11...	42	30	12	2.8	12	--	21	30	7.0	117	.16
JAN											
09...	--	--	--	--	--	--	--	19	--	77	.10
FEB											
06...	--	--	--	--	--	--	--	33	--	143	.19
MAR											
06...	17	0	4.9	1.2	13	--	9.5	16	3.9	63	.09
APR											
12...	--	--	--	--	--	--	--	25	--	112	.15
MAY											
07...	41	28	12	2.7	13	--	21	25	7.0	116	.16
JUN											
11...	--	--	--	--	--	--	--	35	--	156	.21
JUL											
16...	--	--	--	--	--	--	--	60	--	252	.34
AUG											
10...	73	42	23	3.7	31	12	42	52	6.5	221	.30
SEP											
17...	--	--	--	--	--	--	--	51	--	222	.30

< 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

01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS RESIDUE AT 100 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE 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 19...	240	--	--	4.4	1.8	--	.70	2.5	6.9	31
NOV 06...	234	--	--	3.5	1.9	--	1.0	2.9	6.4	28
DEC 11...	129	--	--	1.6	.95	--	.65	1.6	3.2	14
JAN 09...	97	--	--	.90	.27	--	.57	.84	1.7	7.7
FEB 06...	151	--	--	1.9	1.3	--	.60	1.9	3.8	17
MAR 06...	81	--	--	.44	.38	--	1.3	1.7	2.1	9.5
APR 12...	114	--	--	1.5	.88	--	.54	1.4	2.9	13
MAY 07...	125	--	--	1.4	.74	.90	.28	1.0	2.4	11
JUN 11...	197	--	--	3.1	.68	.82	.72	1.4	4.5	20
JUL 16...	252	--	--	4.9	.83	1.0	1.2	2.0	8.9	31
AUG 10...	238	--	--	3.2	.21	.25	2.0	2.2	5.4	24
SEP 17...	242	4.5	.38	4.9	.93	1.1	.97	1.9	6.8	30
DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P(04))	COPPER, DISS- SOLVED (UG/L AS CU)	IRON, DISS- SOLVED (UG/L AS FE)	MANGA- NESE, DISS- SOLVED (UG/L AS MN)	ZINC, DISS- 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 FLUORUM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUORUM (UG/L)
OCT 19...	.86	--	85	--	--	110	7.1	.20	--	--
NOV 06...	.69	--	110	--	--	90	7.0	--	--	--
DEC 11...	.43	--	16	190	110	60	7.0	.10	5.72	.000
JAN 09...	.10	--	13	--	--	70	4.7	--	--	--
FEB 06...	.41	--	50	--	--	130	4.4	--	--	--
MAR 06...	.73	--	20	140	100	40	14	.00	.000	.000
APR 12...	.33	--	35	--	--	90	5.9	--	--	--
MAY 07...	.33	1.0	28	220	140	70	6.3	.00	1.76	.000
JUN 11...	.60	1.8	47	--	--	80	9.2	--	--	--
JUL 16...	1.2	3.7	49	--	--	40	10	--	--	--
AUG 10...	.80	2.5	40	80	90	50	11	.20	41.4	6.93
SEP 17...	1.0	3.1	59	--	--	50	14	--	--	--

HOUSATONIC RIVER BASIN

301

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 1978 TO SEPTEMBER 1979

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 (DEG C)	COLOR (PLAT- INUM- CUBAL)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 18...	0830	3.0	2050	7.6	2.0	-2.0	3.5	20	5.0	13.7	102
MAR 13...	1130	3.0	157	7.7	--	7.0	4.0	20	8.0	13.7	104
MAY 10...	1535	3.0	2700	7.5	2.0	28.0	22.0	10	4.0	9.4	107
AUG 06...	1405	3.0	33000	7.4	23.0	28.0	25.0	5	3.0	5.9	70

DATE	COLI- FORM, TOTAL IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- 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- LINE- ITY (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)
DEC 18...	1300	250	48	460	390	45	85	73	170	1100	3.4
MAR 13...	3900	580	460	41	15	10	3.8	26	13	25	.1
MAY 10...	680	60	88	330	270	33	60	57	130	830	3.9
AUG 06...	800	100	60	3200	3100	210	640	54	1100	8400	1.6

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, 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)
DEC 18...	2160	2.94	2240	.71	.40	--	.44	.84	1.6	6.9
MAR 13...	93	.13	107	.43	.13	--	.56	.69	1.1	5.0
MAY 10...	1760	2.31	1760	.29	.10	.12	.53	.63	.92	4.1
AUG 06...	17800	24.2	14300	.33	.29	.35	.30	.59	.92	4.1

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 FLUORUM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUORUM (UG/L)
DEC 18...	.15	--	13	90	60	30	3.6	.10	2.81	.000
MAR 13...	.07	--	7	0	40	10	4.2	.00	.000	.000
MAY 10...	.06	.18	7	30	0	10	7.0	.10	12.9	.000
AUG 06...	.16	.49	9	180	180	60	3.2	.60	4.45	.000

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

HOUSATONIC RIVER BASIN

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.

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 1978 TO SEPTEMBER 1979							
	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, 1978....	5654	190	69.7	1455	240.2	.5	116.2
Oct. 31.....	5606	191	61.6	1376	303.3	.5	111.7
Nov. 30.....	5511	130	69.5	1507	303.3	.8	116.2
Dec. 31.....	5133	156	62.6	1440	294.1	.7	116.2
Jan. 31, 1979....	5871	98.6	312	1590	321.6	7.3	116.2
Feb. 28.....	5016	97.6	360	1327	213.6	7.2	116.2
Mar. 31.....	5702	98.4	363	1455	244.6	1.4	116.2
Apr. 30.....	5957	99.2	365	1575	381.9	5.3	116.2
May 31.....	6064	101.1	366	1605	244.6	6.7	116.2
June 30.....	5740	70.7	360	1629	285.1	.6	116.2
July 31.....	5726	61.3	295	1613	330.8	.5	108.4
Aug. 31.....	5774	49.1	266	1621	298.7	.6	116.2
Sept. 30.....	5726	98.4	308	1660	294.1	1.2	116.2
Date	01205650 EAST BRANCH DETENTION RESERVOIR	01206600 THOMASTON RESERVOIR	01206940 NORTHFIELD BROOK LAKE	01207000 PITCH RESERVOIR	01207500 MORRIS RESERVOIR		
Sept. 30, 1978....	.1	.2	4.6	189.8	257.0		
Oct. 31.....	.1	.2	5.0	189.2	236.4		
Nov. 30.....	.1	.2	3.5	189.6	235.5		
Dec. 31.....	.1	.2	3.5	188.9	267.4		
Jan. 31, 1979....	.1	2.2	3.4	187.1	267.5		
Feb. 28.....	.1	18.5	3.8	189.5	267.8		
Mar. 31.....	.1	.5	4.7	189.7	267.6		
Apr. 30.....	.1	92.7	5.1	189.5	268.1		
May 31.....	.1	.9	5.0	189.5	267.7		
June 30.....	0	.2	4.9	189.6	252.7		
July 31.....	0	.2	5.0	189.8	246.3		
Aug. 31.....	.1	.2	4.8	189.4	264.8		
Sept. 30.....	.1	.3	5.7	182.9	243.1		
Date	01208000 WIGWAM RESERVOIR	01208011 BLACK ROCK LAKE	01208130 HANCOCK BROOK LAKE	01208410 HOP BROOK LAKE			
Sept. 30, 1978...	97.6	13.0	7.8	.8			
Oct. 31.....	98.8	11.6	8.1	.8			
Nov. 30.....	98.8	10.5	5.6	.8			
Dec. 31.....	99.5	10.4	5.6	.8			
Jan. 31, 1979 ..	99.0	11.3	5.7	1.4			
Feb. 28.....	99.6	12.2	6.6	1.0			
Mar. 31.....	99.4	13.4	5.7	.8			
Apr. 30.....	99.5	13.9	9.5	6.3			
May 31.....	99.0	13.5	5.7	5.8			
June 30.....	98.8	12.2	7.8	5.5			
July 31.....	98.5	13.2	7.8	5.2			
Aug. 31.....	98.3	13.2	7.8	5.4			
Sept. 30.....	99.0	13.3	7.8	.8			

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 good, stage sometimes affected by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 21, 1979, gage height 11.34 ft (3.456 m); minimum, 0.92 ft³/s (0.026 m³/s) Aug. 9, 1979, gage height, 2.71 ft (0.826 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 21, gage height, 11.34 ft (3.456 m); minimum, 0.92 ft³/s (0.026 m³/s) Aug. 9, gage height, 2.71 ft (0.826 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.0	5.0	20	21	20	11	26	23	9.7	2.2	3.0
2	2.1	2.2	4.0	75	17	14	22	22	21	6.6	2.3	2.4
3	2.3	2.9	3.2	40	13	16	14	24	54	5.9	2.3	2.9
4	3.0	2.9	17	17	12	16	13	24	29	9.5	4.8	4.6
5	2.2	2.6	19	13	8.8	16	16	17	56	5.9	2.5	4.1
6	16	2.6	5.9	11	9.7	411	16	16	27	5.0	2.5	41
7	4.8	2.4	4.8	49	6.0	122	12	14	19	4.8	1.9	5.4
8	2.9	2.5	24	133	5.0	56	12	14	17	4.6	1.6	5.3
9	2.7	2.3	85	37	3.8	39	43	13	15	4.4	1.5	3.1
10	2.6	1.9	23	24	4.6	33	37	14	14	4.3	2.5	3.2
11	2.5	2.5	11	18	5.5	73	13	11	16	4.1	16	3.3
12	2.3	2.0	4.8	14	2.9	31	12	14	13	4.1	87	2.9
13	2.2	2.2	8.5	55	1.8	24	11	18	11	4.0	36	2.9
14	6.0	2.0	7.6	51	2.2	22	38	23	10	3.8	6.0	9.3
15	2.9	1.9	6.4	18	1.5	16	26	15	9.7	3.8	5.5	4.8
16	2.7	2.6	5.9	15	1.4	15	22	11	9.1	4.3	4.9	2.9
17	2.1	14	14	14	2.0	13	18	10	58	140	3.7	2.5
18	1.6	36	6.6	11	1.6	12	15	12	15	11	16	2.3
19	2.1	5.0	5.5	21	1.8	17	14	18	41	5.0	15	2.4
20	2.2	4.1	6.0	17	2.1	17	13	11	10	5.3	5.6	2.2
21	1.6	3.2	24	858	3.0	16	12	9.7	9.3	4.6	4.5	81
22	1.4	3.4	7.4	45	7.0	16	11	8.8	8.4	4.3	4.2	116
23	1.5	4.1	6.4	54	2.2	15	11	105	9.1	3.8	4.0	9.2
24	1.9	19	5.9	152	164	38	10	86	7.4	3.7	4.9	5.5
25	1.9	3.7	90	259	71	18	10	182	7.0	4.0	44	5.0
26	22	3.2	15	67	517	14	28	59	6.8	3.7	9.8	4.3
27	45	3.4	10	47	40	12	210	38	6.8	3.4	5.3	3.8
28	4.0	6.6	4.6	40	26	12	63	36	6.8	3.3	4.7	3.6
29	2.5	4.1	7.0	33	---	15	44	30	6.6	3.2	4.1	3.3
30	3.0	26	6.6	26	---	12	32	47	25	4.0	3.9	15
31	2.9	---	8.2	24	---	11	---	32	---	2.8	3.4	---
TOTAL	158.3	174.3	460.9	2298	953.9	1169	811	960.5	561.0	286.9	312.9	383.7
MEAN	5.11	5.81	14.9	74.1	34.1	37.7	27.0	31.0	18.7	9.25	10.1	12.8
MAX	45	36	90	858	517	411	210	182	58	140	87	116
MIN	1.4	1.9	3.8	11	1.4	11	10	8.8	6.6	2.8	1.5	2.2
CAL YR 1978 TOTAL	6925.7		MEAN 19.0	MAX 520	MIN 1.4							
WTR YR 1979 TOTAL	8530.4		MEAN 23.4	MAX 858	MIN 1.4							

MILL RIVER BASIN

305

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.--7 years, 46.4 ft³/s (1.31 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.8 m³/s) Jan. 21, 1979, gage height 6.45 ft (1.966 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 16, 1974, Sept. 12-16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.8 m³/s) Jan. 21, gage height 6.45 ft (1.966 m); minimum, 2.5 ft³/s (0.071 m³/s) July 28, 29, gage height 0.91 ft (0.277 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	7.6	21	36	79	94	26	151	72	21	35	3.0
2	4.3	6.4	18	77	90	78	30	128	58	14	36	2.6
3	3.5	6.4	15	118	62	69	42	107	76	11	36	13
4	3.9	6.4	25	70	52	63	43	108	75	12	42	5.8
5	3.9	5.3	35	35	48	63	47	95	76	11	41	3.9
6	56	7.6	24	32	38	675	47	66	96	10	39	20
7	15	7.0	21	66	42	800	46	57	70	8.8	39	12
8	10	5.8	25	200	42	426	28	52	54	8.1	35	7.4
9	8.1	5.8	95	140	38	240	39	48	48	6.5	8.1	5.1
10	7.6	5.8	67	96	31	173	70	45	44	7.4	3.0	5.1
11	6.4	5.3	37	64	30	250	46	41	41	7.4	5.1	5.1
12	5.8	5.8	30	44	28	193	39	38	46	7.4	38	3.9
13	5.8	5.3	27	58	25	141	31	45	38	6.5	42	4.5
14	7.6	4.8	25	90	21	122	63	54	33	6.5	9.6	94
15	7.6	4.8	23	64	20	120	90	56	30	6.5	6.5	117
16	5.8	5.3	21	48	19	95	81	46	30	5.8	4.5	65
17	5.3	10	27	40	17	85	72	39	44	12	3.0	42
18	4.8	39	24	55	16	84	57	36	39	12	5.8	5.8
19	5.3	17	19	46	18	67	47	42	43	5.1	14	5.1
20	6.4	13	19	45	17	63	39	41	28	3.9	7.4	4.5
21	5.8	11	33	762	20	53	34	35	24	3.9	4.5	11
22	6.4	10	26	677	29	50	30	29	22	3.4	3.4	20
23	6.4	9.4	24	292	25	53	29	51	24	3.4	3.0	18
24	5.8	23	23	230	148	45	26	174	21	3.4	3.4	45
25	4.3	17	79	759	176	61	25	438	20	3.4	16	52
26	7.6	13	45	496	371	58	36	369	17	3.4	19	39
27	26	13	35	273	223	52	522	183	16	3.0	6.5	14
28	13	13	30	177	124	39	473	123	16	2.3	4.5	7.4
29	10	14	25	141	---	50	297	104	16	2.3	3.9	6.5
30	8.8	31	23	117	---	70	179	99	19	2.3	3.4	8.1
31	7.6	---	24	107	---	29	---	97	---	3.9	3.4	---
TOTAL	280.1	328.8	465	5455	1849	4461	2634	2997	1236	217.6	521.0	645.8
MEAN	9.04	11.0	31.1	176	66.0	144	87.8	96.7	41.2	7.02	16.8	21.5
MAX	56	39	95	762	371	800	522	438	96	21	42	117
MIN	3.5	4.8	15	32	16	29	25	29	16	2.3	3.0	2.6
CAL YR 1978	TOTAL	16858.6	MEAN	46.2	MAX	747	MIN	3.2				
WTR YR 1979	TOTAL	21590.3	MEAN	59.2	MAX	800	MIN	2.3				

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.--15 years, 13.7 ft³/s (0.388 m³/s), 25.59 in/yr (650 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 140 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)
Jan. 8	--	Unknown	Unknown	Mar. 6	1830	*512 14.5	*4.39 1.338
21	--	Unknown	Unknown	Apr. 27	1430	350 9.91	3.82 1.164
25	0530	350 9.91	3.82 1.164	May 25	1430	229 6.48	3.27 0.997

Minimum discharge, 0.58 ft³/s (0.016 m³/s) Aug. 2, 3, gage height, 0.98 ft (0.299 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.9	12	15	23	30	14	33	18	4.4	.66	1.5
2	1.3	2.7	7.8	27	19	29	15	26	15	3.5	.58	1.3
3	1.2	2.7	6.3	58	18	27	21	24	30	2.7	.58	4.4
4	1.1	2.7	12	44	17	25	17	27	33	2.5	1.9	3.2
5	1.9	2.9	17	30	15	25	18	21	24	2.7	1.9	2.1
6	30	2.9	12	20	14	329	15	18	28	2.3	1.1	14
7	10	2.7	4.6	50	11	208	13	16	18	1.9	1.0	10
8	4.7	2.7	9.0	135	10	84	12	16	15	1.8	.76	5.5
9	3.7	2.7	9.2	90	9.7	53	22	15	14	1.6	.66	3.5
10	2.9	2.7	34	58	9.2	44	29	15	13	1.5	.66	2.5
11	2.7	2.7	33	37	8.8	79	16	15	13	1.5	.76	1.8
12	2.5	2.7	21	25	8.4	48	14	13	14	1.5	13	1.5
13	2.5	2.7	15	37	7.8	36	13	16	11	1.2	21	1.2
14	3.5	2.5	12	52	7.6	34	31	21	9.0	1.0	4.7	1.2
15	3.7	2.7	10	42	7.0	29	36	21	7.3	1.0	2.7	2.3
16	3.2	2.9	9.0	33	6.6	24	27	15	6.3	1.0	1.9	1.8
17	2.9	5.1	11	26	6.2	24	22	12	7.3	2.7	1.5	1.3
18	2.7	19	9.8	22	5.9	22	18	12	10	12	1.8	1.3
19	2.7	12	9.0	26	6.3	20	16	15	12	2.9	8.4	1.1
20	2.7	6.8	8.2	18	7.0	19	14	13	6.8	1.9	5.5	1.0
21	2.9	5.1	14	310	10	18	14	12	4.7	1.5	3.5	4.0
22	2.7	4.4	12	92	10	17	13	9.6	4.4	1.2	2.7	56
23	2.7	4.4	10	54	11	16	13	24	4.7	1.1	1.9	16
24	2.9	9.6	9.0	61	45	17	12	105	4.0	1.1	1.8	7.8
25	2.7	8.4	25	227	70	23	12	139	3.7	1.0	3.2	4.7
26	3.2	5.5	22	87	110	17	19	73	2.9	1.0	12	4.4
27	12	4.7	27	54	55	15	218	35	2.7	.87	4.7	4.0
28	5.5	5.1	14	42	34	14	104	27	2.7	.66	3.2	3.7
29	3.7	5.9	11	36	---	15	74	24	2.7	.66	2.7	3.7
30	3.5	17	9.0	30	---	15	41	25	2.9	.66	2.3	7.3
31	3.2	---	9.0	27	---	14	---	24	---	.66	1.9	---
TOTAL	132.0	156.8	428.9	1868	562.5	1370	903	861.6	340.1	62.01	110.96	174.1
MEAN	4.26	5.23	13.8	60.3	20.1	44.2	30.1	27.8	11.3	2.00	3.58	5.80
MAX	30	19	34	310	110	329	218	139	33	12	21	56
MIN	1.1	2.5	6.3	16	5.9	14	12	9.6	2.7	.66	.58	1.0
CFSM	.59	.72	1.90	8.29	2.77	6.08	4.14	3.82	1.55	.28	.49	.80
IN.	.68	.80	2.19	9.56	2.88	7.01	4.62	4.41	1.74	.32	.57	.89

CAL YR 1978 TOTAL 6018.90 MEAN 16.5 MAX 366 MIN .84 CFSM 2.27 IN 30.79
WTR YR 1979 TOTAL 6969.97 MEAN 19.1 MAX 329 MIN .58 CFSM 2.63 IN 35.66

SAUGATUCK RIVER BASIN

307

01208990 SAUGATUCK RIVER NEAR REDDING, CT

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.

DRAINAGE AREA.--20.8 mi² (53.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- Occasional low-flow measurements, water years 1961-64, and annual maximum, water years 1962-64. October 1964 to current year.

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 42.4 ft³/s (1.201 m³/s), 27.68 in/yr (703 mm/yr).

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).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 180 ft³/s (5.10 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)
Jan. 2	2130	242	6.85	Mar. 6	1700	767	21.7
8	0700	360	10.2	11	0930	251	7.11
21	1030	*1040	29.5	Apr. 27	0730	520	14.7
25	0200	970	27.5	May 25	1130	400	11.3
Feb. 26	1100	380	10.8				

Minimum discharge, 1.8 ft³/s (0.051 m³/s) Aug. 10, gage height, 0.95 ft (0.290 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	9.0	24	89	82	85	46	139	48	13	2.4	13
2	5.1	8.1	20	148	71	82	44	112	41	11	2.2	9.5
3	5.1	7.3	18	189	63	73	52	97	41	9.7	3.9	11
4	4.5	7.3	28	148	50	66	48	100	43	8.7	6.4	12
5	9.0	7.0	32	105	48	72	52	85	55	8.5	4.6	8.7
6	4.9	7.0	25	81	45	54.6	44	72	78	7.6	3.2	5.4
7	22	7.0	20	86	35	51.8	39	62	51	7.1	2.6	7.8
8	14	7.3	25	314	35	292	35	56	40	8.5	2.4	5.5
9	10	7.8	97	215	33	197	52	51	34	4.0	2.3	30
10	7.5	10	91	162	31	162	71	46	29	6.7	2.0	18
11	7.3	9.3	70	119	29	223	51	44	29	6.7	2.1	11
12	9.3	8.4	51	110	26	169	43	40	35	6.7	12	8.7
13	7.5	7.5	50	82	24	133	38	46	26	6.0	3.8	6.9
14	7.0	7.0	45	137	23	125	65	46	22	5.4	19	6.0
15	7.8	6.7	37	96	22	110	86	45	20	4.8	13	6.4
16	7.0	7.5	34	73	22	90	82	37	19	4.4	9.0	5.8
17	6.5	11	40	61	20	82	77	31	18	4.3	6.9	5.4
18	8.1	32	33	54	20	73	63	30	19	6.0	5.4	5.0
19	9.0	18	32	125	20	65	52	34	18	4.5	10	4.6
20	9.0	15	25	148	19	58	46	33	15	6.7	8.7	4.3
21	7.8	16	48	571	19	52	41	29	13	5.2	6.7	5.0
22	7.3	14	38	365	26	50	38	25	11	4.3	5.4	9.9
23	6.7	14	32	215	30	47	37	46	10	4.4	4.4	70
24	6.2	23	30	228	130	55	35	148	9.5	6.9	4.4	50
25	7.8	18	54	730	170	121	34	260	9.0	5.8	9.5	31
26	9.3	14	48	391	290	84	53	197	8.3	5.2	12	23
27	19	11	39	240	152	67	391	123	8.3	4.3	7.4	18
28	15	12	36	174	102	58	341	97	8.0	3.4	5.6	14
29	13	13	38	141	---	57	263	81	8.0	3.0	5.0	14
30	11	30	25	115	---	54	184	65	8.0	2.9	14	15
31	11	---	27	99	---	50	---	57	---	2.6	17	---
TOTAL	323.3	365.2	1212	5811	1637	3916	2503	2334	774.1	196.3	247.5	696.3
MEAN	10.4	12.2	39.1	187	58.5	126	83.4	75.3	25.8	6.33	7.98	23.2
MAX	49	32	97	730	290	546	391	260	78	13	38	99
MIN	4.5	6.7	18	54	19	47	34	25	8.0	2.6	2.0	4.3
CFSM	.50	.59	1.88	8.99	2.81	6.06	4.01	3.62	1.24	.30	.38	1.12
IN.	.58	.65	2.17	10.39	2.93	7.00	4.48	4.17	1.38	.35	.44	1.25

CAL YR 1978	TOTAL	17407.2	MEAN 47.7	MAX 560	MIN 3.1	CFSM 2.29	IN 31.13
WTR YR 1979	TOTAL	20015.7	MEAN 54.8	MAX 730	MIN 2.0	CFSM 2.64	IN 35.80

SAUGATUCK RIVER BASIN

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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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, 0.7 UM-MF (COLS./ 100 ML)
OCT												
17...	0815	4.6	140	7.2	2.0	7.0	50	1.0	10.6	87	40	K8
NOV												
08...	0810	4.8	205	7.3	8.5	8.0	25	2.0	10.7	90	400	88
DEC												
13...	1400	51	162	7.3	4.5	1.0	30	2.0	13.7	96	220	42
JAN												
11...	0850	122	47	7.2	<-5.0	.5	20	1.0	13.7	95	20	K17
FEB												
08...	0850	37	175	6.8	<-5.0	.5	10	2.0	14.4	100	K16	K16
MAR												
09...	1240	192	112	7.1	11.0	4.0	15	4.0	13.2	100	170	K12
APR												
11...	1630	54	150	6.3	15.0	9.0	15	1.0	10.0	86	100	K7
MAY												
09...	1330	50	147	7.1	30.0	20.0	20	2.0	9.4	102	2900	K17
JUN												
13...	1230	28	155	7.0	22.0	17.0	20	2.0	9.8	101	820	88
JUL												
19...	0825	9.3	190	7.3	20.0	22.5	10	3.0	8.6	98	16000	160
AUG												
09...	0835	2.6	149	6.9	22.5	20.0	19	2.0	8.8	96	2300	110
SEP												
20...	0845	4.7	190	7.7	8.0	12.0	13	1.0	10.6	98	140	K12

DATE	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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...	K3	--	--	--	--	--	--	--	13	--	111	.15
NOV												
08...	K5	--	--	--	--	--	--	--	14	--	122	.17
DEC												
13...	K9	60	15	16	4.9	45	--	12	13	7.6	97	.13
JAN												
11...	40	--	--	--	--	--	--	--	14	--	100	.14
FEB												
08...	K4	--	--	--	--	--	--	--	14	--	107	.15
MAR												
09...	26	36	13	9.8	2.9	23	--	10	11	6.6	65	.09
APR												
11...	<1	--	--	--	--	--	--	--	13	--	88	.12
MAY												
09...	K5	56	17	15	4.5	39	--	11	10	4.8	86	.12
JUN												
13...	72	--	--	--	--	--	--	--	11	--	93	.13
JUL												
19...	190	--	--	--	--	--	--	--	11	--	124	.17
AUG												
09...	160	82	13	22	6.5	69	17	7.6	10	5.9	118	.16
SEP												
20...	40	--	--	--	--	--	--	--	12	--	119	.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

309

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DISSOLVED (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...	1.38	116	--	--	.04	.03	--	.11	.14	.18	.80
NOV 08...	1.58	127	--	--	.02	.00	--	.12	.12	.14	.62
DEC 13...	13.4	96	--	--	.15	.02	--	.14	.16	.31	1.4
JAN 11...	32.9	108	--	--	.32	.00	--	.24	.24	.56	2.5
FEB 08...	10.7	111	--	--	.33	.01	--	.05	.06	.39	1.7
MAR 09...	33.7	77	--	--	.22	.02	--	.27	.29	.51	2.3
APR 11...	12.8	88	--	--	.13	.03	--	.23	.26	.39	1.7
MAY 09...	11.6	95	--	--	.07	.03	.04	.17	.20	.27	1.2
JUN 13...	7.03	114	--	--	.19	.01	.01	.26	.27	.46	2.0
JUL 19...	3.11	147	--	--	.16	.03	.04	.42	.45	.61	2.7
AUG 09...	.83	122	--	--	.04	.01	.01	.16	.17	.21	.93
SEP 20...	1.51	127	.05	.00	.05	.00	.00	.23	.23	.28	1.2

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...	.01	--	67	--	--	0	4.9	.00	--	--
NOV 08...	.00	--	1	--	--	10	6.9	--	--	--
DEC 13...	.01	--	0	100	60	10	14	.00	.000	.000
JAN 11...	.00	--	2	--	--	20	6.7	--	--	--
FEB 08...	.02	--	1	--	--	10	5.9	--	--	--
MAR 09...	.01	--	1	50	8	10	9.3	.00	.000	.000
APR 11...	.01	--	1	--	--	20	3.4	--	--	--
MAY 09...	.02	.06	1	130	20	0	7.7	.00	3.85	.000
JUN 13...	.03	.09	3	--	--	10	3.9	--	--	--
JUL 19...	.02	.06	2	--	--	10	5.4	--	--	--
AUG 09...	.02	.06	2	70	10	3	13	.00	.000	.000
SEP 20...	.01	.03	2	--	--	10	4.8	--	--	--

NORWALK RIVER BASIN

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.--17 years, 57.6 ft³/s (1.631 m³/s), 26.07 in/yr (662 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,660 ft³/s (103 m³/s) Jan. 21, 1979, gage height, 5.70 ft (1.737 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)
Jan. 8	1400	600 17.0	3.10 0.944	Mar. 6	1800	2230 63.2	4.80 1.463
21	1230	*3660 103	*5.70 1.737	Apr. 27	1200	798 22.6	3.36 1.024
25	0530	1560 44.2	4.16 1.268	May 25	1730	546 15.5	3.02 .920
Feb. 26	0930	758 21.5	3.31 1.009				

Minimum discharge, 3.1 ft³/s (0.087 m³/s) Aug. 9, gage height 1.12 ft (0.341 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	11	33	75	121	131	67	171	82	28	5.3	6.8
2	7.1	9.9	27	155	99	119	68	144	70	17	5.7	5.8
3	6.9	9.4	25	228	88	108	86	126	84	20	7.6	20
4	5.3	9.0	35	123	81	101	79	128	97	16	7.0	14
5	9.4	9.0	43	94	73	108	84	114	77	16	8.1	10
6	67	9.4	34	79	73	1400	63	97	112	13	8.3	52
7	28	9.0	29	83	58	905	51	79	79	11	6.1	40
8	24	8.5	32	533	56	390	47	75	65	11	5.3	23
9	19	9.0	133	273	53	283	77	68	55	10	3.6	16
10	16	8.5	125	179	50	231	94	63	48	9.4	4.8	11
11	15	8.0	79	125	48	322	67	62	43	9.4	11	8.5
12	12	7.5	60	97	45	220	67	54	54	8.9	22	6.8
13	8.5	8.0	49	118	44	174	57	63	43	7.9	19	5.8
14	9.4	8.0	43	206	42	168	110	68	36	6.9	15	5.8
15	9.4	7.5	38	130	39	152	124	70	31	6.5	13	11
16	8.5	8.5	34	104	37	124	114	55	27	6.5	9.7	8.1
17	8.0	13	43	87	35	119	105	48	25	6.5	7.3	6.2
18	8.0	57	37	81	34	112	86	44	36	16	8.5	5.8
19	8.0	32	32	104	32	97	77	54	37	20	37	5.3
20	8.5	24	29	64	32	94	65	52	28	25	25	4.6
21	8.0	20	55	1680	35	82	58	45	24	23	15	16
22	8.0	17	45	579	48	79	55	40	21	18	12	142
23	8.0	15	38	302	49	73	54	47	21	10	9.0	70
24	8.5	35	33	317	179	81	46	260	19	11	8.0	55
25	8.0	26	101	1100	239	163	47	333	17	16	15	40
26	9.4	21	67	412	440	112	81	283	16	11	48	28
27	25	16	50	312	210	92	600	165	15	8.1	22	21
28	18	18	40	231	152	79	385	133	13	7.0	14	16
29	15	18	35	177	---	79	317	112	13	6.1	12	15
30	13	42	33	152	---	75	213	99	13	6.1	10	17
31	13	---	34	136	---	68	---	99	---	5.7	8.4	---
TOTAL	419.2	496.2	1491	8336	2492	6341	3446	3251	1301	387.0	402.7	686.5
MEAN	13.5	16.5	48.1	269	89.0	205	115	105	43.4	12.5	13.0	22.9
MAX	67	57	133	1680	440	1400	600	333	112	28	48	142
MIN	5.3	7.5	25	64	32	68	47	40	13	5.7	3.6	4.6
CFSM	.45	.55	1.60	8.97	2.97	6.83	3.33	3.50	1.45	.42	.43	.76
IN.	.52	.62	1.85	10.34	3.09	7.26	4.27	4.03	1.61	.48	.50	.85

CAL YR 1978 TOTAL 25635.0 MEAN 70.2 MAX 1290 MIN 5.3 CFSM 2.34 IN 31.79
WTR YR 1979 TOTAL 29049.5 MEAN 79.6 MAX 1680 MIN 3.6 CFSM 2.65 IN 36.02

LONG ISLAND SOUND

311

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.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	6.46	5.68	8.21	6.56	6.29	5.56	6.40	5.94	5.81	5.88	6.10	6.65
high tide													
	Date	4	13,27	25	26	25	25	26	25	11	12	7	6
	Time	1230	0930, 2130	0545	0900	2200	2100	2315	2245	2345	0030	2245	1100
Minimum	Elevation	-4.21	-4.25	-5.47	-5.21	-5.79	-5.40	-4.78	-4.02	-4.50	-4.42	-4.30	-5.04
low tide													
	Date	31	2	28	4	6	28	7	15	14	10	9	29
	Time	1700	1815	0345	2230	0030	0530	0100	0800	0830	0545	0600	0515

NOTE.--Time shown is eastern standard.

RIPPOWAM RIVER BASIN

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. 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 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)
Jan. 21	0830	* 1580 44.7	* 5.73 1.746	Jan. 25	0400	1020 28.9	4.98 1.517
Mar. 6	1700	1370 38.8	5.47 1.667				

Minimum discharge, 3.1 ft³/s (0.27 m³/s) July 20, gage height, 1.97 ft (0.600 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.6	28	29	96	91	40	131	48	8.1	6.6	8.1
2	4.4	5.7	23	64	81	81	40	103	35	9.5	5.9	8.5
3	4.4	5.7	20	85	75	71	50	85	48	7.3	17	18
4	4.1	5.7	30	37	71	67	41	83	79	8.1	13	12
5	3.6	5.8	38	29	58	66	44	71	67	8.5	9.0	9.5
6	51	6.5	29	29	44	943	41	58	71	7.0	22	41
7	10	6.1	24	46	41	858	35	52	44	7.3	18	24
8	6.5	5.8	36	277	43	366	29	41	32	6.2	12	16
9	5.4	6.5	109	140	36	238	47	34	25	5.9	10	12
10	5.1	6.1	79	75	31	200	73	28	23	5.9	9.5	10
11	4.4	5.9	37	46	24	267	58	23	24	7.0	15	9.0
12	4.4	5.7	25	36	25	209	44	22	26	7.0	50	8.5
13	4.4	5.7	23	50	21	150	35	26	21	5.9	60	9.5
14	6.1	5.7	23	100	19	125	81	33	20	5.9	29	9.5
15	5.4	5.8	20	50	17	105	118	39	19	5.2	17	9.5
16	4.1	6.1	19	34	16	94	113	32	18	5.2	17	6.2
17	4.8	19	25	30	16	82	105	25	16	7.0	15	6.6
18	4.4	48	24	28	14	76	79	25	15	13	17	7.0
19	4.8	24	23	31	13	72	60	35	13	7.3	30	7.3
20	5.4	16	21	21	13	64	47	27	13	4.1	19	6.6
21	5.1	14	44	950	15	56	39	23	12	4.1	15	27
22	5.1	12	33	499	21	50	37	20	10	5.5	14	118
23	4.4	12	27	260	20	45	35	73	11	4.6	12	37
24	5.1	28	25	317	122	53	30	250	8.5	3.6	13	21
25	5.1	22	105	790	136	64	26	267	7.7	6.6	12	16
26	6.1	18	53	460	344	56	33	232	7.0	7.3	16	12
27	16	16	32	287	222	49	302	150	6.2	9.5	13	11
28	7.2	18	22	216	136	46	369	96	5.9	7.0	10	10
29	6.8	18	19	167	---	45	270	69	6.2	6.2	11	10
30	6.1	42	19	136	---	44	180	62	6.6	7.3	10	13
31	5.4	---	19	109	---	42	---	62	---	5.9	8.5	---
TOTAL	220.2	401.4	1054	5428	1770	4775	2501	2277	738.1	209.0	526.5	513.8
MEAN	7.10	13.4	34.0	175	63.2	154	83.4	73.5	24.6	6.74	17.0	17.1
MAX	51	48	109	950	344	943	369	267	79	13	60	118
MIN	3.6	5.6	19	21	13	42	26	20	5.9	3.6	5.4	6.2
CAL YR 1978 TOTAL	21178.4		MEAN 58.0	MAX 858	MIN 3.6							
WTR YR 1979 TOTAL	20414.0		MEAN 55.9	MAX 950	MIN 3.6							

LONG ISLAND SOUND

313

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 1978 TO SEPTEMBER 1979

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 (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 18...	1115	5.0	38200	7.7	24.0	8.0	4.0	5	4.0	12.8	97
MAR 13...	1340	5.0	--	7.4	--	7.0	4.0	5	5.0	13.5	102
MAY 10...	1330	5.0	28000	7.3	17.0	28.0	13.0	5	3.0	9.5	90
AUG 09...	1110	5.0	39000	7.5	25.0	24.5	21.5	2	2.0	7.1	80

DATE	TIME	COLI- FORM, TOTAL, IMMED. (COLS./ 100 ML)	COLI- FORM, FECAL, UM-4F (COLS./ 100 ML)	STREP- TOCUCCI KF AGAR (COLS./ 100 ML)	HARD- NESS (MG/L AS CACU3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACU3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINEITY (MG/L AS CACU3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 18...	560	120	KH	4700	4700	350	940	94	--	2500	15000	
MAR 13...	K12	K4	K3	3300	3200	250	640	84	--	1300	9700	
MAY 10...	240	48	<1	3600	3500	230	740	92	--	1400	11000	
AUG 09...	--	200	<1	4900	4800	310	990	94	5.8	2100	13000	

DATE	TIME	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	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 NH4)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
DEC 18...	1.2	27500	37.4	29200	.27	.49	--	.05	.54	.81	3.6
MAR 13...	4.3	18400	25.0	27000	.51	1.7	--	.90	2.6	3.1	14
MAY 10...	2.3	22100	30.1	23800	.26	1.8	--	.70	2.5	2.8	12
AUG 09...	2.0	28000	35.1	31300	.10	.18	.22	.10	.28	.38	1.7

DATE	TIME	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)
DEC 18...		.38	--	0	40	40	30	4.9	.80	.000	.000
MAR 13...		.40	--	13	0	120	70	4.4	.60	.000	.000
MAY 10...		.35	--	6	30	80	60	4.2	.60	.000	.000
AUG 09...		.16	.49	4	300	100	70	3.7	.90	17.6	.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 1979							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (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	1962-79	1-25-79	4.23	300
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	1960-79	1-25-79	4.23	410
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	1964-79	1-25-79	4.92	150
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†, 1972-79	9-21-38, 1-25-79	16.25, 15.14	6450, 5450
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	1964-79	4-02-70, 1-25-79	4.60, 4.17	850, 570
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	1962-79	1-26-78, 1-25-79	5.54, 4.40	580, 335
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	1964-79	4-02-70, 1-21-79	5.16, 3.80	850, 330
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	1964-79	1-26-78, 1-25-79	4.51, 4.09	950, 650
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‡, 1972-79	7-24-38, 1-25-79	8.52, 6.90	2480, 1640

† Operated as a continuous-record gaging station.

‡ Peak-flow determination.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

315

Annual maximum discharge at crest-stage partial-record stations during water year 1979--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†, 1972-79	3-12-36 1-25-79	8.35 7.05	4260 2980
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	1961-79	1-21-79	4.28	186
Connecticut River basin							
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	1960-79	9-27-75 1-25-79	4.82 4.16	830 560
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	1964-79	12-21-73 1-25-79	5.92 4.44	620 300
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†, 1970-79	9-27-75 1-25-79	6.38 5.23	375 250
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†, 1972-79	8-19-55 1-27-78 1-25-79	19.9 10.64 10.49	13,300 2120(rev) 2050
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†, 1973-79	8-19-55 1-25-79	- 5.31	c10,000 1200
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	2-02-73 1-25-79	2.66 2.24	570 380
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†, 1972-79	1-25-79	3.30	290
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†, 1972-79	8-19-55 9-26-77 1-25-79	9.5 - 8.65	2200 c1100 1880
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†, 1972-79	9-12-60 1-21-79	6.70 5.45	460 255
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	1965-79	12-21-73 1-25-79	4.52 4.08	600 370
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	1960-79	1-21-79	5.76	517

‡ Operated as a continuous-record gaging station.

† Peak-flow determination.

a Maximum dailies.

c Estimate.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1979--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1979--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							
01193250	Judd Brook near Colchester	Lat 41°35'55", long 72°21'12", New London County, at bridge on Colchester Road, 2 miles north-west of Colchester (discontinued).	3.93	1962-79	1-25-79	4.86	625
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	1960-79	1-25-79	5.29	410
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† 1967-79	1-21-79	8.24	2730
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	1962-79	1-21-79	7.24	1600
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†, 1972-79	8-19-55 1-25-79	13.01 9.16	14,200 2740
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	- 8-10-76 3-06-79	- 2.11 1.93	- 164 80
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†, 1972-79	d10-16-55 1-25-79	14.11 8.30	7890 3800
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, 1977-79	2-02-73 3-06-79	7.91 5.77	630 400
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 1972-79	8-19-55 3-06-79	17.2 8.81	50,300 5130
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	1961-79	9-26-75 3-06-79	7.82 4.82	c1600 680
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†, 1974-79	1-25-79	8.47	2720
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	1962-79	9-26-75 3-06-79	4.61 3.52	c 600 280
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† 1974-79	9-27-75 1-26-78 3-06-79	8.85 6.24 5.33	1820 840 (rev) 580

† Operated as a continuous-record gaging station.

c Estimate.

d Formerly station no. 01201500, 2 miles upstream; drainage area 67.5 mi².

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

317

Annual maximum discharge at crest-stage partial-record stations during water year 1979--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1979--Continued					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis- charge (ft ³ /s)
Housatonic River basin--Continued							
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	1960-79	9-26-75 1-25-79	5.19 4.67	300 240
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	1960-79	1-25-79	6.82	1000
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†, 1967-79	10-16-55 1-25-79	- 5.41	4500 1050
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	1960-79	1-26-78 1-21-79	6.93 6.26	120 103
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†, 1962-79	10-16-55 1-21-79	- 6.12	3250 1100
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†, 1970-79	6-19-72 1-21-79	7.62 6.32	1700 1000

† Peak-flow determination.

‡ Operated as a continuous-record gaging station.

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

Discharge measurements made at miscellaneous sites during water year 1979

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	11-9-78	2.90
					12-5-78	19.4
					1-8-79	206
					2-28-79	13.8
					4-4-79	25.4
					5-22-79	9.51
					7-9-79	.35
					9-7-79	6.82
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)	11-9-78	4.35
					12-5-78	28.7
					1-8-79	388
					2-28-79	24.3
					4-4-79	43.2
					5-22-79	18.5
					7-9-79	.87
					9-7-79	14.3
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	-	11-9-78	4.60
					12-5-78	38.2
					1-9-79	237
					2-28-79	33.3
					4-4-79	55.0
					5-22-79	19.8
					7-9-79	1.57
					9-7-79	17.2
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	-	11-1-78	7.07
					12-5-78	45.0
					1-9-79	-
					3-1-79	40.5
					4-4-79	57.3
					5-22-79	24.3
					7-9-79	2.04
					9-7-79	18.5
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	11-8-78	124
					12-6-78	446
					6-7-79	699
					6-7-79	711
					7-10-79	112
					9-4-79	338
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	10-5-78	1.27
					10-12-78	2.32
					10-12-78	2.22
					11-30-78	8.58
					12-19-78	6.17
					1-8-79	134
					1-25-79	734
					2-26-79	164
					3-20-79	13.6
					4-4-79	10.5
					5-25-79	59.5
					7-12-79	1.34
					8-21-79	2.78
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†	10-5-78	7.03
					11-30-78	19.4
					12-19-78	11.5
					1-8-79	222
					1-25-79	1,070
					2-26-79	156
					3-20-79	34.3
					4-4-79	27.4
					5-25-79	88.6
					7-12-79	6.87
					8-21-79	9.07

† 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

319

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 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SDF- 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- IDY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMUNO, (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
01203520 - NONEWAUG R NR BETHLEHEM CT (LAT 41 35 46 LONG 073 10 17)											
MAY , 1979											
14...	1200	4.4	93	7.2	16.0	15.0	--	1.0	10.2	100	2400 100
01203540 - EAST SPRING BK NR BETHLEHEM CT (LAT 41 36 44 LONG 073 10 35)											
MAY , 1979											
14...	1120	8.0	116	7.1	15.5	14.0	--	1.0	10.4	100	680 110
01203640 - NONEWAUG R AT WOODBURY CT (LAT 41 33 19 LONG 073 12 05)											
JUL , 1979											
31...	1030	--	--	--	--	--	--	--	--	--	--
01203847 - POMPERAUG RIVER AT POMPERAUG, CT. (LAT 41 31 36 LONG 073 12 39)											
NOV , 1978											
06...	1130	19	160	6.3	20.0	10.0	--	1.0	10.0	88	750 90
MAY , 1979											
14...	1420	112	95	7.2	16.0	15.0	--	1.0	11.0	108	1100 120
JUL , 1979											
31...	1145	--	--	--	--	--	--	--	--	--	--
AUG , 1979											
01...	0750	--	142	7.3	--	23.9	6	--	9.0	--	--
01203870 - POMPERAUG RIVER NR SOUTHBRURY, CT. (LAT 41 29 39 LONG 073 13 35)											
JUL , 1979											
31...	1230	--	--	--	--	--	--	--	--	--	--
01204199 - POMPERAUG RIVER AT SOUTH BRITAIN, CT. (LAT 41 27 59 LONG 073 14 55)											
NOV , 1978											
06...	0800	23	222	6.2	9.0	9.0	--	2.0	9.8	84	120 100
MAY , 1979											
14...	1605	143	118	7.5	15.0	15.5	--	1.0	10.8	108	2000 240
AUG , 1979											
01...	1040	--	218	7.4	--	23.6	4	--	8.2	--	--

WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN--Continued

[illegible]

HOUSATONIC RIVER BASIN--Continued

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CADMIUM REC OV. FM ROT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, REC OV. FM ROT- TOM MA- TERIAL (UG/G)	COBALT, REC OV. FM ROT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, REC OV. FM ROT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, REC OV. FM ROT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
01203520 - NONNEWAUG R NR BETHLEHEM CT (LAT 41 36 46 LONG 073 10 17)												
MAY . 1979												
14...	1200	0	1	--	10	--	--	2	--	90	--	2
01203540 - EAST SPRING BK NR BETHLEHEM CT (LAT 41 36 44 LONG 073 10 35)												
MAY . 1979												
14...	1120	0	2	--	10	--	--	2	--	120	--	2
01203540 - NONNEWAUG R AT WOODBURY CT (LAT 41 33 19 LONG 073 12 05)												
JUL . 1979												
31...	1030	--	--	<10	--	10	<10	--	<10	--	8600	--
01203647 - POMPEAUG RIVER AT POMPEAUG, CT. (LAT 41 31 36 LONG 073 12 39)												
NOV . 1978												
06...	1130	0	2	--	0	--	--	1	--	--	--	--
MAY . 1979												
14...	1420	0	1	--	10	--	--	3	--	90	--	2
JUL												
31...	1145	--	--	<10	--	<10	<10	--	<10	--	3600	--
AUG												
01...	0750	--	--	--	--	--	--	--	--	80	--	--
01203870 - POMPEAUG RIVER NR SOUTHBRURY, CT. (LAT 41 29 39 LONG 073 13 35)												
JUL . 1979												
31...	1230	--	--	<10	--	<10	10	--	<10	--	3700	--
01204199 - POMPEAUG RIVER AT SOUTH BRITAIN, CT. (LAT 41 27 59 LONG 073 14 55)												
NOV . 1978												
06...	0800	0	2	--	0	--	--	1	--	--	--	--
MAY . 1979												
14...	1605	0	1	--	10	--	--	2	--	100	--	2
AUG												
01...	1040	--	--	--	--	--	--	--	--	100	--	--

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

323

WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN--Continued

DATE	TIME	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PH)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELF- NIUM, DIS- SOLVED (UG/L AS SF)	SFL- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
01203520 - NONNEWAUG R NR BETHLEHEM CT (LAT 41 36 46 LONG 073 10 17)											
MAY . 1979											
14...	1200	--	6	--	.5	--	0	--	0	0	-- 5.5
01203540 - EAST SPRING BK NR BETHLEHEM CT (LAT 41 36 44 LONG 073 10 35)											
MAY . 1979											
14...	1120	--	20	--	.5	--	0	--	0	10	-- 6.8
01203640 - NONNEWAUG R AT WOODBURY CT (LAT 41 33 14 LONG 073 12 05)											
JUL . 1979											
31...	1030	50	--	170	--	.00	--	0	--	--	40 --
01203847 - POMPEPAUG RIVER AT POMPEPAUG, CT. (LAT 41 31 36 LONG 073 12 39)											
NOV . 1978											
06...	1130	--	--	--	<.5	--	0	--	0	10	-- 32
MAY . 1979											
14...	1420	--	7	--	.5	--	0	--	0	10	-- 3.1
JUL . 1979											
31...	1145	10	--	70	--	.09	--	0	--	--	30 --
AUG . 1979											
01...	0750	--	20	--	--	--	--	--	--	--	--
01203870 - POMPEPAUG RIVER NR SOUTHURY, CT. (LAT 41 29 34 LONG 073 13 35)											
JUL . 1979											
31...	1230	<10	--	140	--	.00	--	0	--	--	20 --
01204199 - POMPEPAUG RIVER AT SOUTH BRITAIN, CT. (LAT 41 27 59 LONG 073 14 55)											
NOV . 1978											
06...	0900	--	--	--	<.5	--	0	--	0	0	-- 45
MAY . 1979											
14...	1605	--	20	--	.5	--	0	--	0	0	-- 5.4
AUG . 1979											
01...	1040	--	60	--	--	--	--	--	--	--	--

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN--Continued

[illegible]

HOUSATONIC RIVER BASIN--Continued

[illegible]

WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979

HOUSATONIC RIVER BASIN--Continued

[illegible]

HOUSATONIC RIVER BASIN--Continued

[illegible]

FAIRFIELD COUNTY

413007073250501. Local number, BD 8.

LOCATION.--Lat 41°30'07", long 73°25'05", Hydrologic Unit 01100005, 50 ft (15 m) south and 10 ft (3 m) 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 1/4 in (0.03 m), depth 53 ft (16.2 m), plastic casing to 50 ft (15.2 m), well point 50 to 53 ft (15.2 to 16.2 m).

DATUM.--Altitude of land-surface datum is 255 ft (78 m) (from topographic map). Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.

PERIOD OF RECORD.--January 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.89 ft (8.20 m) below land-surface datum, June 26, 1972; lowest, 33.05 ft (10.07 m) below land-surface datum, Jan. 4, 1967.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	32.35	DEC 26	32.60	FEB 28	29.38	APR 26	28.58	JUN 27	29.15	AUG 27	31.54
NOV 29	32.88	JAN 30	28.79	MAR 28	28.46	MAY 31	27.95	JUL 26	30.75	SEP 26	31.63

411256073153101. Local number, FF 23.

LOCATION.--Lat 41°12'56", long 73°15'31", Hydrologic Unit 01100006, about 100 ft (30 m) south of Merritt Parkway and about 2000 ft (610 m) 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 1/4 in (0.03 m), depth 42 ft (13 m), steel casing to 39 ft (12 m), screened 39 to 42 ft (12 to 13 m).

DATUM.--Altitude of land-surface datum is 130 ft (40 m) (from topographic map). Measuring point: Top of casing, 2.40 ft (0.73 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.78 ft (1.46 m) below land-surface datum, June 23, 1972; lowest, 8.79 ft (2.68 m) below land-surface datum, Sept. 25, 1967.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.43	DEC 26	7.66	FEB 27	6.80	APR 25	7.89	JUN 27	8.22	AUG 25	8.31
NOV 29	8.34	JAN 29	6.45	MAR 27	7.74	MAY 30	6.95	JUL 25	8.54	SEP 26	8.07

412429073165101. Local number, NT 15.

LOCATION.--Lat 41°24'29", long 73°16'51", Hydrologic Unit 01100005, 0.65 mi (1.05 km) southwest of State Route 34 on Mile Hill Road and 0.25 mi (0.40 km) 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 1/4 in (0.03 m), depth 33 ft (10 m), plastic casing to 31 ft (9 m), well point 31 to 33 ft (9 to 10 m).

DATUM.--Altitude of land-surface datum is 265 ft (81 m) (from topographic map). Measuring point: Top of casing 2.40 ft (0.73 m) above land-surface datum.

PERIOD OF RECORD.--January 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 0.61 ft (0.19 m) below land-surface datum, June 26, 1972; lowest, 10.50 ft (3.20 m) below land-surface datum, Oct. 23, 1971.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	7.48	DEC 26	5.46	FEB 28	4.22	APR 26	3.38	JUN 27	4.82	AUG 27	8.66
NOV 29	8.00	JAN 30	2.87	MAR 28	2.94	MAY 31	2.32	JUL 26	7.52	SEP 26	8.60

GROUND-WATER LEVELS

329

FAIRFIELD COUNTY--Continued

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 (0.05 m), depth 98 ft (29.9 m), steel casing to 57 ft (17.4 m), screened 57 to 62 ft (17.4 to 18.9 m).

DATUM.--Altitude of land-surface datum is 320 ft (97.54 m) (from topographic map). Measuring point: Top of steel casing, 3.0 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--August 1976 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.67 ft (7.82 m) below land-surface datum, May 31, 1979; lowest, 31.64 ft (9.64 m) below land-surface datum Dec. 2, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB	-	APR	-	JUN	-	AUG 30	27.50
NOV	-	JAN	-	MAR	-	MAY	-	JUL	-	SEP 2	27.70
										29	27.87

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	26.00	DEC 2	31.64	FEB 25	28.85	APR 26	27.95	JUN 21	27.32	AUG 25	28.35
29	27.47	20	27.81	MAR 30	28.66	MAY 26	27.22	JUL 28	27.71	SEP 30	28.93
		JAN 28	28.39								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC 1	28.10	FEB 24	26.77	APR 27	26.49	JUN 27	26.17	AUG 29	27.08
NOV	-	19	27.69	MAR 30	26.82	MAY 30	26.46	JUL 26	26.58	SEP 28	27.50
		JAN 31	26.78								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	27.87	DEC 26	28.57	FEB 28	27.11	APR 26	26.25	JUN 27	25.73	AUG 27	27.06
NOV 29	27.88	JAN 30	28.04	MAR 28	26.32	MAY 31	25.67	JUL 26	26.32	SEP 26	27.73

412322073160301. Local number NT 57.

LOCATION.--Lat 41°23'22", long 73°16'03", Hydrologic Unit 01100005, south east of Turkey Hill Road, north of dirt road, 50 ft (15 m) southeast of power lines, Newtown; Newtown Quadrangle.

Owner: Pootatuck Club.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 15 ft (4.57 m), plastic casing to 10 ft (3.05 m), screened 10 to 15 ft (3.05 to 4.57 m).

DATUM.--Altitude of land-surface datum is 304 ft (92.66 m) (from topographic map). Measuring point: Top of plastic casing, 1.35 ft (0.41 m) above land-surface datum.

REMARKS.--NT 69 test hole at this site.

PERIOD OF RECORD.--August 1976 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.01 ft (0.30 m) below land-surface datum, Jan. 3, 1979; lowest, 8.94 ft (2.73 m) below land-surface datum, Aug. 29, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB	-	APR	-	JUN	-	AUG 25	6.60
NOV	-	JAN	-	MAR	-	MAY	-	JUL	-	SEP 1	5.53
										29	6.68

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	5.06	DEC 2	5.57	FEB 25	5.29	APR 26	3.49	JUN 21	6.10	AUG 25	8.94
NOV	-	20	5.56	MAR 30	1.95	MAY 26	5.25	JUL 28	7.40	SEP 30	7.05
		JAN 31	6.50								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC 1	4.23	FEB 24	4.20	APR 27	3.55	JUN 27	5.12	AUG 29	6.82
NOV	-	19	3.96	MAR 30	1.90	MAY 30	3.47	JUL 26	5.47	SEP 28	6.79
		JAN 31	2.50								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	7.09	DEC 26	5.82	FEB 28	2.81	APR 26	4.31	JUN 27	5.36	AUG 27	7.41
NOV 29	6.95	JAN 30	1.01	MAR 28	2.97	MAY 31	3.42	JUL 26	6.78	SEP 26	7.14

GROUND-WATER LEVELS

HARTFORD COUNTY

414615072581601. Local number, BU 2.

LOCATION.--Lat 41°46'15", long 72°58'16", Hydrologic Unit 01080207, 95 ft (31 m) 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 (0.91 m), depth 37 ft (11.3 m), stone-lined.

DATUM.--Altitude of land-surface datum is 880 ft (268 m) (from topographic map). Measuring point: Top of curb, 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.70 ft (3.87 m) below land-surface datum, Aug. 19, 1955; lowest 37.41 ft (11.40 m) below land-surface datum, Dec. 22, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	33.88	DEC 27	35.92	FEB 28	25.55	APR 26	17.59	JUN 27	17.55	AUG 27	23.88
NOV 29	35.53	JAN 29	35.88	MAR 27	20.35	MAY 31	16.56	JUL 26	20.07	SEP 26	26.49

414315072511401. Local number F 283.

LOCATION.--Lat 41°43'15", long 72°51'14", Hydrologic Unit 01080207, 4,000 ft (1,200 m) west of Farmington River, 500 ft (150 m) 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 (0.05 m), depth 23 ft (7.01 m), plastic casing to 18 ft (5.49 m), screened 18 to 23 ft (5.49 to 7.01 m).

DATUM.--Altitude of land-surface datum is 164.03 ft (49.99 m) (from level traverse). Measuring point: Top of plastic casing, 1.72 ft (0.52 m) 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, 24.3 ft (0.71 m) below land-surface datum, Mar. 31, 1977; lowest, 5.80 ft (1.77 m) below land-surface datum, July 26, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	4.17	DEC 01	2.86	FEB 28	3.98	APR 27	2.85	JUN 22	4.79	AUG 25	5.14
NOV	-	30	5.06	MAR 31	2.34	MAY 24	4.23	JUL 29	5.52	SEP 29	3.17
		JAN 24	5.45								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	3.75	DEC	-	FEB	-	APR	-	JUN	-	AUG	-
NOV 29	3.68	JAN	-	MAR	-	MAY	-	JUL	-	SEP	-

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC 26	4.55	FEB 28	3.95	APR 26	4.19	JUN 27	5.36	AUG 27	4.42
NOV 30	4.88	JAN 29	2.73	MAR 27	3.23	MAY 31	3.32	JUL 26	5.80	SEP 25	3.95

GROUND-WATER LEVELS

331

HARTFORD COUNTY--Continued

414517072503301. Local number F 294.

LOCATION.--Lat 41°45'17", long 72°50'33", Hydrologic Unit 01080207, 0.5 mi (800 m) west of Tilliston Road, 90 ft (27 m) 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 (0.05 m), depth 28.4 ft (8.66 m), plastic casing to 23.4 ft (7.13 m), screened 23.4 to 28.4 ft (7.13 to 8.66 m).

DATUM.--Altitude of land-surface datum is 231.96 ft (70.70 m) (from level traverse). Measuring point: Top of steel outer casing, 1.03 ft (0.31 m) above land-surface datum.

PERIOD OF RECORD.--September 1976 to November 1977. November 1978 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.15 ft (4.31 m) below land-surface datum, May 31, 1979; lowest, 22.29 ft (6.79 m) below land-surface datum, Dec. 26, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	20.42	DEC 29	21.45	FEB 28	21.43	APR 27	14.71	JUN 22	15.39	AUG 25	18.47
NOV 30	21.23	JAN 24	21.51	MAR 30	17.19	MAY	-	JUL 29	17.09	SEP 29	20.00

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	20.25	DEC	-	FEB	-	APR	-	JUN	-	AUG	-
NOV 29	18.85	JAN	-	MAR	-	MAY	-	JUL	-	SEP	-

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC 26	22.29	FEB 28	16.50	APR 26	14.77	JUN 27	15.23	AUG 27	18.16
NOV 30	21.52	JAN 29	18.92	MAR 27	14.45	MAY 31	14.15	JUL 26	16.66	SEP 25	20.88

413724072551101. Local number S 375.

LOCATION.--Lat 41°37'24", long 72°55'11", Hydrologic Unit 01100004, 18 ft (5.5 m) east of fork in dirt road on east side of Mt. Vernon Rd, Southington; Southington Quadrangle.

Owner: Forestville Fish and Game Club.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in, (0.05 m), depth 28 ft (8.53 m), steel casing to 23 ft (7 m), screened 23 ft to 28 ft (7 m to 8.5 m).

DATUM.--Altitude of land-surface datum is 200 ft (67 m) (from topographic map). Measuring point: Top of pipe coupling at land-surface datum.

PERIOD OF RECORD.--October 1975 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.96 ft (2.12 m) below land-surface datum, Apr. 24, 1978; lowest, 13.06 ft (3.98 m) below land-surface datum, Sept. 27, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	9.97	DEC 29	9.84	FEB 26	8.69	APR 27	10.03	JUN 23	11.16	AUG 23	12.46
NOV 24	9.37	JAN	-	MAR 22	9.42	MAR 26	10.47	JUL 27	12.02	SEP 27	13.06

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	12.79	DEC 22	9.42	FEB 23	-	APR 25	8.40	JUN 22	9.42	AUG 24	12.00
NOV 22	12.57	JAN 27	-	MAR 25	10.39	MAY 24	8.78	JUL 25	10.32	SEP 26	12.83

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	12.15	DEC 20	8.82	FEB 21	-	APR 24	6.96	JUN 22	8.20	AUG 24	10.18
NOV 21	11.43	JAN 30	-	MAR 24	8.06	MAY 23	7.65	JUL 21	9.22	SEP 25	10.58

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.98	DEC 26	-	FEB 28	8.49	APR 26	8.23	JUN 27	8.82	AUG 24	10.07
NOV 30	11.31	JAN 29	8.40	MAR 27	7.66	MAY 30	7.75	JUL 26	9.73	SEP 25	10.26

GROUND-WATER LEVELS

HARTFORD COUNTY--Continued

413724072551101. Local number S 376.

LOCATION.--Lat 41°37'24", long 72°55'11", Hydrologic Unit 01100004, 75 ft (23 m) north of power line, 500 ft (150 m) west of State Route 10, 300 ft (91 m) south of intersection with Flanders Road, Southington;

Southington Quadrangle.

Owner: Town of Southington.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22 ft (6.71 m), steel casing to 17 ft, screened 17 to 22 ft (5.18 to 6.71 m).

DATUM.--Altitude of land-surface datum is 150 ft (45.7 m) (from topographic map). Measuring point: Top of steel casing, 1.25 ft (0.38 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.63 ft (0.49 m) below land-surface datum, Jan. 29, 1979; lowest, 6.13 ft (1.87 m) below land-surface datum, Jan. 25, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	3.45	DEC 5	3.20	FEB 26	2.88	APR 28	3.56	JUN 23	4.44	AUG 23	4.76
24	2.36	29	3.27	MAR 22	3.27	MAY 24	3.63	JUL 27	5.39	SEP 27	5.59
NOV 24	3.07	JAN	-								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 22	3.97	DEC 22	4.39	FEB 23	-	APR 25	2.88	JUN 22	2.75	AUG 24	5.83
NOV 22	4.46	JAN 27	-	MAR 25	2.52	MAY 24	3.70	JUL 25	5.79	SEP 26	4.62

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 25	3.46	DEC 20	3.27	FEB 21	-	APR 24	2.93	JUN 22	-	AUG 24	5.66
NOV 21	3.40	JAN 30	-	MAR 24	-	MAY 23	-	JUL 21	4.80	SEP 25	5.43

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 25	6.13	DEC 26	4.10	FEB 28	2.90	APR 25	3.31	JUN 26	4.54	AUG 24	4.46
NOV 30	5.45	JAN 29	1.63	MAR 27	2.82	MAY 31	3.09	JUL 26	6.02	SEP 25	4.35

413608072523801. Local number S 377.

LOCATION.--Lat 41°36'08", long 72°52'38", Hydrologic Unit 01100004, 3 ft (0.9 m) east of curve in driveway to town parking lot, corner of Academy St. and Route 10, Southington; Southington Quadrangle.

Owner: Town of Southington.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 32 ft (9.75 m), steel casing to 27 ft (8.2 m), screened 27 ft to 32 ft (8.2 m to 9.8 m).

DATUM.--Altitude of land-surface datum is 150 ft (45.72 m) (from topographic map). Measuring point: Top of steel casing 0.8 ft (0.24 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.77 ft (5.72 m) above land-surface datum, April 24, 1978, lowest, 22.66 ft (6.91 m) above land-surface datum, Sept. 26, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	20.84	DEC 29	19.80	FEB 26	18.79	APR 27	19.21	JUN 23	20.14	AUG 23	21.14
NOV 24	19.84		-	MAR 22	18.94	MAY 26	19.47	JUL 27	20.90	SEP 27	21.65

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 22	21.69	DEC 22	21.96	FEB 23		APR 25	20.43	JUN 22	20.68	AUG 24	22.06
NOV 22	21.76	JAN 27	-	MAR 25	21.43	MAY 24	20.18	JUL 25	21.33	SEP 26	22.66

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 25	21.81	DEC 20	20.76	FEB 21	-	APR 24	18.77	JUN 22	19.30	AUG 24	20.63
NOV 21	21.36	JAN 30	-	MAR 24	-	MAY 23	19.10	JUL 21	20.02	SEP 25	21.00

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 25	21.44	DEC 29	22.04	FEB 28	20.02	APR 25	19.42	JUN 26	19.65	AUG 24	21.11
NOV 30	21.96	JAN 29	20.22	MAR 27	19.15	MAY 31	19.20	JUL 26	20.62	SEP 25	21.40

GROUND-WATER LEVELS

333

HARTFORD COUNTY--Continued

413510072513601. Local number S 378.

LOCATION.--Lat 41°35'10", long 72°51'36". Hydrologic Unit 01100004, 6 ft (1.8 m) west of dirt road east of East Street, Southington; Meriden Quadrangle.

Owner: Lewis Farms

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 32 ft (9.8 m), screened 27 ft to 32 ft (8.2 m to 9.8 m).

DATUM.--Altitude of land-surface datum is 190 ft (57.9 m) (from topographic map). Measuring point: 0.15 ft (0.045 m) below land-surface datum.

REMARKS.--Destroyed April 1976.

PERIOD OF RECORD.--October 1975 to March 1976.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.93 ft (3.94 m) below land-surface datum, Feb. 26, 1976; lowest 13.22 ft (4.0 m) below land-surface datum, March 22, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	13.22	DEC 29	13.04	FEB 26	12.93	APR -	-	JUN -	-	AUG -	-
NOV 25	13.08	JAN -	-	MAR 22	13.21	MAY -	-	JUL -	-	SEP -	-

413531072525301. Local number S 379.

LOCATION.--Lat 41°35'31", long 72°52'53", Hydrologic Unit 01100004, south side of dirt road west of Old Turnpike Road, 1,000 ft (304.8 m) south of junction with State Route 10, Southington; Southington Quadrangle.

Owner: A. Sachek.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.051 m), depth 47 ft (14.33 m), screened 42 to 47 ft (12.8 to 14.33 m).

DATUM.--Altitude of land-surface datum is 148 ft (45.1 m) (from topographic map). Measuring point: Top of plastic casing, 0.21 ft (0.064 m) above land-surface datum.

REMARKS.--Sand, generally very fine to medium grained.

PERIOD OF RECORD.--September 1975 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.93 ft (0.9 m) below land-surface datum, Apr. 24, 1978; lowest, 6.63 ft (2.0 m) below land-surface datum, Feb. 23, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	4.65	DEC 29	3.77	FEB 26	3.60	APR 27	3.15	JUN 23	4.13	AUG 23	5.17
NOV 24	4.04	JAN -	-	MAR 26	3.76	MAY 26	3.49	JUL 27	4.95	SEP 27	5.67

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	5.62	DEC 22	5.92	FEB 23	6.63	APR 25	4.24	JUN 22	4.90	AUG 24	6.03
NOV 22	5.91	JAN 27	6.47	MAR 25	4.87	MAY 24	4.35	JUL 25	5.68	SEP 26	6.17

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.06	DEC 20	4.37	FEB 21	3.98	APR 24	2.93	JUN 22	3.69	AUG 24	4.18
NOV 21	4.69	JAN 30	3.61	MAR 24	3.78	MAY 23	3.28	JUL 21	4.15	SEP 25	4.62

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.36	DEC 26	5.29	FEB 28	4.18	APR 25	3.58	JUN 26	4.00	AUG 24	3.49
NOV 30	4.68	JAN 29	3.99	MAR 27	3.42	MAY 31	3.22	JUL 26	4.02	SEP 25	3.42

GROUND-WATER LEVELS

HARTFORD COUNTY--Continued

414910072372101. Local number, SW 64.

LOCATION.--Lat 41°49'10", long 72°37'21", Hydrologic Unit 01080205, 15 ft (5 m) 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 (0.61 m), depth 18 ft (5.5 m), brick-lined.

DATUM.--Altitude of land-surface datum is 40 ft (12 m) (from topographic map). Measuring point: Top edge of hole in flagstone cover, 0.50 ft (0.15 m) 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 (2.18 m) below land-surface datum, Mar. 30, 1936; lowest, 15.22 ft (4.64 m) below land-surface datum, Jan. 26, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	12.97	DEC 21	13.09	FEB 23	11.51	APR 24	10.04	JUN 25	11.16	AUG 24	11.51
NOV 28	12.60	JAN 24	11.55	MAR 26	9.81	MAY 29	10.23	JUL 24	11.93	SEP 24	11.83

LITCHFIELD COUNTY

420125073193001. Local number, NOC 7.

LOCATION.--Lat 42°01'25", long 73°19'30", Hydrologic Unit 01100005, 300 ft (91 m) south and 75 ft (23 m) 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 (0.61 m), depth 12 ft (4 m), stone-lined.

DATUM.--Altitude of land-surface datum is 675 ft (206 m) (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 (2.32 m) below land-surface datum, Mar. 26, 1963; lowest, 11.12 ft (3.39 m) below land-surface datum, Sept. 5, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	9.77	DEC 26	9.60	FEB 28	9.37	APR 26	9.24	JUN 27	9.66	AUG 27	9.66
NOV 29	9.71	JAN 30	9.09	MAR 28	9.05	MAY 31	9.13	JUL 26	9.80	SEP 26	9.42

414910073072301. Local number, T 2.

LOCATION.--Lat 41°49'10", long 73°07'23", Hydrologic Unit 01100005, in storeroom of machine shop, Warrenton Wollen Co., Torrington; Torrington Quadrangle.

Owner: Warrenton Woolen Co.

AQUIFER.--Crystalline bedrock.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (0.20 m), depth 381 ft (116 m), cased to 34 ft (10 m).

DATUM.--Altitude of land-surface datum is 650 ft (198 m) (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 (1.53 m) below land-surface datum, May 8, 1972; lowest, 8.60 ft (2.62 m) below land-surface datum, Sept. 28, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 2	7.35	DEC 4	7.02	FEB 5	6.28	APR 9	6.10	JUN 4	6.22	AUG 6	7.50
9	7.10	11	6.27	12	6.62	16	5.80	11	6.53	13	6.12
16	7.33	18	6.56	19	6.88	23	6.14	18	6.78	20	6.42
23	7.52	26	6.68	26	5.90	30	5.52	25	7.00	27	6.72
31	7.50	JAN 1	6.55	MAR 5	6.05	MAY 7	6.10	JUL 11	7.25	SEP 4	7.00
NOV 6	7.68	8	4.98	12	5.50	14	6.36	16	7.40	10	6.48
13	7.78	15	5.04	19	6.02	21	6.60	23	7.36	17	6.79
20	7.62	22	5.50	26	5.87	29	5.72	30	7.27	24	6.44
27	7.57	29	5.72	APR 2	6.10						

GROUND-WATER LEVELS

335

LITCHFIELD COUNTY--Continued

413202073122401. Local number, WY 1.

LOCATION.--Lat 41°32'02", long 73°12'24", Hydrologic Unit 01100005, about 75 ft (23 m) east of Main Street and 21 ft (6 m) north of Irene Thulin House and about 500 ft (152 m) south of Orenaug Road, Woodbury; Woodbury Quadrangle.

Owner: Irene Boulbee.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Dug, unused, water-table well, diameter 30 in (0.76 m), depth 31 ft (9 m), stone-lined.

DATUM.--Altitude of land-surface datum is 270 ft (82 m) (from topographic map). Measuring point: Top of angle iron on cover, 2.62 ft (0.80 m) above land-surface datum.

REMARKS.--Recording gage installed Oct. 5, 1965; removed May 18, 1970. Fluctuation affected by pumping. Depth formerly 34.2 ft (10.4 m).

PERIOD OF RECORD.--October 1913 to December 1916, April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.44 ft (5.93 m) below land-surface datum, Apr. 1, 1953; lowest, 33.5 ft (10.2 m) below land-surface datum, Oct. 10, 1914.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	29.63	DEC 26	29.03	FEB 23	21.06	APR 26	21.20	JUN 29	21.94	AUG 28	27.03
NOV 29	29.41	JAN 30	20.28	MAR 28	20.68	MAY 31	20.96	JUL 26	23.55	SEP 28	28.92

413339073114301. Local number WY 25.

LOCATION.--Lat 41°33'39", long 73°11'43", Hydrologic Unit 01100005, in cornfield, 10 ft (3.1 m) southeast of Route 6, 80 ft (24.2 m) east of CL&P pole no. 18298, Woodbury; Woodbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.4 ft (6.8 m), steel casing to 17.4 ft (5.3 m), screened 17.4 to 22.4 ft (5.3 to 6.8 m).

DATUM.--Altitude of land-surface datum is 285 ft (86.9 m) (from topographic map). Measuring point: Top of steel casing, 0.6 ft (0.18 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.33 ft (0.71 m) below land-surface datum, April 30, 1979; lowest, 5.55 ft (1.7 m) below land-surface datum, Aug. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	3.96	APR 30	2.33	JUN 4	3.29	AUG 27	5.55
NOV	-	JAN 2	3.13	MAR 30	3.16	MAY	-	29	4.13	SEP 28	4.20
		30	2.62					JUL 27	4.67		

413300073121901. Local number WY 26.

LOCATION.--Lat 41°33'00", long 73°12'19", Hydrologic Unit 01100005, northeast corner of land between Pleasant Street, Main Street, and Green Circle, Woodbury; Woodbury Quadrangle.

Owner: Town of Woodbury.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 34 ft (10.4 m), plastic casing to 31 ft (9.5 m), screened 31 to 34 ft (9.5 to 10.4 m).

DATUM.--Altitude of land-surface datum is 280 ft (85.3 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.3 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.62 ft (1.4 m) below land-surface datum, Apr. 30, 1979; lowest, 11.12 ft (3.4 m) below land-surface datum, Jan. 2, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	7.99	APR 30	4.62	JUN 4	6.50	AUG 27	10.77
NOV	-	JAN 2	11.12	MAR 30	6.19	MAY	-	29	8.25	SEP 28	10.93
		30	7.17					JUL 27	9.80		

LITCHFIELD COUNTY--Continued

413331073122701. Local number WY 27.

LOCATION.--Lat 41°33'31", long 73°12'27", Hydrologic Unit 01100005, in cornfield north of the Nonewaug River, east of small pond, Woodbury; Woodbury Quadrangle.

Owner: Frank Shepard.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 23 ft (7.0 m), plastic casing to 18 ft (5.5 m), screened 18 to 23 ft (5.5 to 7.0 m).

DATUM.--Altitude of land-surface datum is 267 ft (81.4 m) (from topographic map). Measuring point: Top of plastic casing, 2.3 ft (0.70 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.83 ft (0.56 m) below land-surface datum, Sept. 28, 1979; lowest, 3.82 ft (1.16 m) below land-surface datum, Aug. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	3.74	APR 30	2.28	JUN 4	3.02	AUG 27	3.82
NOV	-	JAN 3	2.17	MAR 30	3.33	MAY	-	JUN 29	3.49	SEP 28	1.83
		30	2.81					JUL 27	3.64		

413330073125401. Local number WY 28.

LOCATION.--Lat 41°33'30", long 73°12'54", Hydrologic Unit 01100005, west end of cornfield bounded by Route 47, Jacks Bridge Road, the Nonewaug River, and the Weekeepemee River, Woodbury; Woodbury Quadrangle.

Owner: David Shepard.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.7 ft (6.9 m), plastic casing to 17.7 ft (5.4 m), screened 17.7 to 22.7 ft (5.4 to 6.9 m).

DATUM.--Altitude of land-surface datum is 258 ft (78.6 m) (from topographic map). Measuring point: Top of plastic casing, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.42 ft (1.65 m) below land-surface datum, Apr. 30, 1979; lowest, 8.44 ft (2.57 m) below land-surface datum, Jul. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	7.37	APR 30	5.42	JUN 4	6.67	AUG 27	8.36
NOV	-	JAN 2	7.25	MAR 30	6.29	MAY	-	JUN 29	8.04	SEP 28	8.02
		30	5.34					JUL 27	8.44		

413258073123601. Local number WY 29.

LOCATION.--Lat 41°32'58", long 73°12'36", Hydrologic Unit 01100005, in cemetery on west side of Washington Ave., 70 ft (21.3 m) east of paved area, Woodbury; Woodbury Quadrangle.

Owner: Town of Woodbury.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 44.8 ft (13.6 m), plastic casing to 41.8 ft (12.7 m), screened 41.8 to 44.8 ft (12.7 to 13.6 m).

DATUM.--Altitude of land-surface datum is 292 ft (89.0 m) (from topographic map). Measuring point: Top of plastic casing, 1.1 ft (0.33 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.92 ft (7.90 m) below land-surface datum, June 29, 1979; lowest, 29.05 ft (8.90 m) below land-surface datum, Jan. 3, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	27.99	APR 30	26.96	JUN 4	26.12	AUG 27	26.83
NOV	-	JAN 3	29.05	MAR 30	27.48	MAY	-	JUN 29	25.92	SEP 28	27.41
		30	28.41					JUL 27	26.35		

GROUND-WATER LEVELS

337

LITCHFIELD COUNTY--Continued

413307073125001. Local number WY 30.

LOCATION.--Lat 41°33'07", long 73°12'50", Hydrologic Unit 01100005, southwest end of North Cemetery, Woodbury; Woodbury Quadrangle.

Owner: Woodbury Cemetery Association.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 49.1 ft (14.9 m), plastic casing to 44.1 ft (13.4 m), screened 44.1 to 49.1 ft (13.4 to 14.9 m).

DATUM.--Altitude of land-surface datum is 275 ft (83.8 m) (from topographic map). Measuring point: Top of plastic casing, 1.8 ft (0.55 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.50 ft (10.8 m) below land surface datum, Apr. 30, 1979; lowest, 37.93 ft (11.6 m) below land surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	37.43	APR 30	35.50	JUN 4	36.95	AUG 27	37.89
NOV	-	JAN 2	36.22	MAR 30	36.81	MAY		29	37.72	SEP 28	37.69
		30	36.06					JUL 27	37.93		

413247073125901. Local number WY 31.

LOCATION.--Lat 41°32'47", long 73°12'59", Hydrologic Unit 01100005, south of Judson Ave., east of the Pomperaug River, 80 ft (24.4 m) east of Gravel Road, Woodbury; Woodbury Quadrangle.

Owner: James Ravenscroft.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 59.9 ft (18.3 m), plastic casing to 56.9 ft (17.3 m), screened 56.9 to 59.9 ft (17.3 to 18.3 m).

DATUM.--Altitude of land-surface datum is 270 ft (82.3 m) (from topographic map). Measuring point: Top of plastic casing, 1.5 ft (0.46 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.05 ft (5.8 m) below land-surface datum, Apr. 30, 1979; lowest, 21.22 ft (6.5 m) below land-surface datum, Feb. 22, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	21.22	APR 30	19.05	JUN 4	19.79	AUG 28	21.00
NOV	-	JAN 3	19.64	MAR 30	19.74	MAY		29	20.50	SEP 28	20.94
		30	19.65					JUL 27	20.89		

413238073132601. Local number WY 32.

LOCATION.--Lat 41°32'38", long 73°13'26", Hydrologic Unit 01100005, east of West Side Road, north of Route 317, near stand of apple trees, Woodbury; Woodbury Quadrangle.

Owner: William Moody.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 45.9 ft (14.0 m), plastic casing to 41.9 ft (12.8 m), screened 41.9 to 45.9 ft (12.8 to 14.0 m).

DATUM.--Altitude of land-surface datum is 282 ft (85.9 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 20.39 ft (6.2 m) below land-surface datum, Apr. 30, 1979; lowest, 25.12 ft (7.7 m) below land-surface datum, Jan. 3, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	21.72	APR 30	20.39	JUN 4	20.91	AUG 28	23.47
NOV	-	JAN 3	25.12	MAR 30	20.77	MAY		29	21.95	SEP 28	23.44
		30	20.59					JUL 27	22.88		

LITCHFIELD COUNTY--Continued

413141073115701. Local WY 33.

LOCATION.--Lat 41°31'41", long 73°11'57", Hydrologic Unit 01100005, south of intersection of Route 64 and Middle Quarter Road, in back of barn, Woodbury; Woodbury Quadrangle.

Owner: Charles Nininger.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.4 ft (6.8 m), plastic casing to 17.4 ft (5.3 m), screened 17.4 to 22.4 ft (5.3 to 6.8 m).

DATUM.--Altitude of land-surface datum is 268 ft (81.7 m) (from topographic map). Measuring point: Top of plastic casing, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.69 ft (1.1 m) below land-surface datum, Jan. 30, 1979; lowest, 9.29 ft (2.8 m) below land-surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	6.26	APR 30	4.19	JUN 4	5.20	AUG 28	8.33
NOV	-	JAN 3	5.84	MAR 30	5.15	MAY	-	JUN 29	8.05	SEP 28	8.48
		30	3.69					JUL 27	9.29		

413117073120901. Local number WY 34.

LOCATION.--Lat 41°31'17", long 73°12'09", 70 ft (21.3 m) south of Dint Drive, West of Main Street, Woodbury; Woodbury Quadrangle.

Owner: Steadman.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 31.8 ft (9.7 m), plastic casing to 28.8 ft (8.8 m), screened 28.8 to 31.8 ft (8.8 to 9.7 m).

DATUM.--Altitude of land-surface datum is 282 ft (85.9 m) (from topographic map). Measuring point: Top of plastic casing, 1.9 ft (0.58 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.36 ft (3.46 m) below land-surface datum, Jan. 30, 1979; lowest, 22.66 ft (6.9 m) below land-surface datum, Jan. 3, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	15.54	APR 30	11.38	JUN 4	14.34	AUG 28	21.18
NOV	-	JAN 3	22.66	MAR 30	12.99	MAY	-	JUN 29	17.37	SEP 28	21.23
		30	11.36					JUL 27	19.52		

413119073123501. Local number WY 35.

LOCATION.--Lat 41°31'19", long 73°12'35", Hydrologic Unit 01100005, 250 ft (76.2 m) west of Pomperaug River, north of New Pond, 25 ft (7.6 m) north of dirt road, Woodbury; Woodbury Quadrangle.

Owner: Silliman Sand and Gravel Co.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.7 ft (6.9 m), plastic casing to 17.7 ft (5.4 m), screened 17.7 to 22.7 ft (5.4 to 6.9 m).

DATUM.--Altitude of land-surface datum is 223 ft (67.9 m) (from topographic map). Measuring point: Top of plastic casing, 2.6 ft (0.79 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.52 ft (1.1 m) below land-surface datum, Jan. 30, 1979; lowest, 6.29 ft (1.9 m) below land-surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	5.52	APR 30	3.83	JUN 4	5.13	AUG 28	6.25
NOV	-	JAN 3	4.70	MAR 28	5.02	MAY	-	JUN 29	6.08	SEP 28	5.89
		30	3.52					JUL 22	6.29		

GROUND-WATER LEVELS

339

LITCHFIELD COUNTY--Continued

413104073123501. Local number WY 36.

LOCATION.--Lat 41°51'04", long 73°12'35", Hydrologic Unit 01100005, between the Pomperaug River and the pond mentioned in the WY 35 description, Woodbury; Woodbury Quadrangle.

Owner: Silliman Sand and Gravel Co.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 21.9 ft (6.7 m), plastic casing to 16.9 ft (5.2 m), screened 16.9 to 21.9 ft (5.2 to 6.7 m).

DATUM.--Altitude of land-surface datum is 212 ft (64.6 m) (from topographic map). Measuring point: Top of plastic casing, 3.2 ft (0.98 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.34 ft (2.24 m) below land-surface datum, Jan. 3, 1979; lowest, 10.00 ft (3.04 m) below land-surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	9.54	APR 30	8.12	JUN 4	9.14	AUG 28	9.86
NOV	-	JAN 3	7.34	MAR 28	8.97	MAY	-	JUN 29	9.51	SEP 28	9.67
		30	8.39					JUL 27	10.00		

413336073112601. Local number WY 37.

LOCATION.--Lat 41°33'36", long 73°11'26", Hydrologic Unit 01100005, near Nonewaug High School, by brook in back of storage building, Woodbury; Woodbury Quadrangle.

Owner: Town of Woodbury.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 25.5 ft (7.8 m), plastic casing to 22.5 ft (6.9 m), screened 22.5 to 25.5 ft (6.9 to 7.8 m).

DATUM.--Altitude of land-surface datum is 299 ft (91.1 m) (from topographic map). Measuring point: Top of plastic casing, 0.2 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.9 ft (0.29 m) below land-surface datum, Jan. 30, 1979; lowest, 4.35 ft (1.33 m) below land-surface datum, Aug. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	2.43	APR 30	1.20	JUN 4	-	AUG 27	4.35
NOV	-	JAN 3	1.67	MAR 30	1.93	MAY	-	JUN 29	3.37	SEP 28	3.10
		30	0.95					JUL 27	3.48		

413318073112601. Local number WY 38.

LOCATION.--Lat 41°33'18", long 73°11'26", Hydrologic Unit 01100005, 25 ft (7.6 m) northwest of Middle Road Turnpike, 350 ft (106.7 m) north of Ash Swamp Road intersection, Woodbury; Woodbury Quadrangle.

Owner: Frederick Strong.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 57 ft (17.4 m), plastic casing to 52 ft (15.9 m), screened 52 to 57 ft (15.85 to 17.4 m).

DATUM.--Altitude of land-surface datum is 319 ft (97.2 m) (from topographic map). Measuring point: Top of plastic casing, 1.80 ft (0.55 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.13 ft (12.8 m) below land-surface datum, Jan. 30, 1979; lowest, 45.03 ft (13.7 m) below land-surface datum, Aug. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	43.09	APR 30	42.22	JUN 4	42.71	AUG 27	45.03
NOV	-	JAN 2	44.85	MAR 30	42.45	MAY	-	JUN 29	43.84	SEP 28	44.89
		30	42.13					JUL 27	44.84		

LITCHFIELD COUNTY--Continued

413206073123501. Local number WY 39.

LOCATION.--Lat 41°32'06", long 73°12'35", Hydrologic Unit 01100005, 375 ft (114.3 m) south of backstop, 300 ft (91.4 m) southeast of swimming pond in recreation area to west of Main Street, Woodbury; Woodbury Quadrangle.

Owner: Town of Woodbury.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.2 ft (6.8 m), plastic casing to 19.2 ft (5.9 m), screened 19.2 to 22.2 ft (5.9 to 6.8 m).

DATUM.--Altitude of land-surface datum is 232 ft (70.7 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.75 ft (1.1 m) below land-surface datum, Apr. 30, 1979; lowest, 6.46 ft (1.97 m) below land-surface datum, Aug. 28, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	5.92	APR 30	3.75	JUN 4	5.24	AUG 28	6.46
NOV	-	JAN 3	4.06	MAR 30	5.11	MAY	-	JUN 29	6.28	SEP 28	6.15
		30	4.08					JUL 27	6.49		

413051073121901. Local number WY 40.

LOCATION.--Lat 41°30'51", long 73°12'19", Hydrologic Unit 01100005, 90 ft (27.4 m) north of intersection of Route 6 and Terrace Apartment's driveway, 35 ft (10.7 m) west of Route 6, Woodbury; Woodbury Quadrangle.

Owner: Terrace Apartment.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Dug, unused, water-table well, diameter 2 ft (0.61 m), depth 26.5 ft (8.1 m).

DATUM.--Altitude of land-surface datum is 235 ft (71.6 m) (from topographic map). Measuring point: Small ridge in concrete on inner edge at southeast corner, 2.7 ft (0.82 m) above land-surface datum.

REMARKS.--Ancient Greek-style well covering.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.25 ft (5.6 m) below land-surface datum, Jan. 30, 1979; lowest, 23.10 ft (7.0 m) below land-surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	21.64	APR 30	19.22	JUN 4	20.33	AUG 28	23.02
NOV	-	JAN 2	21.82	MAR 30	20.37	MAY	-	JUN 29	21.89	SEP 28	21.18
		30	18.25					JUL 27	23.10		

413259073113401. Local number WY 41.

LOCATION.--Lat 41°32'59", long 73°11'34", Hydrologic Unit 01100005, in front of apartment house by the town garage on White Deer Rocks Road, Woodbury; Woodbury Quadrangle.

Owner: James Ravenscroft.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Dug, unused, water-table well, diameter 3 ft (0.91 m), depth 14 ft (4.3 m).

DATUM.--Altitude of land-surface datum is 295 ft (89.9 m) (from topographic map). Measuring point: Top of concrete casing, east side at land-surface datum.

REMARKS.--Well cover held up by wooden spacers.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.09 ft (1.9 m) below land-surface datum, Jan. 30, 1980; lowest, 8.49 ft (2.6 m) below land-surface datum, July 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	7.69	APR 30	6.48	JUN 4	7.29	AUG 28	8.33
NOV	-	JAN 2	7.90	MAR 30	7.65	MAY	-	JUN 29	7.98	SEP 28	8.22
		30	6.30					JUL 27	8.49		

MIDDLESEX COUNTY

341

413033072432001. Local number, MF 1.

LOCATION.--Lat 41°30'33", long 72°43'20", Hydrologic Unit 01080205, about 100 ft (30 m) east of West Street and about 600 ft (183 m) 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 (0.61 m), depth 22 ft (6.7 m), stone-lined.

DATUM.--Altitude of land-surface datum is 260 ft (79 m)(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, 2.69 ft (0.82 m) below land-surface datum, Mar. 24, 1978; lowest, 16.92 ft (5.16 m) below land-surface datum, Nov. 24, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	10.83	DEC 21	6.53	FEB 27	5.62	APR 25	6.50	JUN 26	8.40	AUG 24	11.61
NOV 28	10.70	JAN 24	4.30	MAR 26	5.73	MAY 30	4.77	JUL 25	10.33	SEP 25	12.10

413254072335501. Local number, MT 261.

LOCATION.--Lat 41°32'54", long 72°33'55", Hydrologic Unit 01080205, about 200 ft (61 m) east of River Road and 200 ft (61 m) 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 (0.91 m), depth 27.6 ft (8.4 m), stone-lined.

DATUM.--Altitude of land-surface datum is 145 ft (44 m)(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 (5.30 m) below land-surface datum, March 25, 1977; lowest, dry, Nov. 1, 1957, Dec. 2, 1957, Nov. 25, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	24.37	DEC 21	23.45	FEB 23	19.36	APR 24	19.59	JUN 25	20.30	AUG 29	22.82
NOV 28	25.21	JAN 24	17.85	MAR 26	18.59	MAY 30	19.28	JUL 24	21.42	SEP 24	23.69

NEW HAVEN COUNTY

411457072524501. Local number, EHV 70.

LOCATION.--Lat 41°14'57", long 72°52'45", Hydrologic Unit 01100004, 300 ft (91 m) west and 65 ft (20 m) 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 (0.61 m), depth 16 ft (5 m) concrete-tile lined.

DATUM.--Altitude of land-surface datum is 25 ft (8 m)(from topographic map). Measuring point: Top of concrete tile, east side, 2.10 ft (0.64 m) above land-surface datum.

PERIOD OF RECORD.--Aug. 1935 to June 1939 and April 1951 to current year.

EXTREMES FOR PERIOD OF RECORD: Highest water level, 6.44 ft (1.96 m) below land-surface datum, June 21, 1972; lowest, 16.03 ft (4.89 m) below land-surface datum, Nov. 22, 1935.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.90	DEC 27	10.54	FEB 27	9.42	APR 25	10.63	JUN 26	11.91	AUG 28	14.90
NOV 29	14.01	JAN 29	7.22	MAR 27	9.39	MAY 30	10.13	JUL 25	13.83	SEP 25	14.59

GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

412423072534401. Local number HM 443.

LOCATION.--Lat 41°24'23", long 72°53'44", Hydrologic Unit 01100004, east of River Road, southeast of Atwood House, 30 ft (9.1 m) southeast of large maple tree, 8 ft (2.4 m) north of oak tree, Hamden; Mt. Carmel Quadrangle.

Owner: New Haven Water Co.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter, 2 in (0.051 m), depth 23 ft (7.01 m), plastic casing to 18 ft (5.5 m) screened 18 to 23 ft (5.49 to 7.01 m).

DATUM.--Altitude of land-surface datum is 70 ft (21.34 m) (from topographic map). Measuring point: Top of plastic casing, 2.4 ft (0.73 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.76 ft (0.54 m) below land-surface datum Jan. 28, 1976; lowest, 7.10 ft (2.2 m) below land-surface datum, Oct. 17, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	7.10	DEC 19	4.02	FEB 24	2.33	APR 28	4.26	JUN 22	5.13	AUG 24	4.87
NOV 25	3.84	JAN 28	1.76	MAR 22	3.89	MAY 24	4.16	JUL 26	5.84	SEP 27	5.55

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 26	4.23	DEC 22	4.12	FEB 24	5.31	APR 26	3.69	JUN 23	5.08	AUG 26	6.42
NOV 24	4.98	JAN 26	5.21	MAR 28	2.77	MAY 25	4.59	JUL 27	6.09	SEP 28	5.43

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 27	4.55	DEC 21	3.67	FEB 23	4.43	APR 28	3.99	JUN 26	4.85	AUG 28	6.00
NOV -	-	JAN 30	2.75	MAR 29	1.88	MAY 25	3.26	JUL 25	5.53	SEP 27	5.76

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 25	5.82	DEC 27	4.40	FEB 27	3.49	APR 25	4.69	JUN 26	5.32	AUG 29	6.32
NOV 29	5.53	JAN 29	2.15	MAR 27	3.99	MAY 30	4.07	JUL 25	6.09	SEP 25	6.17

412312072534001. Local number HM 444.

LOCATION.--Lat 41°23'12", long 72°53'34", Hydrologic Unit 01100004, west of Mill River and Wilbur Cross Parkway, north side of dirt road between two sewer manhole covers, Hamden; Mt. Carmel Quadrangle.

Owner: New Haven Water Co.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22 ft (6.7 m), plastic casing to 17 ft (5.2 m), screened 17 to 22 ft (5.2 to 6.7 m).

DATUM.--Altitude of land-surface datum is 58 ft (17.7 m) (from topographic map). Measuring point: 2.26 ft (0.69 m) above land-surface datum.

REMARKS.--Well destroyed January 1977.

PERIOD OF RECORD.--October 1975 to December 1976.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.36 ft (0.41 m) below land-surface datum, Jan. 28, 1976; lowest, 4.84 ft (1.5 m) below land-surface datum, Oct. 17, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	4.84	DEC 19	3.41	FEB 24	2.82	APR 28	3.33	JUN 22	4.04	AUG 24	3.84
NOV 25	3.37	JAN 28	1.36	MAR 22	3.17	MAY 24	3.54	JUL 26	4.26	SEP 27	4.23

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 26	3.69	NOV		DEC 23	3.99
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NEW HAVEN COUNTY--Continued

411829072542001. Local number, NHN 179.
 LOCATION.--Lat 41°18'29", long 72°54'20", Hydrologic Unit 01100004, 1 ft (0.3 m) north of parking lot curb, 40 ft (12 m) south of Grand Avenue centerline, and 220 ft (67 m) 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 (0.08 m), depth 64 ft (19.5 m)(formerly reported as 65 ft).
 DATUM.--Land-surface datum is 13.95 ft (4.25 m) National Geodetic Vertical Datum of 1929, formerly reported as 13.76 ft (4.19 m). Measuring point: Top of casing, 0.4 ft (0.12 m) 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 level for Mar. 22, 1975, should be above mean sea level instead of below as reported in 1974. 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, 7.77 ft (2.37 m) below land-surface datum, Jan. 29, 1979; lowest, 21.53 ft (6.56 m) below land-surface datum, July 30, 1957, date formerly reported as July 26, 1971.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	10.70	DEC 27	10.49	FEB 27	7.78	APR 25	9.92	JUN 26	9.96	AUG 28	10.47
NOV 29	10.69	JAN 29	7.77	MAR 27	9.50	MAY 30	9.94	JUL 25	11.42	SEP 25	10.40

411826072553601. Local number, NHN 354.
 LOCATION.--Lat 41°18'26", long 72°55'36", Hydrologic Unit 01100004, on the Green 70 ft (21 m) southeast of College Street and 10 ft (3 m) 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 1/4 in (0.03 m), depth 43 ft (13 m), screened 40 to 43 ft (12 to 13 m).
 DATUM.--Altitude of land-surface datum is 25 ft (8 m) (from topographic map). Measuring point: Top of pipe coupling at land-surface datum.
 REMARKS.--Water-quality records for water years 1971-75 are published in reports of the U.S. Geological Survey (WRDC 1971-75, WDR-75-1).
 PERIOD OF RECORD.--August 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.00 ft (4.57 m) below land-surface datum, Feb. 24, 1977; lowest, 21.98 ft (6.69 m) below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	21.47	DEC 27	21.94	FEB 27	-	APR 26	17.80	JUN 26	21.79	AUG 28	21.96
NOV 29	21.98	JAN 29	-	MAR 27	-	MAY	-	JUL 25	21.61	SEP 25	21.76

411834072570701. Local number, NHN 358.
 LOCATION.--Lat 41°18'43", long 72°57'07", Hydrologic Unit 01100004, in Barnard School yard, 150 ft (46 m) south of Derby Avenue and 5 ft (2 m) 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 1/4 in (0.03 m), depth 44 ft (13 m), screened 41 to 44 ft (12 to 13 m).
 DATUM.--Altitude of land-surface datum is 25 ft (8 m)(from topographic map). Measuring point: Top of pipe coupling at land-surface datum.
 REMARKS.--Water-quality records for water years 1971-75 are published in reports of the U.S. Geological Survey (WRDC 1971-74, WDR-75-1).
 PERIOD OF RECORD.--August 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.54 ft (7.48 m) below land surface datum, Mar. 27, 1979; lowest, 26.56 ft (8.10 m) below land-surface datum, Sept. 25, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	26.00	DEC 27	26.04	FEB 27	24.71	APR 26	25.10	JUN 26	25.09	AUG 28	25.56
NOV 29	26.18	JAN 29	-	MAR 27	24.54	MAY 30	24.74	JUL 25	25.37	SEP 25	25.79

NEW HAVEN COUNTY--Continued

411843072544001. Local number, NHN 364.

LOCATION.--Lat 41°18'43", long 72°54'40", Hydrologic Unit 01100004, on Connecticut Department of Transportation I-91 right-of-way, 15 ft (4.6 m) west of Wallace Street and 25 ft (8 m) south of Walnut Street, New Haven; New Haven 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 (0.05 m), depth 41 ft (12 m), plastic casing slotted 36 to 41 ft (11 to 12 m).

DATUM.--Altitude of land-surface datum is 27 ft (8 m) (from topographic map). Measuring point: Top of steel nipple at land-surface datum.

REMARKS.--Drilled August 1975 to replace NHN 355 which was about 100 ft (30 m) northeast. Water-quality records for 1975 water year are published in a report of the U.S. Geological Survey (WDR-75-1).

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.10 ft (5.21 m) below land-surface datum, Feb. 25, 1976; lowest, 26.02 ft (7.93 m) below land-surface datum, May 25, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	21.35	DEC 27	21.42	FEB 27	20.33	APR 26	20.60	JUN 26	20.67	AUG 28	21.23
NOV 29	21.60	JAN 29	20.06	MAR 27	20.20	MAY 30	20.20	JUL 25	21.00	SEP 25	21.34

412307072515201. Local number NHV 201.

LOCATION.--Lat 41°23'07", long 72°51'52", Hydrologic Unit 01100004, in Center School yard, 7 ft (2.1 m) north of row of trees, 25 ft (7.6 m) 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 (0.051 m), depth 32 ft (9.75 m), plastic casing to 27 ft (8.2 m), screened 27 ft to 32 ft (8.23 m to 9.75 m).

DATUM.--Altitude of land-surface datum is 35 ft (10.67 m) (from topographic map). Measuring point: Top of plastic casing, 0.7 ft (0.21 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.27 ft (4.04 m) below land-surface datum, Mar. 27, 1979; lowest, 16.96 ft (5.17 m) below land-surface datum, Feb. 24, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	16.64	DEC 19	15.08	FEB 24	13.92	APR 28	14.69	JUN 22	15.44	AUG 24	15.64
NOV 25	5.09	JAN 28	14.28	MAR 23	14.64	MAY 26	14.93	JUL 26	16.11	SEP 27	15.73

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.61	DEC 23	16.33	FEB 24	16.96	APR 26	14.41	JUN 23	15.43	AUG 26	14.64
NOV 24	14.99	JAN 26	16.70	MAR 29	14.94	MAY 25	15.12	JUL 27	16.17	SEP 28	16.37

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	15.40	DEC 21	14.67	FEB 23	14.56	APR 28	14.43	JUN 26	15.04	AUG 28	15.54
NOV	-	JAN 30	13.91	MAR 29	14.10	MAY 25	14.58	JUL 25	15.41	SEP 27	15.65

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	16.00	DEC 27	15.83	FEB 27	13.95	APR 25	14.15	JUN 26	14.66	AUG 29	16.11
NOV 29	16.45	JAN 29	13.35	MAR 27	13.27	MAY 30	13.98	JUL 25	15.63	SEP 25	16.28

GROUND-WATER LEVELS

345

NEW HAVEN COUNTY--Continued

41255072510601. Local number NHV 202.

LOCATION.--Lat 41°25'55", long 72°51'06", 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 (0.051 m), depth, 65 ft (19.8 m), plastic casing to 60 ft (18.3 m), screened 60 ft to 65 ft (18.28 m to 19.8 m).

DATUM.--Altitude of land-surface datum is 55 ft (16.76 m) (from topographic map). Measuring point: Top of plastic casing, 2.7 ft (0.82 m) above land surface datum.

PERIOD OF RECORD.--October 1975 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.98 ft (11.27 m) below land-surface datum, Mar. 27, 1979; lowest, 57.19 ft (17.43 m) below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	48.51	DEC 19	42.16	FEB 25	39.40	APR 28	38.60	JUN 22	43.02	AUG 24	46.68
NOV 25	42.11	JAN 28	40.51	MAR 25	37.84	MAY 26	39.79	JUL 26	46.87	SEP 27	49.13

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 26	49.52	DEC 22	49.72	FEB 25	52.52	APR 26	40.31	JUN 28	46.87	AUG 26	50.59
NOV 24	49.69	JAN 26	51.09	MAR 29	44.28	MAY 25	41.90	JUL 27	49.56	SEP 28	53.06

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 27	51.00	DEC 21	49.68	FEB 23	42.03	APR 28	39.27	JUN 26	45.10	AUG 28	51.55
NOV	-	JAN 30	42.12	MAR 29	39.52	MAY 25	42.13	JUL 25	49.77	SEP 27	53.64

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 25	55.22	DEC 27	56.45	FEB 27	39.05	APR 25	40.15	JUN 26	44.29	AUG 29	50.94
NOV 29	57.19	JAN 29	39.99	MAR 27	36.98	MAY 30	41.52	JUL 25	47.50	SEP 25	53.90

412435072512701. Local number NHV 203.

LOCATION.--Lat 41°24'35", long 72°51'27", Hydrologic Unit 01100004, 30 ft (9.14 m) west of dense stand of trees. East of Merritt Parkway in small clearing, 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 (0.051 m), depth 31 ft (9.44 m), steel casing to 26 ft (7.9 m), screened 26 to 31 ft (7.9 to 9.4 m).

DATUM.--Altitude of land-surface datum is 15 ft (4.57 m) (from topographic map). Measuring point: Top of steel casing, 1.94 ft (0.59 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.86 ft (0.57 m) below land-surface datum, Jan. 29, 1979; lowest, 14.15 ft (4.3 m) below land-surface datum, Sept. 25, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	8.26	DEC 19	7.47	FEB	-	APR 28	7.40	JUN 22	10.01	AUG 24	11.36
NOV 25	5.80	JAN	-	MAR 25	6.57	MAY 26	3.19	JUL 26	12.41	SEP 27	11.76

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT 26	8.01	DEC 22	10.90	FEB 25	12.05	APR 27	6.10	JUN 28	10.84	AUG 26	13.69
NOV 24	10.38	JAN 26	11.75	MAR 29	3.35	MAY 25	8.27	JUL 27	13.07	SEP 28	11.48

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 27	9.53	DEC 21	6.11	FEB 23	7.33	APR 28	3.97	JUN 26	9.13	AUG 29	11.08
NOV	-	JAN 30	2.25	MAR 29	-	MAY 25	5.86	JUL 25	11.69	SEP 27	11.55

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 25	12.08	DEC 27	8.85	FEB 27	2.85	APR 25	7.78	JUN 26	9.86	AUG 29	14.10
NOV 29	12.66	JAN 29	1.86	MAR 27	6.07	MAY 30	5.84	JUL 25	13.89	SEP 25	14.15

GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

412740073142501. Local number SB 24.

LOCATION.--Lat 41°27'40", long 73°14'25", Hydrologic Unit 01100005, ¼ mile (402 m) west of Route 127 and Route 6 intersection between cable fence and wire fence in grassy area, Southbury; Southbury Quadrangle.
 Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 107 ft (32.6 m), steel casing to 41.4 ft (12.6 m), screened 41.4 to 44.4 ft (12.62 to 13.53 m).

DATUM.--Altitude of land-surface datum is 202 ft (61.57 m) (from topographic map). Measuring point: Top of steel casing, 2.8 ft (0.85 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.43 ft (12.02 m) below land-surface datum, June 4, 1979;
 lowest, 41.13 ft (12.54 m) below land-surface datum, Feb. 27, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	40.73	APR 30	39.72	JUN 4	39.43	AUG 28	40.45
NOV	-	JAN 2	41.07	MAR 28	40.10	MAY	-	29	39.60	SEP 28	40.70
		30	40.72					JUL 27	40.09		

412748073135501. Local number SB 25.

LOCATION.--Lat 41°27'48", long 72°13'55", Hydrologic Unit 01100005, east of Main Street, 75 ft (23 m) south of pole no. 662, 40 ft (12 m) east of pole no. 661, Southbury; Southbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 41.4 ft (12.62 m), plastic casing to 38.4 ft (11.7 m), screened 38.4 ft to 41.4 ft (11.70 m to 12.62 m).

DATUM.--Altitude of land-surface datum is 204 ft (62.18 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.22 ft (6.77 m) below land-surface datum, June 4, 1979;
 lowest, 29.58 ft (9.02 m) below land-surface datum, Jan. 2, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	27.17	APR 30	24.47	JUN 4	22.22	AUG 28	25.79
NOV	-	JAN 2	29.58	MAR 28	25.69	MAY	-	29	22.56	SEP 28	27.04
		30	27.50					JUL 27	24.16		

412807073132501. Local number SB 26.

LOCATION.--Lat 41°28'07", long 73°13'25", Hydrologic Unit 01100005, in back of town garage between Peter Road and Main St., Southbury; Southbury Quadrangle.

Owner: Town of Southbury.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 75.1 ft (22.9 m), plastic casing to 70.1 ft (21.4 m), screened 70.1 ft to 75.1 ft (21.4 m to 22.9 m).

DATUM.--Altitude of land-surface datum is 251 ft (76.5 m) (from topographic map). Measuring point: Top of plastic casing, 0.8 ft (0.24 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 55.02 ft (16.77 m) below land-surface datum, July 27, 1979;
 lowest, 59.49 ft (18.13 m) below land-surface datum, Jan. 30, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	59.25	APR 30	57.40	JUN 4	56.22	AUG 28	55.83
NOV	-	JAN 2	59.20	MAR 28	58.00	MAY	-	29	55.32	SEP 28	56.74
		30	59.49					JUL 27	55.02		

GROUND-WATER LEVELS

347

NEW HAVEN COUNTY--Continued

412901073124901. Local number SB 27.

LOCATION.--Lat 41°29'01", long 73°12'49", Hydrologic Unit 01100005, 60 ft (18.3 m) west of Route 6, 15 ft (4.6 m) south of Pine Hill Road, Southbury; Southbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.5 ft (6.86 m), plastic casing to 17.5 ft (5.33 m), screened 17.5 ft to 22.5 ft (5.33 m to 6.86 m).

DATUM.--Altitude of land-surface datum is 245 ft (74.68 m) (from topographic map). Measuring point: Top of plastic casing, 0.8 ft (0.24 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.72 ft (1.44 m) below land-surface datum, Apr. 30, 1979; lowest, 9.78 ft (2.98 m) below land-surface datum, Aug. 28, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	7.18	APR 30	4.72	JUN 4	5.79	AUG 28	9.78
NOV	-	JAN 2	9.22	MAR 28	5.60	MAY	-	JUL 29	7.69	SEP 28	9.47
		30	5.69					JUL 27	9.32		

412906073133301. Local number SB 28.

LOCATION.--Lat 41°29'06", long 73°13'33", Hydrologic Unit 01100005, 25 ft (7.6 m) west of fence on west side of Poverty Road, 400 ft (122 m) south of intersection of Poverty Road and Heritage Road, Southbury; Southbury Quadrangle.

Owner: Heritage Village Golf Course.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 32.9 ft (10.02 m), plastic casing to 29.9 ft (9.11 m), screened 29.9 ft to 32.9 ft (9.11 m to 10.02 m).

DATUM.--Altitude of land-surface datum is 215 ft (65.53 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.3 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.41 ft (4.39 m) below land-surface datum, Jan. 30, 1979; lowest, 21.09 ft (6.43 m) below land-surface datum, Feb. 27, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	18.19	APR 30	16.19	JUN 4	16.90	AUG 28	20.24
NOV	-	JAN 2	19.88	MAR 28	16.35	MAY	-	JUL 29	18.74	SEP 28	19.65
		30	14.41					JUL 27	20.45		

412929073125901. Local number SB 29.

LOCATION.--Lat 41°29'29", long 73°12'59", Hydrologic Unit, 01100005, southwest of intersection of Old Field Road and gravel road, 10 ft (3.1 m) north of Irish Grooms grave, Southbury; Southbury Quadrangle.

Owner: Middleground Cemetery

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 32.7 ft (9.97 m), plastic casing to 27.7 ft (8.4 m), screened 27.7 ft to 32.7 ft (8.4 m to 9.9 m).

DATUM.--Altitude of land-surface datum is 220 ft (67.1 m) (from topographic map). Measuring point: Top of plastic casing, 2.8 ft (0.85 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.66 ft (4.77 m) below land-surface datum, Jan. 30, 1979; lowest, 20.32 ft (6.19 m) below land-surface datum, Aug. 28, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	18.23	APR 30	16.79	JUN 4	17.07	AUG 28	20.32
NOV	-	JAN 2	18.83	MAR 28	16.69	MAY	-	JUL 29	18.95	SEP 28	19.96
		30	15.66					JUL 27	19.88		

NEW HAVEN COUNTY--Continued

412954073125201. Local number SB 30.

LOCATION.--Lat 41°29'54", long 73°12'52", Hydrologic Unit 01100005, at intersection of Route 67 and Route 6 at the southwest corner, Southbury; Southbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 27.5 ft (8.4 m), plastic casing to 22.5 ft (6.9 m), screened 22.5 ft to 27.5 ft (6.9 m to 8.4 m).

DATUM.--Altitude of land-surface datum is 252 ft (76.8 m) (from topographic map). Measuring point: Top of plastic casing, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 16.37 ft (4.9 m) below land-surface datum, Apr. 30, 1979; lowest, 21.87 ft (6.7 m) below land-surface datum, Aug. 28, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	17.52	APR 30	16.37	JUN 4	16.87	AUG 28	21.87
NOV	-	JAN 2	19.72	MAR 28	16.63	MAY		29	18.21	SEP 28	21.00
		30	16.28					JUL 27	19.80		

413019073131101. Local number SB 31.

LOCATION.--Lat 41°30'19", long 73°13'11", Hydrologic Unit 01100005, north of road owned by Silliman Sand and Gravel Co., between two ponds, Southbury; Woodbury Quadrangle.

Owner: Silliman Sand and Gravel Co.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 41.6 ft (12.68 m), plastic casing to 36.6 ft (11.16 m), screened 36.6 to 41.6 ft (11.16 to 12.68 m).

DATUM.--Altitude of land-surface datum is 200 ft (61.0 m) (from topographic map). Measuring point: Top of plastic casing, 1.8 ft (0.55 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.03 ft (7.32 m) below land-surface datum, June 4, 1979; lowest, 29.18 ft (8.89 m) below land-surface datum, Jan. 3, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	27.04	APR 30	24.53	JUN 4	24.03	AUG 28	27.47
NOV	-	JAN 3	29.18	MAR 28	25.18	MAY	-	29	25.31	SEP 28	26.47
		30	26.89					JUL 27	26.63		

413007073124601. Local number SB 32.

LOCATION.--Lat 41°30'07", long 73°12'46", Hydrologic Unit 01100005, between Mansfield House Road and Main Street, 60 ft (18.3 m) northeast of utility pole 52, Southbury; Woodbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 26.3 ft (8.02 m), plastic casing to 21.3 ft (6.49 m), screened 21.3 to 26.3 ft (6.49 to 8.02 m).

DATUM.--Altitude of land-surface datum is 230 ft (70.1 m) (from topographic map). Measuring point: Top of plastic casing, 1.5 ft (0.46 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 9.21 ft (2.8 m) below land-surface datum, Mar. 30, 1979; lowest, 15.57 ft (4.8 m) below land-surface datum, Aug. 27, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	14.83	APR 30	9.21	JUN 4	12.83	AUG 28	14.85
NOV	-	JAN 2	13.14	MAR 30	10.76	MAY	-	29	15.21	SEP 28	13.78
		30	10.72					JUL 27	15.57		

GROUND-WATER LEVELS

349

NEW HAVEN COUNTY--Continued

413020073133501. Local number SB 33.

LOCATION.--Lat 41°30'20", long 73°13'35", Hydrologic Unit 01100005, in White Oaks Cemetery, 8 ft (2.4 m) east of Route 6, Southbury; Woodbury Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 47.3 ft (14.4 m), steel casing to 43.3 ft (13.2 m), screened 43.3 to 47.3 ft (13.2 to 14.4 m).

DATUM.--Altitude of land-surface datum is 253 ft (77.1 m) (from topographic map). Measuring point: Top of steel casing, 2.1 ft (0.64 m) above land-surface datum.

PERIOD OF RECORD.--January 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.52 ft (7.8 m) below land-surface datum, Jan. 30, 1979; lowest, 30.37 ft (9.3 m) below land-surface datum, Jan. 2, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB 22	27.69	APR 30	26.60	JUN 4	27.30	AUG 28	29.74
NOV	-	JAN 2	30.37	MAR 30	26.75	MAY	-	JUN 29	27.94	SEP 28	30.16
		30	25.52					JUL 27	28.81		

413134073021701. Local number, WB 93.

LOCATION.--Lat 41°31'34", long 73°02'17", Hydrologic Unit 01100005, 10 ft (3 m) 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 (0.81 m), depth 33 ft (10 m), stone-lined.

DATUM.--Altitude of land-surface datum is 320 ft (98 m) (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, 23.99 ft (7.31 m) below land-surface datum, Apr. 1, 1953; lowest, 29.68 ft (9.05 m) below land-surface datum, Sept. 27, 1962.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	27.90	DEC 26	27.65	FEB 27	26.82	APR 25	26.68	JUN 27	27.53	AUG 28	27.78
NOV 30	28.02	JAN 30	24.66	MAR 27	25.85	MAY 30	26.78	JUL 25	27.95	SEP 26	27.70

413245072584201. Local number, WB 198.

LOCATION.--Lat 41°32'45", long 72°58'42", Hydrologic Unit 01100005, 10 ft (3 m) north of house at 185 Pierpont Road, Waterbury; Southington Quadrangle.

Owner: A. Baker.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug, unused, water-table well, diameter 30 in (0.76 m), depth 31 ft (9 m), stone-lined.

DATUM.--Altitude of land-surface datum is 540 ft (165 m) (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 (1.66 m) below land-surface datum, Jan. 10, 1946; lowest, 21.00 ft (6.40 m) below land-surface datum, Nov. 26, 1949.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	15.67	DEC 26	16.90	FEB 27	12.50	APR 25	12.07	JUN 27	13.45	AUG 28	14.62
NOV 30	17.73	JAN 30	10.72	MAR 27	11.07	MAY 30	12.03	JUL 25	15.03	SEP 26	15.07

GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

412657072502901. Local number WLD 270.

LOCATION.--Lat 41°26'57", long 72°50'29", Hydrologic Unit 01100004, 75 ft (22.9 m) west of Wilbur Cross Parkway, 170 ft (51.8 m) south of gaging station, Wallingford; Wallingford Quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22 ft (6.71 m), plastic casing to 17 ft (5.2 m), screened 17 to 22 ft (5.2 to 6.7 m).

DATUM.--Altitude of land-surface datum is 27 ft (8.23 m) (from topographic map). Measuring point: Top of plastic casing, 1.0 ft (0.31 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to October 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.05 ft (1.23 m) above land-surface datum, Jan. 28, 1976; lowest, 13.58 ft (4.14 m) below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	10.46	DEC 5	9.26	FEB 25	8.48	APR 28	9.20	JUN 22	10.66	AUG 24	11.75
NOV 25	10.25	JAN 28	4.05	MAR 25	9.07	MAR 26	9.51	JUL 26	11.88	SEP 27	12.14

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	11.09	12.34	10.09	7.49	4.37	9.86	11.31	12.39	12.80
2			---	11.09	12.34	10.04	7.74	4.35	9.85	11.44	12.39	12.80
3			---	11.09	12.34	9.47	7.75	4.35	9.86	11.45	12.39	12.80
4			---	11.09	12.34	9.60	7.75	4.23	9.86	11.47	12.39	12.80
5			---	11.09	12.34	9.60	7.80	4.21	9.75	11.53	12.39	12.80
6			---	11.09	12.34	9.70	7.80	4.21	9.72	11.63	12.39	12.80
7			---	11.09	12.34	9.60	7.17	4.21	9.70	11.63	12.39	12.80
8			---	11.09	12.34	9.60	4.53	4.21	9.70	11.62	12.39	12.80
9			---	11.09	12.34	9.64	8.43	4.47	9.69	11.51	12.39	12.80
10			---	11.09	---	9.64	8.30	4.44	9.65	11.50	12.39	12.80
11			---	11.07	---	9.69	8.21	4.44	9.90	11.50	12.39	12.80
12			---	11.07	---	9.69	8.21	4.76	9.90	11.50	12.39	12.80
13			---	11.07	---	9.69	7.99	4.60	9.86	11.50	12.39	12.80
14			---	11.07	---	9.69	7.89	4.45	9.70	11.59	12.39	12.80
15			---	11.07	---	9.69	7.73	4.49	9.67	11.65	12.39	12.80
16			---	11.05	---	9.69	7.69	4.33	9.55	11.67	12.39	12.80
17			---	11.04	---	9.69	7.67	4.23	9.48	11.67	12.39	12.80
18			---	---	---	9.69	7.67	4.21	9.47	11.81	12.39	12.80
19			---	---	---	9.69	7.47	4.18	9.47	11.64	12.39	12.80
20			11.35	---	---	9.69	7.37	4.15	9.46	11.85	12.39	12.80
21			11.35	---	---	9.69	7.37	4.11	9.34	11.98	12.39	12.80
22			11.35	---	---	9.69	7.37	4.03	9.27	12.00	12.39	12.80
23			11.35	---	---	9.69	7.35	4.01	9.14	12.01	12.39	12.80
24			11.32	---	---	9.69	7.32	4.43	9.15	12.01	12.39	12.80
25			11.32	---	10.09	9.69	7.64	10.10	9.10	12.01	12.39	12.80
26			11.32	---	10.09	9.69	8.46	10.10	9.04	11.96	12.80	12.80
27			11.32	---	10.10	9.69	8.45	10.10	9.08	12.05	12.80	12.80
28			11.29	---	10.10	9.69	8.52	10.10	11.38	12.19	12.80	12.31
29			11.28	---	---	9.69	8.55	10.10	11.38	12.26	12.80	11.88
30			11.26	---	---	8.29	4.42	10.06	11.29	12.29	12.80	11.98
31			11.09	---	---	8.22	---	9.88	---	12.39	12.80	---
MEAN			11.35	11.09	12.34	10.09	9.40	10.10	11.38	12.39	12.80	12.80
DAYS			12	17	13	31	30	31	30	31	31	30

GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE DURING WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	11.45	12.41	11.87	10.43	10.42	10.52	7.54	9.30	7.46	10.78	
2	11.46	12.41	10.46	10.43	10.42	10.57	7.54	9.31	7.38	10.94	
3	12.00	12.43	11.00	10.43	10.42	10.57	7.54	9.34	7.35	10.95	
4	12.04	12.44	11.04	10.43	10.42	10.59	7.54	9.42	7.35	10.80	
5	12.06	12.45	11.17	10.43	10.42	10.70	7.54	9.42	7.35	10.42	
6	12.16	12.45	11.17	10.43	10.42	10.72	7.54	9.42	7.35	10.60	
7	12.20	12.46	11.14	10.43	10.42	10.74	7.54	9.42	7.22	10.69	
8	12.21	12.46	11.25	10.43	10.42	10.80	7.54	9.43	7.22	10.54	
9	12.21	11.17	11.25	10.43	10.42	10.81	7.54	9.44	7.22	10.80	
10	11.25	11.07	11.25	10.43	10.42	10.81	7.54	9.44	7.22	10.94	
11	11.43	11.28	11.27	10.43	10.42	10.81	7.54	9.44	7.17	10.95	
12	11.81	11.49	11.41	10.43	10.42	10.80	7.54	9.44	7.04	10.98	
13	11.77	11.54	11.47	10.43	10.42	10.84	7.54	9.44	6.93	11.12	
14	11.74	11.57	11.47	10.43	10.42	10.84	7.54	9.47	6.93	11.12	
15	11.55	11.54	10.53	10.43	10.42	9.36	7.54	9.47	6.91	11.10	
16	11.54	11.72	10.51	10.43	10.42	9.06	7.54	9.44	6.87	11.00	
17	11.54	11.72	10.40	10.43	10.42	9.06	7.54	9.44	6.76	11.04	
18	11.49	11.55	10.41	10.43	10.42	9.06	7.54	9.44	6.36	11.04	
19	11.52	11.46	10.41	10.43	10.42	9.06	7.54	9.44	6.36	11.10	
20	11.37	11.74	10.45	10.43	10.42	9.06	7.54	9.44	6.36	11.04	
21	11.06	11.74	10.45	10.43	10.42	9.06	7.54	9.35	6.36	11.30	
22	11.12	11.43	9.63	10.43	10.42	9.06	7.54	9.37	6.36	11.20	
23	11.16	11.46	9.04	10.43	10.42	9.06	7.54	9.38	6.36	11.30	
24	11.19	11.56	9.74	10.43	10.41	9.06	7.54	9.44	6.30	11.38	
25	11.24	11.55	9.74	10.43	10.41	9.06	7.54	9.44	6.27	11.38	
26	11.24	11.46	9.74	10.43	10.41	9.06	7.55	9.44	6.12	---	
27	11.24	11.54	9.94	10.43	10.41	9.06	7.57	9.46	10.24	---	
28	12.22	11.41	10.17	10.43	10.44	9.06	7.55	9.45	10.60	---	
29	12.23	11.79	10.21	10.43	---	9.06	9.45	7.43	10.62	---	
30	12.27	11.71	10.41	10.43	---	7.19	9.41	7.54	10.72	---	
31	12.40	---	10.22	10.42	---	7.44	---	7.61	---	---	
MAX DAYS	12.40 31	12.44 30	11.55 31	10.43 31	10.49 28	10.81 31	9.36 30	9.44 31	10.72 30	11.38 25	

WATER LEVEL, IN FEET BELOW LAND SURFACE DURING WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	12.14	12.47	12.46	10.75	---	9.54	7.54	9.60	10.30	11.71	
2	12.14	12.47	12.39	10.40	---	9.53	7.55	9.71	10.35	11.71	
3	12.14	12.47	12.44	9.85	---	9.54	9.10	9.79	10.48	11.77	
4	12.16	12.47	12.46	9.41	---	9.58	9.01	9.84	10.54	11.77	
5	12.16	12.47	12.43	9.31	---	9.58	9.04	9.86	10.64	11.77	
6	11.70	12.47	12.17	9.31	---	9.55	9.10	9.91	10.69	11.80	
7	11.53	12.44	12.17	9.31	---	9.74	9.15	9.93	10.73	11.81	
8	11.60	12.44	12.17	9.31	---	9.75	9.40	9.97	10.74	11.85	
9	11.74	12.54	12.17	9.31	---	9.75	9.33	9.91	10.81	11.80	
10	11.50	12.54	11.54	9.31	---	9.51	9.48	9.03	10.46	11.90	
11	11.88	12.54	11.66	9.31	---	9.56	9.53	9.11	10.49	11.90	
12	11.40	12.54	11.77	9.31	---	9.75	9.55	9.16	10.90	11.90	
13	11.98	12.54	11.77	9.31	7.42	9.76	9.55	9.24	11.02	11.37	
14	11.98	12.54	11.74	9.31	7.46	9.78	9.55	9.45	11.03	11.33	
15	11.99	12.54	11.82	9.31	7.74	9.79	9.50	9.52	11.12	11.56	
16	12.00	12.54	11.43	9.31	7.82	9.57	9.54	9.58	11.12	11.73	
17	12.07	12.54	11.43	9.31	7.87	9.63	9.83	9.64	11.23	11.78	
18	12.09	12.54	11.44	9.31	7.92	9.72	9.72	9.54	11.02	11.85	
19	12.10	12.54	11.44	9.31	7.94	9.79	9.74	9.67	11.04	11.85	
20	12.13	12.54	11.48	9.31	7.99	9.82	9.79	9.78	11.23	11.85	
21	12.14	12.54	11.48	9.31	8.04	9.84	9.84	9.87	11.45	11.76	
22	12.30	12.54	11.46	9.31	8.06	9.85	9.90	9.93	11.45	11.76	
23	12.30	12.54	11.44	9.31	8.19	9.87	9.91	10.01	11.43	11.88	
24	12.31	12.54	11.75	9.31	8.19	9.90	9.97	10.12	11.35	11.88	
25	12.32	12.54	11.54	9.31	8.14	9.95	9.29	10.12	11.46	11.88	
26	12.53	12.54	11.25	9.31	8.20	9.96	9.01	10.25	11.46	11.91	
27	12.53	12.54	11.23	9.31	8.39	9.77	9.25	10.23	11.46	11.97	
28	12.44	12.54	11.23	9.31	8.42	9.47	9.34	10.23	11.46	11.97	
29	12.37	12.54	11.23	9.31	8.44	7.37	9.34	10.38	11.46	11.97	
30	12.34	12.34	10.46	---	8.46	7.71	9.48	10.38	11.46	---	
31	12.41	---	10.44	---	8.47	---	9.54	---	11.56	---	
MAX DAYS	12.53 31	12.54 30	12.34 31	10.76 29	8.47 19	9.96 30	9.91 31	10.38 30	11.56 31	11.97 29	

NEW LONDON COUNTY

412013072030601. Local number, GT 19.

LOCATION.--Lat 41°20'13", long 72°03'06", Hydrologic Unit 01100003, 150 ft (46 m) east and 48 ft (15 m) 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 (0.61 m), depth 18 ft (5.5 m), stone-lined.

DATUM.--Altitude of land-surface datum is 22 ft (7 m) (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 (3.04 m) below land-surface datum, Apr. 6, 1970; lowest, 17.97 ft (5.48 m) below land-surface datum, Oct. 6, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

412824072173301. Local number SM 7.

LOCATION.--Lat 41°28'24", long 72°17'33", Hydrologic Unit 01080205, 100 ft (30.5 m) east of State Route 11 northbound lane, 0.9 mi (1.4 km) 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 (0.05 m), depth 17 ft (5.18 m), plastic casing to 12 ft (3.7 m), screened 12 to 17 ft (3.7 to 5.2 m).

DATUM. -1.7 ft (0.52 m) above land-surface datum is 238 ft (72.54 m) (from topographic map). Measuring point: Top of casing, 1.7 ft (0.52 m) above land-surface datum.

PERIOD OF RECORD.--April 1979 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.82 ft (2.69 m) below land-surface datum June 3, 1979; lowest, 12.91 ft (3.93 m) below land-surface datum, Sept. 24, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT	-	DEC	-	FEB	-	APR 4	9.10	JUN 3	8.82	AUG 24	12.72
NOV	-	JAN	-	MAR	-	MAY	-	JUL 25	10.42	SEP 24	12.91
								JUL 24	12.10		

412311071522301. Local number SN 164.

LOCATION. -- Lat 41°23'11", long 71°52'23", Hydrologic Unit 01100003, 25 ft (7.6 m) south and 20 ft (6.1 m) 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 (0.05 m), depth 19.6 ft (5.97 m), steel casing to 14.6 ft (4.5 m), screened 14.6 to 19.6 ft (4.5 to 6.0 m).

DATUM.--Altitude of land-surface datum is 48 ft (14.6 m)(from topographic map). Measuring point: Top of steel casing, 0.3 ft (0.09 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.09 ft (1.25 m) below land-surface datum, May 29, 1979; lowest, 15.2 ft (4.63 m) below land-surface datum, Nov. 26, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		
OCT 15	7.59	DEC 28	7.91	FEB 23	8.05	APR 25	6.97	JUN 27	7.56	AUG 24	8.25
NOV 26	15.20	JAN 25	7.75	MAR 25	5.19	MAY 23	6.96	JUL 25	8.23	SEP 26	7.25

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 25	5.55	DEC 20	5.82	FEB 21	7.17	APR 24	6.63	JUN 22	7.70	AUG 24	7.89
NOV 21	6.42	JAN 23	-	MAR 24	6.27	MAY 23	6.49	JUL 21	7.78	SEP 25	8.04

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT 23	8.33	DEC 21	6.17	FEB 23	6.99	APR 24	6.57	JUN 25	7.07	AUG 24	7.81
NOV 28	7.54	JAN 24	4.91	MAR 26	6.27	MAY 29	4.09	JUL 24	7.95	SEP 24	7.77

GROUND-WATER LEVELS

353

NEW LONDON COUNTY--Continued

412400071520801. Local number SN 165.

LOCATION.--Lat 41°24'00", long 71°52'08", Hydrologic Unit 01100003, 1,800 ft (548.6 m) south of Pequot Trail, 1,200 ft (365.1 m) east of South Anguilla Road, 50 ft (15.2 m) east of Anguilla Brook, Stonington; Ashaway Quadrangle.

Owner: T. Cannan.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22.2 ft (6.7 m), plastic casing to 17.2 ft (5.24 m), screened 17.2 to 22.2 ft (5.24 to 6.7 m).

DATUM.--Altitude of land-surface datum is 36 ft (10.97 m) (from topographic map). Measuring point: Top of casing, 1.7 ft (0.52 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.69 ft (0.21 m) below land-surface datum, Jan. 24, 1979; lowest, 4.3 ft (1.31 m) below land-surface datum, Nov. 26, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	2.57	DEC -	-	FEB 23	2.58	APR 25	1.50	JUN 27	2.31	AUG 24	2.35
NOV 26	4.30	JAN 25	3.11	MAR 25	0.80	MAY 23	2.10	JUL 25	2.71	SEP 26	1.63

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	1.16	DEC 20	1.10	FEB 21	-	APR 24	1.52	JUN 22	2.14	AUG 24	2.26
NOV 21	1.08	JAN 23	-	MAR 24	-	MAY 23	1.56	JUL 21	1.83	SEP 25	2.21

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	2.30	DEC 21	0.90	FEB 23	1.59	APR 24	1.72	JUN 25	2.24	AUG 24	2.34
NOV 28	1.67	JAN 24	0.69	MAR 26	1.49	MAY 31	0.99	JUL 24	2.72	SEP 24	1.78

TOLLAND COUNTY

414548072114501. Local number, MS 19.

LOCATION.--Lat 41°45'48", long 72°11'45", Hydrologic Unit 01100002, 400 ft (122 m) east of State Route 195 and 225 ft (69 m) north of Cemetery Road, Mansfield; Spring Hill Quadrangle.

Owner: C. T. DeBoer.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Dug, unused, water-table well, diameter 36 in (0.91 m), depth 22 ft (6.7 m), concrete tile.

DATUM.--Altitude of land-surface datum is 260 ft (79 m) (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 (2.71 m) below land-surface datum, Mar. 24, 1972; lowest, 15.72 ft (4.79 m) below land-surface datum, Jan. 26, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.30	DEC 21	13.27	FEB 23	10.22	APR 24	10.07	JUN 25	10.47	AUG 24	11.94
NOV 28	13.85	JAN 24	10.12	MAR 26	9.79	MAY 29	9.93	JUL 24	11.61	SEP 24	12.42

GROUND-WATER LEVELS

WINDHAM COUNTY

414911071562001. Local number, BK 41.

LOCATION.--Lat 41°49'11", long 71°56'20", Hydrologic Unit 01100001, 725 ft (221 m) east of Barrett Hill Road and 66 ft (20 m) north of Darby Road, Brooklyn; Danielson Quadrangle.

Owner: Richard Brouillard.

AQUIFER.--Crystalline bedrock.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (0.15 m), depth 107 ft (32.6 m), steel casing to 9 ft (3 m).

DATUM.--Altitude of land-surface datum is 330 ft (101 m)(from topographic map). Measuring point: Top of casing 1.15 ft (0.35 m) above land-surface datum.

PERIOD OF RECORD.--March 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.95 ft (1.20 m) below land-surface datum, Mar. 25, 1977; lowest, 17.60 ft (5.36 m) below land-surface datum, Sept. 27, 1957, formerly reported dry Aug. 26, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	12.85	DEC 21	10.06	FEB 23	10.09	APR 24	9.87	JUN 25	11.33	AUG 24	12.05
NOV 28	12.12	JAN 24	4.58	MAR 26	8.10	MAY 29	7.07	JUL 24	13.44	SEP 24	11.78

414054071552001. Local number, PL 1.

LOCATION.--Lat 41°40'54", long 71°55'20", Hydrologic Unit 01100001, 195 ft (59 m) south of Pleasant Street, 1300 ft (400 m) 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 (0.91 m), depth 34 ft (10.4 m), brick-lined.

DATUM.--Altitude of land-surface datum is 180 ft (55 m)(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 (610 m) distance since about August 1962.

PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.24 (8.30 m) below land-surface datum, Apr. 28, 1953; lowest, 33.22 ft (10.13 m) below land-surface datum, Feb. 11, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	30.92	DEC 21	30.73	FEB 23	27.90	APR 24	28.70	JUN 25	28.71	AUG 24	30.65
NOV 28	30.33	JAN 24	28.28	MAR 26	27.84	MAY 29	28.54	JUL 24	29.87	SEP 24	30.88

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979
SEMI-QUANTITATIVE ANALYSIS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY (ICP)

355

			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)
LITCHFIELD COUNTY TOWN OF WOODBURY													
168	WY	11	41 33 25	073 12 35	01	112DFSF	126	79-08-14	30	7	7	1	
168	WY	20	41 32 53	073 12 32	01	112DFSF	104	79-08-09	30	10	10	1	
168	WY	23	41 31 21	073 12 27	01	112DFSF	54	79-08-14	30	7	10	1	
168	WY	25	41 33 39	073 11 43	01	112DFSF	22.4	79-08-09	7	3	3	1	
168	WY	26	41 33 00	073 12 19	01	112DFSF	34.0	79-08-09	70	30	10	5	
168	WY	27	41 33 31	073 12 27	01	112DFSF	23.0	79-08-09	10	7	5	3	
168	WY	28	41 33 30	073 12 54	01	112DFSF	22.7	79-08-08	10	5	30	3	
168	WY	31	41 32 47	073 12 59	01	112DFSF	59.9	79-08-10	30	7	5	3	
168	WY	32	41 32 38	073 13 26	01	112DFSF	45.9	79-08-10	10	5	7	1	
168	WY	33	41 31 41	073 11 57	01	112DFSF	22.4	79-08-14	10	7	10	1	
168	WY	35	41 31 19	073 12 35	01	112DFSF	22.7	79-08-15	7	1	5	<1	
168	WY	39	41 32 06	073 12 35	01	112DFSF	22.0	79-08-08	30	7	5	3	
168	WY	42	41 31 24	073 12 24	01	112DFSF	26.0	79-08-14	30	7	10	1	
			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)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, DIS- SOLVED (UG/L AS Cd)	CHRO- MIUM, DIS- SOLVED (UG/L AS Cr)	COBALT, DIS- SOLVED (UG/L AS Co)	
168	WY	11		10	<50	<30	70	<1	50	<1	<50	<5	
168	WY	20		10	<50	<30	50	<1	50	<1	<50	<5	
168	WY	23		10	<50	<30	30	<1	70	<1	<50	<5	
168	WY	25		10	<50	<30	10	<1	10	<1	<50	<5	
168	WY	26		10	<50	<30	30	<1	30	<1	<50	10	
168	WY	27		10	<50	<30	30	<1	30	<1	<50	<5	
168	WY	28		10	<50	<30	30	<1	50	<1	<50	<5	
168	WY	31		10	<50	<30	30	<1	10	1	<50	<5	
168	WY	32		10	<50	<30	30	<1	30	<1	<50	<5	
168	WY	33		10	<50	<30	50	<1	30	<1	<50	<5	
168	WY	35		10	<50	<30	30	<1	50	3	<50	70	
168	WY	39		10	<50	<30	30	<1	30	<1	<50	<5	
168	WY	42		10	<50	<30	50	<1	50	3	<50	<5	
			LOCAL IDENT- I- FIER	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)		
168	WY	11		<10	<30	<30	<5	<30	<5	1	<10		
168	WY	20		1000	<30	<30	<5	<30	<5	5	<10		
168	WY	23		<10	<30	<30	<5	<30	<5	<1	<10		
168	WY	25		<10	<30	<30	<5	<30	<5	3	<10		
168	WY	26		<10	<30	100	1000	<30	<5	3000	10		
168	WY	27		<10	<30	<30	<5	<30	<5	300	<10		
168	WY	28		<10	<30	<30	<5	<30	<5	70	<10		
168	WY	31		<10	<30	<30	<5	<30	<5	5	<10		
168	WY	32		<10	<30	<30	<5	<30	7	10	<10		
168	WY	33		<10	<30	<30	<5	<30	<5	1	<10		
168	WY	35		<10	<30	<30	7000	<30	<5	1000	<10		
168	WY	39		<10	<30	<30	<5	<30	<5	<1	<10		
168	WY	42		<10	<30	<30	<5	<30	<5	50	<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)	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)		
168	WY	11		<50	<10	100	100	<5	<10	10	<5		
168	WY	20		<50	<10	100	300	<5	<10	100	<5		
168	WY	23		<50	<10	100	100	<5	<10	7	<5		
168	WY	25		<50	<10	50	<50	<5	<10	10	<5		
168	WY	26		<50	<10	300	700	<5	<10	<5	<5		
168	WY	27		<50	<10	100	100	<5	<10	<5	<5		
168	WY	28		<50	<10	100	100	<5	<10	10	<5		
168	WY	31		<50	<10	70	300	<5	<10	10	<5		
168	WY	32		<50	<10	50	100	<5	<10	10	<5		
168	WY	33		<50	<10	70	100	<5	<10	<5	<5		
168	WY	35		<50	<10	50	100	<5	<10	30	<5		
168	WY	39		<50	<10	70	300	<5	<10	<5	<5		
168	WY	42		<50	<10	100	300	<5	<10	5000	<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 1978 TO SEPTEMBER 1979--Continued
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)
NEW HAVEN COUNTY TOWN OF SOUTHURY												
130	SB	4	41 29 28	073 13 24	01	112DFSF	64.0	79-08-08	10	5	7	1
130	SB	25	41 27 48	073 13 55	01	112DFSF	41.4	79-08-15	30	10	70	3
130	SB	27	41 29 01	073 12 49	01	112DFSF	22.5	79-08-07	30	10	7	<1
130	SB	28	41 29 06	073 13 33	01	112DFSF	32.9	79-08-08	70	10	5	<1
130	SB	29	41 29 29	073 12 59	01	112DFSF	32.7	79-08-07	30	7	10	<1
130	SB	30	41 29 54	073 12 52	01	112DFSF	27.5	79-08-07	10	7	10	1
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)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, DIS- SOLVED (UG/L AS Cd)	CHRO- MIUM, DIS- SOLVED (UG/L AS Cr)	COBALT, DIS- SOLVED (UG/L AS Co)	
130	SB	4	10	<50	<30	50	<1	30	<1	<50	<5	
130	SB	25	10	<50	<30	50	<1	50	<1	<50	<5	
130	SB	27	30	<50	<30	7	<1	100	<1	<50	<5	
130	SB	28	10	<50	<30	70	<1	30	<1	<50	<5	
130	SB	29	10	<50	<30	30	<1	30	<1	<50	<5	
130	SB	30	10	<50	<30	10	<1	30	<1	<50	<5	
LOCAL IDENT- I- FIER			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)		
130	SB	4	10	<30	<30	<5	<30	<5	5	<10		
130	SB	25	<10	<30	<30	10	<30	7	10	<10		
130	SB	27	<10	<30	<30	<5	<30	5	<1	<10		
130	SB	28	<10	<30	<30	<5	<30	7	<1	<10		
130	SB	29	<10	<30	<30	<5	<30	<5	<1	<10		
130	SB	30	<10	<30	<30	<5	<30	<5	5	<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)	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)		
130	SB	4	<50	<10	100	100	<5	<10	5	<5		
130	SB	25	<50	<10	100	300	<5	<10	50	<5		
130	SB	27	<50	<10	50	300	<5	<10	7	<5		
130	SB	28	<50	<10	100	300	<5	<10	<5	<5		
130	SB	29	<50	<10	100	100	<5	<10	10	<5		
130	SB	30	<50	<10	50	100	<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
WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979--Continued

357

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CaCO3)
FAIRFIELD COUNTY TOWN OF NEWTOWN										
097 NT 15P	41 22 58	073 15 27	01	300NCBC	--	79-07-25	108	5.9	12.0	--
097 NT 12	41 24 00	073 15 59	01	112DFSf	108	79-07-11	100	5.9	14.0	--
097 NT 14	41 25 11	073 16 41	01	112DFSf	68	79-07-11	20	5.7	17.5	--
097 NT 59	41 25 26	073 16 18	01	112DFSf	19	79-07-12	265	5.9	18.0	--
097 NT 62	41 24 37	073 17 00	01	112DFSf	20	79-07-05	50	5.5	18.0	--
097 NT 63	41 24 07	073 15 57	01	112DFSf	20	79-07-09	82	6.5	14.0	--
097 NT 64	41 23 41	073 16 03	01	112DFSf	20	79-07-09	68	6.2	14.0	--
097 NT 65	41 24 48	073 16 59	01	112DFSf	12	79-07-05	225	6.0	14.0	--
097 NT 71	41 24 22	073 16 22	01	112DFSf	40	79-07-11	160	6.2	15.0	--
097 NT 72	41 23 04	073 16 37	01	112DFSf	40	79-07-25	163	7.8	19.0	--
097 NT 73	41 22 52	073 16 15	01	112DFSf	30	79-07-10	--	--	--	--
097 NT 79	41 24 30	073 16 09	01	112DFSf	56	79-07-11	50	5.5	18.0	--
097 NT 81	41 24 17	073 16 12	01	112DFSf	70	79-07-25	144	7.9	19.0	--
LITCHFIELD COUNTY TOWN OF WOODBURY										
168 WY 11	41 33 25	073 12 35	01	112DFSf	126	79-08-14	234	6.1	12.0	100
168 WY 20	41 32 53	073 12 32	01	112DFSf	104	79-08-09	202	7.1	15.5	120
168 WY 23	41 31 21	073 12 27	01	112DFSf	54	79-08-14	230	6.4	12.5	80
168 WY 25	41 33 39	073 11 43	01	112DFSf	22	79-08-09	90	5.8	12.0	28
168 WY 26	41 33 00	073 12 19	01	112DFSf	34	79-08-09	560	7.2	13.0	260
168 WY 27	41 33 31	073 12 27	01	112DFSf	23	79-08-09	180	5.8	11.0	69
168 WY 28	41 33 30	073 12 54	01	112DFSf	22	79-08-08	290	6.0	10.0	52
168 WY 31	41 32 47	073 12 59	01	112DFSf	59	79-08-10	225	6.6	12.0	86
168 WY 32	41 32 38	073 13 26	01	112DFSf	45	79-08-10	190	6.6	10.5	60
168 WY 33	41 31 41	073 11 57	01	112DFSf	22	79-08-14	235	6.4	11.0	71
168 WY 35	41 31 19	073 12 35	01	112DFSf	22	79-08-15	113	5.9	11.5	28
168 WY 39	41 32 06	073 12 35	01	112DFSf	22	79-08-08	202	7.0	12.0	76
168 WY 42	41 31 24	073 12 24	01	112DFSf	26	79-08-14	260	5.9	11.0	83
NEW HAVEN COUNTY TOWN OF NEW HAVEN										
093 NHN 354	41 18 26	072 55 36	01	112DFSf	43	79-04-26	790	6.9	16.5	290
093 NHN 358	41 18 34	072 57 07	01	112DFSf	44	79-04-26	535	7.0	15.0	240
093 NHN 364	41 18 43	072 54 40	01	112DFSf	41	79-04-26	620	7.0	14.0	240
TOWN OF SOUTHBURY										
130 SB 4	41 29 28	073 13 24	01	112DFSf	64	79-08-08	165	7.2	12.5	56
130 SB 25	41 27 48	073 13 55	01	112DFSf	41	79-08-15	600	6.4	11.5	150
130 SB 27	41 29 01	073 12 49	01	112DFSf	22	79-08-07	260	6.6	13.0	110
130 SB 28	41 29 06	073 13 33	01	112DFSf	32	79-08-08	425	7.0	10.0	210
130 SB 29	41 29 29	073 12 59	01	112DFSf	32	79-08-07	225	6.4	10.5	76
130 SB 30	41 29 54	073 12 52	01	112DFSf	27	79-08-07	215	6.2	12.5	63

Geologic unit (aquifer):
112DFSf - Stratified drift
300NCBC - Non-carbonate crystalline bedrock

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979-- Continued

LOCAL IDENT- IFIER		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 NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
FAIRFIELD COUNTY--Continued											
TOWN OF NEWTOWN--Continued											
097	NT 15P	--	--	--	--	--	--	--	--	--	--
097	NT 12	--	--	--	--	--	--	--	--	--	--
097	NT 14	--	--	--	--	--	--	--	--	--	--
097	NT 59	--	--	--	--	--	--	--	--	--	--
097	NT 62	--	--	--	--	--	--	--	--	--	--
097	NT 63	--	--	--	--	--	--	--	--	--	--
097	NT 64	--	--	--	--	--	--	--	--	--	--
097	NT 65	--	--	--	--	--	--	--	--	--	--
097	NT 71	--	--	--	--	--	--	--	--	--	--
097	NT 72	--	--	--	--	--	--	--	--	--	--
097	NT 73	--	--	--	--	--	--	--	--	--	--
097	NT 79	--	--	--	--	--	--	--	--	--	--
097	NT 81	--	--	--	--	--	--	--	--	--	--
LITCHFIELD COUNTY--Continued											
TOWN OF WOODBURY--Continued											
168	WY 11	52	30	6.0	6.7	13	.3	8.4	1.7	48	16
168	WY 20	50	34	8.6	18	24	.7	20	1.7	70	20
168	WY 23	44	22	6.0	11	23	.5	12	1.1	36	21
168	WY 25	16	8.0	2.0	4.1	23	.3	5.5	1.4	12	12
168	WY 26	130	66	22	15	11	.4	21	5.7	130	10
168	WY 27	48	18	5.8	4.7	12	.2	7.4	2.7	21	23
168	WY 28	33	15	3.6	29	53	1.7	31	2.4	19	17
168	WY 31	66	22	7.5	6.0	13	.3	8.2	2.2	20	7.6
168	WY 32	34	16	4.9	7.2	20	.4	8.7	1.5	26	15
168	WY 33	47	19	5.6	18	35	.9	19	1.1	24	13
168	WY 35	17	8.5	1.7	5.1	27	.4	6.0	.9	11	13
168	WY 39	29	21	5.7	6.0	14	.3	9.3	3.3	47	9.6
168	WY 42	40	22	6.7	14	35	.7	16	1.7	43	13
NEW HAVEN COUNTY--Continued											
TOWN OF NEW HAVEN--Continued											
093	NHN 354	140	94	14	--	--	--	--	--	150	78
093	NHN 358	150	59	22	--	--	--	--	--	85	130
093	NHN 364	58	59	22	--	--	--	--	--	180	54
TOWN OF SOUTHURY--Continued											
130	SB 4	24	16	4.0	7.3	22	.4	8.3	1.0	32	14
130	SB 25	78	40	13	61	46	2.1	65	3.7	75	25
130	SB 27	33	28	8.6	7.6	14	.3	7.9	.3	72	11
130	SB 28	88	65	11	5.7	6	.2	6.3	.6	120	15
130	SB 29	37	22	5.1	9.2	21	.5	10	1.0	39	14
130	SB 30	36	16	5.7	11	36	.6	12	1.4	27	11

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979-- Continued

359

LOCAL IDENT- I- FIER	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 CONSTIT- UENTS, 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)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)
FAIRFIELD COUNTY--Continued										
TOWN OF NEWTOWN--Continued										
097 NT 1SP	--	--	--	--	--	--	--	--	--	--
097 NT 12	--	--	--	--	--	--	--	--	--	--
097 NT 14	--	--	--	--	--	--	--	--	--	--
097 NT 59	--	--	--	--	--	--	--	--	--	--
097 NT 62	--	--	--	--	--	--	--	--	--	--
097 NT 63	--	--	--	--	--	--	--	--	--	--
097 NT 64	--	--	--	--	--	--	--	--	--	--
097 NT 65	--	--	--	--	--	--	--	--	--	--
097 NT 71	--	--	--	--	--	--	--	--	--	--
097 NT 72	--	--	--	--	--	--	--	--	--	--
097 NT 73	--	--	--	--	--	--	--	--	--	--
097 NT 79	--	--	--	--	--	--	--	--	--	--
097 NT 81	--	--	--	--	--	--	--	--	--	--
LITCHFIELD COUNTY--Continued										
TOWN OF WOODBURY--Continued										
168 WY 11	16	.0	18	--	150	.20	--	6.1	--	--
168 WY 20	28	.1	17	--	197	.27	--	6.1	--	--
168 WY 23	26	.1	15	--	130	.18	--	1.3	--	--
168 WY 25	4.1	.1	14	--	57	.08	--	.98	--	--
168 WY 26	100	.2	15	--	312	.42	--	.01	--	--
168 WY 27	12	.1	13	--	107	.15	--	3.5	--	--
168 WY 28	43	.1	11	--	153	.21	--	4.6	--	--
168 WY 31	5.6	.0	14	--	148	.20	--	16	--	--
168 WY 32	11	.1	19	--	106	.14	--	3.5	--	--
168 WY 33	42	.1	12	--	127	.17	--	.45	--	--
168 WY 35	12	.1	18	--	66	.09	--	.00	--	--
168 WY 39	19	.1	11	--	109	.15	--	1.1	--	--
168 WY 42	36	.1	11	--	142	.19	--	2.7	--	--
NEW HAVEN COUNTY--Continued										
TOWN OF NEW HAVEN--Continued										
093 NHN 354	87	.0	24	4/4	--	.54	8.5	5.1	.00	.00
093 NHN 358	26	.0	19	366	--	.50	4.9	5.0	.00	.00
093 NHN 364	61	.1	24	405	--	.55	4.1	4.2	.01	.01
TOWN OF SOUTHBRURY--Continued										
130 SB 4	13	.1	13	--	92	.13	--	.92	--	--
130 SB 25	120	.0	17	--	334	.45	--	2.1	--	--
130 SB 27	20	.1	22	--	154	.21	--	2.9	--	--
130 SB 28	45	.2	17	--	256	.35	--	5.4	--	--
130 SB 29	27	.1	13	--	119	.16	--	.85	--	--
130 SB 30	28	.1	21	--	113	.15	--	.57	--	--

			LOCAL IDENT- IFIER		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)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)
FAIRFIELD COUNTY--Continued													
TOWN OF NEWTOWN--Continued													
047	NT	15P		--	--	--	--	--	--	--	--	6	40
047	NT	12		--	--	--	--	--	--	--	--	2	16
047	NT	14		--	--	--	--	--	--	--	--	2	19
047	NT	59		--	--	--	--	--	--	--	--	28	37
047	NT	62		--	--	--	--	--	--	--	--	2	16
047	NT	63		--	--	--	--	--	--	--	--	2	18
047	NT	64		--	--	--	--	--	--	--	--	10	49
047	NT	65		--	--	--	--	--	--	--	--	5	48
047	NT	71		--	--	--	--	--	--	--	--	3	20
047	NT	72		--	--	--	--	--	--	--	--	2	33
047	NT	73		--	--	--	--	--	--	--	--	6	25
047	NT	74		--	--	--	--	--	--	--	--	2	16
047	NT	81		--	--	--	--	--	--	--	--	1	17
LITCHFIELD COUNTY--Continued													
TOWN OF WOODBURY--Continued													
168	WY	11		--	--	--	--	--	--	--	0	--	--
168	WY	20		--	--	--	--	--	--	--	0	--	--
168	WY	23		--	--	--	--	--	--	--	0	--	--
168	WY	25		--	--	--	--	--	--	--	0	--	--
168	WY	26		--	--	--	--	--	--	--	4	--	--
168	WY	27		--	--	--	--	--	--	--	0	--	--
168	WY	28		--	--	--	--	--	--	--	0	--	--
168	WY	31		--	--	--	--	--	--	--	0	--	--
168	WY	32		--	--	--	--	--	--	--	0	--	--
168	WY	33		--	--	--	--	--	--	--	0	--	--
168	WY	35		--	--	--	--	--	--	--	4	--	--
168	WY	39		--	--	--	--	--	--	--	1	--	--
168	WY	42		--	--	--	--	--	--	--	0	--	--
NEW HAVEN COUNTY--Continued													
TOWN OF NEW HAVEN--Continued													
043	NHN	354		.13	.13	8.6	38	.05	.15	--	--	--	--
043	NHN	358		.17	.17	5.1	22	.09	.28	--	--	--	--
043	NHN	364		.28	.29	4.4	19	.10	.49	--	--	--	--
TOWN OF SOUTHURY--Continued													
130	SH	4		--	--	--	--	--	--	--	0	--	--
130	SH	25		--	--	--	--	--	--	--	0	--	--
130	SH	27		--	--	--	--	--	--	--	0	--	--
130	SH	28		--	--	--	--	--	--	--	0	--	--
130	SH	29		--	--	--	--	--	--	--	0	--	--
130	SH	30		--	--	--	--	--	--	--	0	--	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR 1978 TO SEPTEMBER 1979-- Continued

361

	LOCAL IDENTI- FIER	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
FAIRFIELD COUNTY--Continued				
TOWN OF NEWTOWN--Continued				
097	NT 15P	--	--	--
097	NT 12	--	--	--
097	NT 14	--	--	--
097	NT 59	--	--	--
097	NT 62	--	--	--
097	NT 63	--	--	--
097	NT 64	--	--	--
097	NT 65	--	--	--
097	NT 71	--	--	--
097	NT 72	--	--	--
097	NT 73	--	--	--
097	NT 79	--	--	--
097	NT 81	--	--	--
LITCHFIELD COUNTY--Continued				
TOWN OF WOODBURY--Continued				
168	WY 11	.2	0	.10
168	WY 20	.1	0	.10
168	WY 23	.1	0	.00
168	WY 25	<.1	0	.00
168	WY 26	.2	0	.00
168	WY 27	.1	0	.00
168	WY 28	.1	0	.10
168	WY 31	.1	0	.00
168	WY 32	.1	0	.00
168	WY 33	.1	0	.00
168	WY 35	.1	0	.00
168	WY 39	<.1	0	.00
168	WY 42	.2	0	.00
NEW HAVEN COUNTY--Continued				
TOWN OF NEW HAVEN--Continued				
093	NHN 354	--	--	.10
093	NHN 358	--	--	.00
093	NHN 364	--	--	.00
TOWN OF SOUTHBURY--Continued				
130	SB 4	.2	0	.00
130	SB 25	.1	0	.00
130	SB 27	<.1	0	.00
130	SB 28	.1	0	.00
130	SB 29	.1	0	.00
130	SB 30	.1	0	.00

< ACUTAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN.

- Accuracy of field data and computed results, explanation of stage and water-discharge records 27-28
- Acknowledgements 3
- Acre-foot, definition of 4
- Adenosine triphosphate, definition of 5
- Agawam, Connecticut River at 119-122
- Algae, definition of 5
- Algal growth potential, definition of 5
- Analyses of samples collected at miscellaneous sites 319-327
- Ansonia, Naugatuck River at 299-300
- Aquifer, definition of 5
- Artesian, definition of 5
- Artificial substrate, definition of 16
- Ash mass, definition of 6
- Avon, Farmington River at 157
- Bacteria, definition of 5
- Barkhamsted, Barkhamsted Reservoir at 214-215
- Barkhamsted Reservoir at Barkhamsted 214-215
- Beacon Falls, Naugatuck River at 296-298
- Bed material, definition of 6
- Bethlehem, East Spring Brook near 319-327
- Nonewaug River near 319-327
- Wood Creek near 316
- Biochemical oxygen demand, definition of 6
- Biomass, definition of 6
- Blackberry River at Canaan 316
- Blackledge River near Gilead 316
- Black Rock Lake near Thomaston 303
- Blue-green algae, definition of 13
- Bottom material, definition of 7
- Bradley Hubbard Reservoir near Meriden 224
- Branch Brook near Thomaston 294
- Broad Brook, Scantic River at 133-136, 315
- Broad Brook Reservoir near Meriden 224
- Brookfield, ground-water levels in 328
- Brookfield Center, Lake Lillinonah near 256-257
- Still River at 254-255
- Brooklyn, ground-water levels in 354
- Buffumville, MA, Buffumville Lake at 118
- Buffumville Lake at Buffumville, MA 118
- Burlington, Burlington Brook near 144-146
- ground-water levels in 330
- Burlington Brook near Burlington 144-146
- Burnham, Podunk River near 168
- Butternut Brook near Litchfield 316
- Byram River, East Branch at Riversville 317
- Byram River basin, crest-stage partial-record station in 317
- Cady Brook at East Putnam 314
- Cairns Reservoir near Woodville 302-303
- Canaan, Blackberry River at 316
- Housatonic River near 230-236
- Candlewood, Lake, near New Milford 302-303
- Cells/volume, definition of 7
- Cfs-day, definition of 7
- Charter Brook near Crystal Lake 315
- Chemical oxygen demand, definition of 8
- Chlorophyll, definition of 8
- Clarks Falls, Pendleton Hill Brook near 41
- Coginchaug River at Rockfall 191
- Colchester, Judd Brook near 316
- Cold Spring, MA, Otis Reservoir near 214-215
- Colebrook River Lake near Riverton 214-215
- Coliform bacteria, total, definition of 5
- Collection and computation of data, explanation of stage and water-discharge records 22-27
- Collection and examination of data, explanation of water-quality records 28-29
- Collection of the data, explanation of ground-water level records 34
- Collinsville, Nepaug Reservoir near 214-215
- Color unit, definition of 8
- Columbia, Hop River near 314
- Conat Brook at West Willington 314
- Connecticut River, at Agawam, MA 119-122
- at East Haddam 211-212
- at Hartford 169-171
- at Middle Haddam 198-205
- at Middletown 192-193
- near Middletown 194-197
- at Thompsonville 123-132
- Connecticut River basin, crest-stage partial-record stations in 315-316
- gaging station records in 119-213
- reservoirs in 214-215
- tidal volume in 194-197
- Contents, definition of 8
- Control, definition of 8
- Control structure, definition of 8
- Cooperation 2-3
- Coventry, Willimantic River near 62-67
- Crest-stage partial-record stations 314-317
- Crystal Lake, Charter Brook near 315
- Cubic feet per second per square mile, definition of 8
- Cubic foot per second, definition of 8
- Definition of terms 4-19
- Denim Brook near Hunttsville 316
- Diatoms, definition of 13
- Discharge, definition of 8
- Discharge at partial-record stations 314-317
- Dissolved, definition of 9
- Diversity index, definition of 9
- Downstream order and station number 19-20
- Drainage area, definition of 9
- Drainage basin, definition of 9
- Dry mass, definition of 6
- Dudley, MA, Quinebaug River near 80-86
- Durham, Parmalee Brook near 315
- East Branch Detention Reservoir (Naugatuck River) near Torrington 302-303
- East Branch Reservoir (Farmington River) at New Hartford 214-215
- East Brimfield Lake at Fiskdale, MA 118
- East Haddam, Connecticut River at 211-212
- East Hampton, Salmon River near 206-210
- East Hartford, Hockanum River at 189-190
- Hockanum River near 188
- East Haven, ground-water levels in 341
- East Lyme, Fourmile River near 315
- Easton, Patterson Brook near 317
- East Putnam, Cady Brook at 314
- East River basin (east of Branford River), gaging station record in 216
- East Spring Brook near Bethlehem 319-327
- Eightmile River, at North Plain 213
- East Branch, near North Lyme 213
- Ellsworth, Guinea Brook at 246
- English Neighborhood Brook at North Woodstock 314
- Explanation of ground-water level records 34
- Explanation of stage and water-discharge records 22-28
- Explanation of water-quality records 33
- Fairfield, ground-water levels in 328
- Mill River near 305
- Rooster River at 303
- Fairfield County, ground-water levels in 328-329
- quality of ground-water records in 357-361
- Falls Village, Falls Village Reservoir at 237
- Housatonic River at 238-244
- Falls Village Reservoir at Falls Village 237
- Farmington, ground-water levels in 330-331
- Pequabuck River at 155-156
- Farmington River at Avon 157
- at Rainbow 165
- at Rainbow Fishway at Rainbow 161-164
- at Tariffville 158-160
- at State Highway 4, at Unionville 147-148
- at Unionville 149-153
- West Branch, at Riverton 137-139

Fecal coliform bacteria, definition of	6	Instantaneous discharge, definition of	9
Fecal streptococcal bacteria, definition of ..	6	Introduction	1-2
Fiskdale, MA, East Brimfield Lake at	118	Jacks Brook near Roxbury Falls	316
Fivemile River (tributary to Quinebaug River) at Killingly	314	Jewett City, Quinebaug River at	96-106
Fivemile River (tributary to Long Island Sound) near Norwalk	317	Judd Brook near Colchester	316
Fivemile River basin (tributary to Long Island Sound)	317	Killingly, Fivemile River at	314
crest-stage partial-record station in	317	Lakes and reservoirs:	
Forestville, Pequabuck River at	154	Barkhamsted Reservoir at Barkhamsted	214-215
Fourmile River near East Lyme	315	Black Rock Lake near Thomaston	303
Fourmile River basin, crest-stage partial-record station in	315	Bradley Hubbard Reservoir near Meriden	224
French River at Mechanicsville	89-90	Broad Brook Reservoir near Meriden	224
Gage height, definition of	9	Buffumville Lake at Buffumville, MA	118
Gaging station, definition of	10	Cairns Reservoir near Woodville	302-303
Gaging station records	41-313	Candlewood (Rocky River Reservoir), Lake, near New Milford	302-303
Gaylordsville, Housatonic River at	248-251	Colebrook River Lake near Riverton	214-215
Tenmile River near	247	East Branch (Farmington River) Reservoir at New Hartford	214-215
Gilead, Blackledge River near	316	East Branch (Naugatuck River) Detention Reservoir near Torrington	302-303
Gillette Brook at Somers	315	East Brimfield Lake at Fiskdale, MA	118
Great Barrington, MA, Housatonic River near ..	227-229	Falls Village Reservoir at Falls Village ..	237
Green algae, definition of	13	Hall Meadow Brook Detention Reservoir near Torrington	302-303
Groton, ground-water levels in	352	Hancock Brook Lake near Hancock	303
Poquonock River near	54	Highland Lake at Winsted	214-215
Ground-water records	328-361	Hodges Village Reservoir at Hodges Village, MA	118
Ground-water level records	329-354	Hop Brook Lake near Union City	303
Ground-water records, quality of	355-361	Lillinonah, Lake, near Brookfield Center ..	256-257
Guinea Brook at Ellsworth	246	near Newtown	302-303
Haleys Brook near Old Mystic	314	Mad River Detention Reservoir near Winsted ..	214-215
Hall Meadow Brook Detention Reservoir near Torrington	302-303	Mansfield Hollow Lake at Mansfield	118
Hamden, ground-water levels in	342	Morris Reservoir near Thomaston	302-303
Mill River near	225	Nepaug Reservoir near Collinsville	214-215
Hancock, Hancock Brook Lake near	303	Northfield Brook Lake at Thomaston	302-303
Hancock Brook near Terryville	317	Otis Reservoir at Cold Spring, MA	214-215
Hancock Brook Lake near Hancock	303	Pitch Reservoir near Thomaston	302-303
Hanover, Little River near	79	Shepaug Reservoir at Woodville	302-303
Hardness, definition of	10	Staffordville Reservoir at Staffordville ..	118
Hartford, Connecticut River at	169-171	Sucker Brook Reservoir near Winsted	214-215
Park River at	174-175	Thomaston Reservoir near Thomaston	302-303
Park River, North Branch at	173	West Branch (Farmington River) Reservoir near Riverton	214-215
Park River, South Branch at	172	West Thompson Lake at West Thompson	118
Hartford County, ground-water levels in	330-334	Westville Lake near Southbridge, MA	118
Harwinton, Leadmine Brook near	316	Whigville Reservoir at Whigville	214-215
Highland Lake at Winsted	214-215	Wigwam Reservoir near Thomaston	302-303
Hockanum River, at East Hartford	189-190	Winchester, Lake, at Winchester	302-303
near East Hartford	188	Wolcott Reservoir near Wolcott	224
Hodges Village, MA, Hodges Village Reservoir at	118	Zoar, Lake, at Riverside	273-274
Hodges Village Reservoir at Hodges Village, MA	118	at Stevenson	275, 302-303
Hop Brook at Manchester	187	Land-surface datum, definition of	10
near Naugatuck	295	Lanesville, Still River at	316
Hop Brook Lake near Union City	303	Leadmine Brook near Harwinton	316
Hop River near Columbia	314	Lillinonah, Lake, near Brookfield Center ..	256-257
Hotchkissville, Weekepeemee River near	268-269	near Newtown	302-303
Housatonic River, near Canaan	230-236	Lime Rock, Salmon Creek at	245
at Falls Village	238-244	Litchfield, Butternut Brook near	316
at Gaylordsville	248-251	Litchfield County, ground-water levels in ..	334-335
near Great Barrington, MA	227-229	quality of ground-water records in	355, 357-361
near New Milford	252-253	Little River (tributary to Shetucket River), near Hanover	79
at Stevenson	276-288	(tributary to Naugatuck River) at Oxford ..	317
at Stratford	301	Long Island Sound, gaging station records in	226, 311
Housatonic River basin, crest-stage partial-record stations in	316-317	Mad River Detention Reservoir near Winsted ..	214-215
gaging station records in	227-301	Madison, Neck River near	216
miscellaneous sites, analysis of samples collected at	319-327	Manchester, Hop Brook at	187
reservoirs in	302-303	Porter Brook near	176-186
Hubbard River near West Hartland	143	Mansfield, ground-water levels in	353
Huntsville, Deming Brook near	316	Mansfield Hollow, Mansfield Hollow Lake at ..	118
Hydrologic bench-mark station	21	Mansfield Hollow Lake at Mansfield Hollow ..	118
Hydrologic conditions	3-4	Marshepaug River near Milton	258
Hydrologic unit, definition of	10		

Mean concentration, definition of	15	New London County, ground-water levels in ...	352-353
Mean discharge, definition of	8	New Milford, Candlewood Lake near	302-303
Measuring point, definition	10	Housatonic River near	252-253
Mechanicsville, French River at	89-90	Newtown, ground-water levels in	328-329
Meriden, Bradley Hubbard Reservoir near	224	quality of ground-water records in	357-361
Broad Brook Reservoir near	224	Lillinonah, Lake, near	302-303
Quinnipiac River near	217-218	Nonewaug River near Bethlehem.....	319-327
Merrick Brook near Scotland	314	at Minortown.....	266-267
Merrrow, Willimantic River at	55-61	near Woodbury.....	319-327
Metamorphic stage, definition of	10	North Canaan, ground-water levels in	334
Methylene blue active substance, definition of	10	Northfield Brook Lake at Thomaston	302-303
Micrograms per gram, definition of	10	North Haven, ground-water levels in.....	344-345
Micrograms per liter, definition of	10	Quinnipiac River at	222-223
Middlefield, ground-water levels in	341	North Lyme, Eightmile River, East Branch, near	213
Middle Haddam, Connecticut River at	198-205	North Plain, Eightmile River at	316
Middlesex County, ground-water levels in ...	341	North Woodstock, English Neighborhood Brook at	314
Middletown, Connecticut River at	192-193	Norwalk, Fivemile River near	317
Connecticut River near	194-197	Norwalk River, at South Wilton	310
ground-water levels in	341	Norwalk River basin, gaging station records in	310
Milford, Wepawaug River at	316	Numbering system for wells and miscellaneous sites	20
Mill Brook at Newington	315	Old Mystic, Hales Brook near	314
Milligrams of carbon per area or volume per unit time, definition of	14	Organic mass, definition of	7
Milligrams of oxygen per area or volume per unit time, definition of	14	Organism, definition of	11
Milligrams per liter, definition of	11	Organism count/area, definition of	11
Mill River near Fairfield	305	Organism count/volume, definition of	11
near Hamden	225	Other data available, explanation of stage and water-discharge records	28
Mill River basin (east of Housatonic River), gaging station record in	225	Otis Reservoir at Cold Spring, MA	214-215
Mill River basin (west of Housatonic River), crest-stage partial-record station in ..	317	Oxford, Little River at	317
gaging station record in	305	Park River, at Hartford	174-175
Milton, Marshpaug River near	258	North Branch, at Hartford	173
Minortown, Nonewaug River at.....	266-267	South Branch, at Hartford	172
Miscellaneous sites, analyses of samples collected at	319-327	Parmalee Brook near Durham	315
discharge at.....	318	Partial-record station, definition of	11
Mohegan, Thames River near	115-117	Partial-record stations	314-317
Moosup, Moosup River at	315	Particle size, definition of	11
Moosup River at Moosup	315	Particle size classification, definition of ..	12
Morris Reservoir near Thomaston	302-303	Patterson Brook near Easton	317
Mount Hope River near Warrenville	68	Pawcatuck River at Westerly, R.I.	42-53
Muddy Brook near Woodstock	93	Pawcatuck River basin, gaging station records in	41-53
Mystic River basin, crest-stage partial- record station in	314	Pendleton Hill Brook near Clarks Falls	41
Namerick Brook near Warehouse Point	315	Pequabuck River, at Farmington	155-156
National Geodetic Vertical Datum of 1929 (NGVD), definition of.....	11	at Forestville	154
Natchaug River, at Willimantic	69	Pequonnock River at Trumbull	317
at U.S. Highway 6, at Willimantic	70-71	Pequonnock River basin, crest-stage partial- record station in	317
National stream-quality accounting network ..	21	Percent composition, definition of	12
Natural substrate, definition of	16	Periphyton, definition of	12
Naugatuck, Hop Brook near	295	Pesticides, definition of	12
Naugatuck River, at Ansonia	299-300	Pesticide program	21
at Beacon Falls	296-298	pH, definition of	12
at Thomaston	293	Phytoplankton, definition of	13
near Thomaston	291-292	Picocurie, definition of	12
East Branch, at Torrington	290	Piper Brook at Newington Junction	315
West Branch, at Torrington	289	Pitch Reservoir near Thomaston	302-303
Neck River near Madison	216	Plainfield, ground-water levels in	354
Nepaug, Nepaug River near	315	Plankton, definition of	13
Nepaug Reservoir near Collinsville	214-215	Podunk River, near Burnham.....	168
Nepaug River near Nepaug	315	at South Windsor	166
New Hartford, East Branch (Farmington River) Reservoir at	214-215	near South Windsor	167
New Haven, ground-water levels in	343-344	Polychlorinated biphenyls, definition of ...	13
New Haven Harbor near	226	Pomfret, Wappoquia Brook near	314
quality of ground-water records in	357-361	Pomfret Landing, Quinebaug River at	94-95
New Haven County, ground-water levels in.....	341-351, 357-361	Pomperaug, Pomperaug River at	319-327
quality of ground-water records in.....	356	Pomperaug River, at Pomperaug	319-327
New Haven Harbor near New Haven Haven	226	at South Britain	319-327
Newington, Mill Brook at.....	315	at Southbury	270-272
Newington Junction, Piper Brook at	315	near Southbury	319-327
		Pootatuck River, at Sandy Hook	316
		Poquonock River near Groton	54
		Poquonock River basin, gaging station record in	54

Porter Brook near Manchester	176-186	South Windham, Shetucket River at	73-78
Primary productivity, definition of	13	South Windsor, ground-water levels in	334
Publications on techniques of water-resources investigations	35-36	Podunk River at	166
Putnam, Quinebaug River at	91-92	Podunk River near	167
Quality of ground-water records	356-361	Special networks and programs	21
Quinebaug, Quinebaug River at	87	Specific conductance, definition of	15
Quinebaug River, near Dudley, MA	80-86	Staffordville, Roaring Brook near	314
at Jewett City	96-106	Staffordville Reservoir at	118
at Pomfret Landing	94-95	Staffordville Reservoir at Staffordville	118
at Putnam	91-92	Stage-discharge relation, definition of	15
at Quinebaug	87	Stamford, Rippowam River near	312
at Taftville	107-109	Stamford Harbor at	313
at West Thompson	88	Stamford Hurricane Barrier at	311
Quinnipiac River, near Meriden	217-218	Stamford Harbor at Stamford	313
at North Haven	222-223	Stamford Hurricane Barrier at Stamford	311
at Wallingford	219-221	Stevenson, Housatonic River at	276-288
Quinnipiac River basin, gaging station records in	217-223	Zoar, Lake, at	275,302-303
reservoirs in	224	Still River (tributary to Farmington River), at Riverton	141-142
Radiochemical program	21	at Robertsville	140
Radiochemical analyses	120	Still River (tributary to Housatonic River), at Brookfield Center	254-255
Rainbow, Farmington River at	165	at Lanesville	316
Farmington River, at Rainbow Fishway, at	161-164	Stonington, ground-water levels in	352-353
Recoverable from bottom material, definition of	7	Stony Brook near West Suffield	315
Redding, Saugatuck River near	307-309	Stratford, Housatonic River at	301
Reservoirs, See Lakes and reservoirs.		Stratton Brook near Simsbury	315
Riverside, Zoar, Lake, at	273-274	Streamflow, definition of	15
Riversville, Byram River, East Branch at	317	Substrate, definition of	16
Riverton, Colebrook River Lake near	214-215	Sucker Brook Reservoir near Winsted	214-215
Farmington River, West Branch, at	137-139	Surface area, definition of	16
Still River at	141-142	Surficial bed material, definition of	16
West Branch (Farmington River) Reservoir near	214-215	Suspended, definition of	16
Rippowam River near Stamford	312	Suspended, recoverable, definition of	16
Rippowam River basin, gaging station record in	312	Suspended sediment, definition of	14
Roaring Brook, near Staffordville	314	Suspended-sediment concentration, definition of	14
at Unionville	315	Suspended-sediment discharge, definition of	15
Robertsville, Still River at	140	Suspended-sediment load, definition of	15
Rockfall, Coginchaug River at	191	Suspended, total, definition of	17
Roxbury, Shepaug River near	259-265, 316	Taftville, Quinebaug River at	107-109
Roxbury Falls, Jacks Brook near	316	Tariffville, Farmington River at	158-160
Rooster River at Fairfield	304	Taxonomy, definition of	17
Rooster River basin, gaging station record in	304	Tennile River near Gaylordsville	247
Runoff in inches, definition of	14	Terryville, Hancock Brook near	317
Safford Brook near Woodstock Valley	67	Thames River near Mohegan	115-117
Salem, ground-water levels in	352	Thames River basin, crest-stage partial-record stations in	314-315
Salmon Creek at Lime Rock	245	gaging station records in	55-117
Salmon River near East Hampton	206-210	reservoirs in	118
Sandy Hook, Pootatuck River at	316	Thomaston, Black Rock Lake near	303
Sasco Brook near Southport	306	Branch Brook near	294
Sasco Brook basin, gaging station record in	306	Morris Reservoir near	302-303
Saugatuck River, near Redding	307-309	Naugatuck River at	293
Saugatuck River, basin, gaging station record in	307-309	Naugatuck River near	291-292
Scantic River at Broad Brook	133-136, 315	Northfield Brook Lake at	302-303
Scotland, Merrick Brook near	314	Pitch Reservoir near	302-303
Sediment, explanation of water-quality records	30-31	Thomaston Reservoir near	302-303
Sediment, definition of	14	Wigwam Reservoir near	273-274
Shepaug Reservoir at Woodville	302-303	Thomaston Reservoir near Thomaston	302-303
Shepaug River near Roxbury	259-265, 316	Thompsonville, Connecticut River at	123-132
Shetucket River, at South Windham	73-78	Time-weighted average, definition of	18
near Willimantic	72	Tolland County, ground-water level in	353
Simsbury, Stratton Brook near	315	quality of ground-water records in	337-340, 354-358
Solute, definition of	15	Tons per acre-foot, definition of	18
Somers, Gillette Brook at	315	Tons per day, definition of	18
Southbridge, MA, Westville Lake, near	118	Torrington, East Branch (Naugatuck River) Detention Reservoir near	302-303
South Britain, Pomperaug River at	319-327	ground-water levels in	334
Southbury, ground-water levels in	346-349	Hall Meadow Brook Detention Reservoir near	302-303
Pomperaug River at	270-272	Naugatuck River, East Branch, at	299
Pomperaug River near	319-327	Naugatuck River, West Branch at	289
quality of ground-water records in	356, 357-361	Total (as used in tables of chemical analyses)	18
Southington, ground-water levels in	331-333	Total, definition of	18
Southport, Sasco Brook near	306	Total, in bottom material, definition of	7
South Wilton, Norwalk River at	310	Total load, definition of	18
		Total organic carbon (TOC), definition of	19
		Total organism count, definition of	11

Total, recoverable, definition of.....	18	Westerly, R.I., Pawcatuck River at	42-53
Total sediment discharge, definition of	15	Wet mass, definition of	7
Tritium network	21	Whigville, Whigville Reservoir at	214-215
Trumbull, Pequonnock River at	317	Whigville Reservoir at Whigville	214-215
Union City, Hop Brook Lake near	303	Wigwam Reservoir near Thomaston	302-303
Unionville, Farmington River at147-148,149-153		Willimantic, Natchaug River at	69,70-71
Roaring Brook at	315	Shetucket River near	72
Wallingford, ground-water levels in	350-351	Willimantic River, at Merrow	55-61
Quinnipiac River at	219-221	near Coventry.....	62-67
Wappoquia Brook near Pomfret	314	Winchester, Winchester, Lake, at	302-303
Warehouse Point, Namerick Brook near	315	Winchester, Lake, at Winchester	302-303
Warrenville, Mount Hope River near	68	Windham County, ground-water levels in	354
Water analysis, explanation of water-quality		Winsted, Highland Lake at	214-215
records	29-30	Mad River Detention Reservoir near	214-215
Waterbury, ground-water levels in	349	Sucker Brook Reservoir near	214-215
Water-quality criteria	31-33	Wolcott, Wolcott Reservoir near	224
Water temperature, explanation of water-		Wolcott Reservoir near Wolcott	224
quality records	30	Woodbury, ground-water levels in	334-340
Weekeepeemee River near Hotchkissville	268-269	Nonewaug River at	319-327
Weighted average, definition of	19	quality of ground-water records in	355,357-361
Wepawaug River at Milford	316	Wood Creek near Bethlehem	316
Wepawaug River basin, crest-stage partial-		Woodstock, Muddy Brook near	93
record stations in	316	Woodstock Valley, Safford Brook near	67
West Branch (Farmington River) Reservoir		Woodville, Cairns Reservoir near	302-303
near Riverton	214-215	Shepaug Reservoir at	302-303
West Hartland, Hubbard River near	143	WRD, definition of	19
West Suffield, Stony Brook near	315	WSP, definition of	19
West Thompson, Quinebaug River at	88	Yantic, Yantic River at	110-114
West Thompson Lake at	118	Yantic River at Yantic	110-114
West Thompson Lake at West Thompson	118	Zoar, Lake, at Riverside	273-274
Westville Lake near Southbridge, MA	118	at Stevenson	275,302-303
West Willington, Conat Brook at	314	Zooplankton, definition of	13

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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