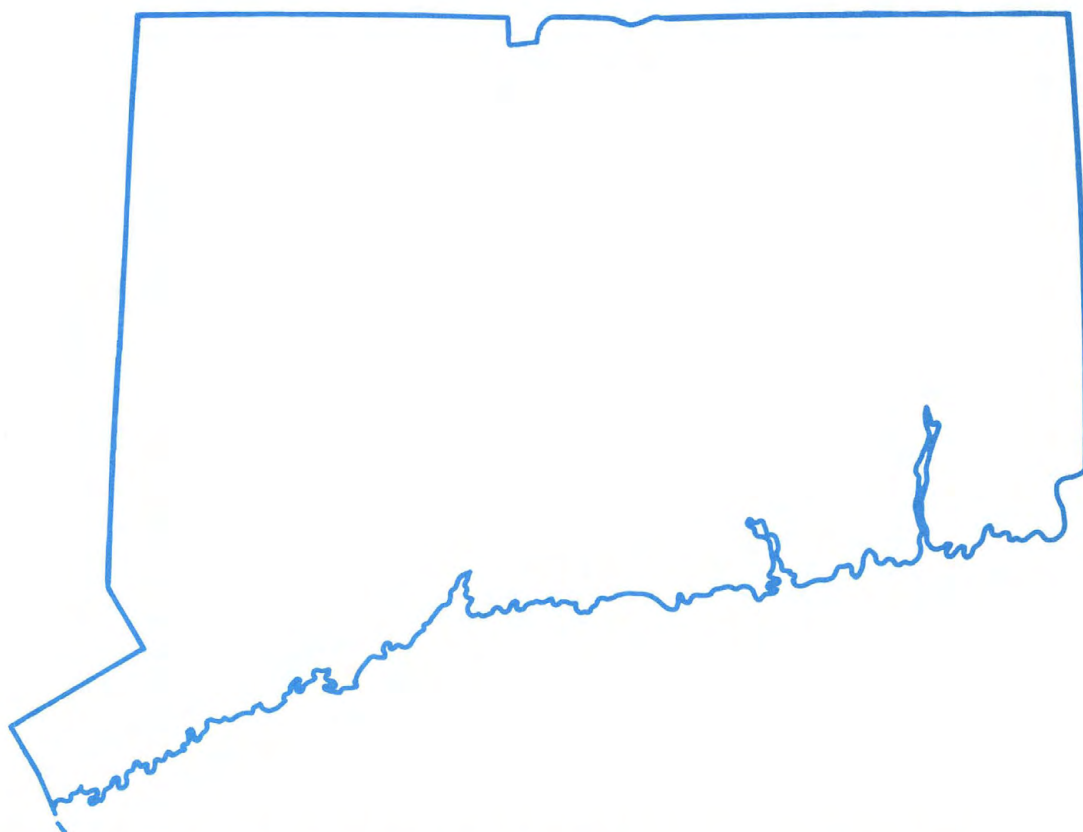
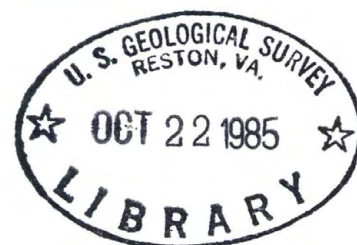


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Water Resources Data Connecticut Water Year 1983



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-83-1
Prepared in cooperation with State of Connecticut
and with other agencies

CALENDAR FOR WATER YEAR 1983

1982

OCTOBER

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United States Department of the Interior

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

450 Main Street, Rm 525

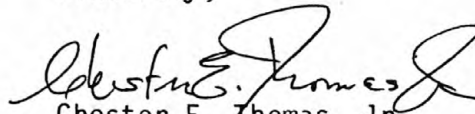
Hartford, Conn. 06103

I am pleased to announce the release of our annual report, "Water Resources Data, Connecticut, Water Year 1983." This report was prepared by the U.S. Geological Survey in cooperation with the State of Connecticut and several local and federal government agencies.

The report contains records of stream discharge and water-quality measurements, elevations of lakes and reservoirs, major water-supply diversions, and tidal elevations. Also included are records of precipitation quality, records of sediment concentrations and particle sizes, and records of ground-water quality and ground-water levels.

Copies of this report are for sale through the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. When ordering, refer to U.S. Geological Survey Water-Data Report CT-83-1. For further information on this report, please notify me at the above address or telephone FTS 244-2528, 203-722-2528.

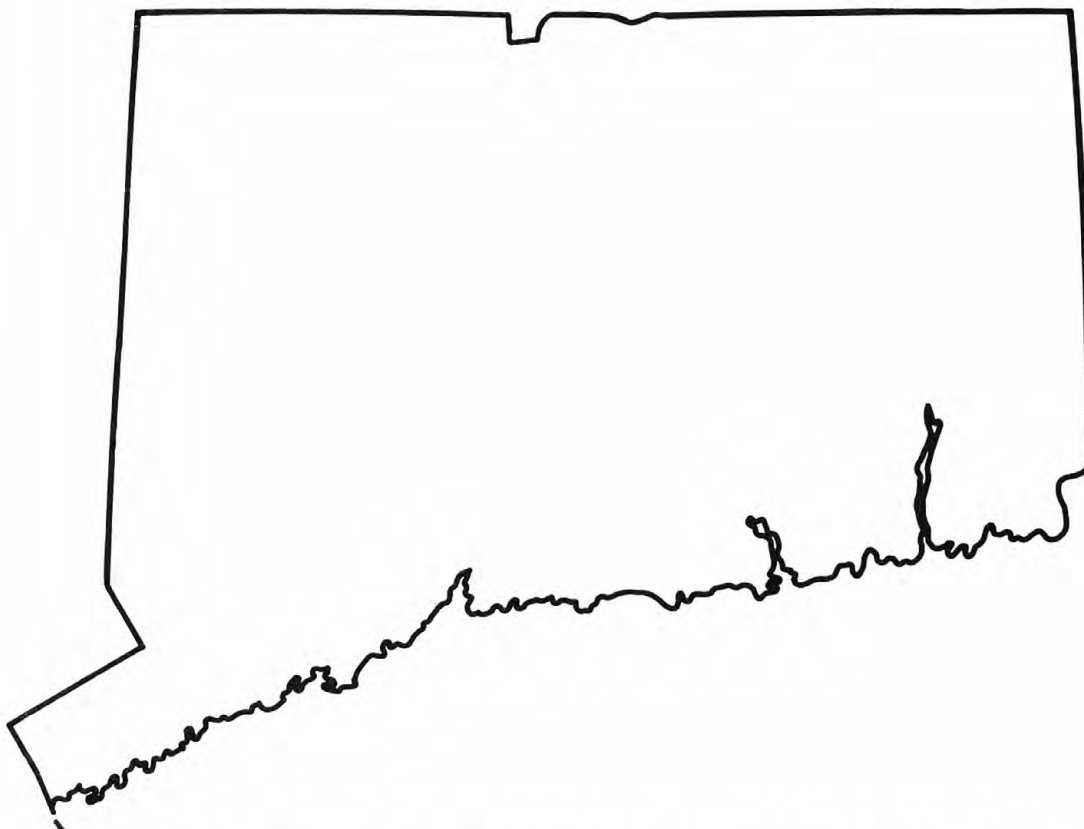
Sincerely,


Chester E. Thomas, Jr.
Chief, Connecticut Office
New England District



Water Resources Data Connecticut Water Year 1983

by C.E. Thomas, Jr., L.A. Weiss, I.S. Gasperini, and J.W. Bingham



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-83-1
Prepared in cooperation with State of Connecticut
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Connecticut write to

Connecticut Office Chief, Water Resources Division
U.S. Geological Survey
450 Main Street, Room 525
Hartford, Connecticut 06103

1985

PREFACE

This volume of the annual hydrologic data report for Connecticut is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Connecticut are contained in 1 volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

M. A. Cervione, Jr.	D. F. Healy	E. M. Scarbrough
J. M. Czacotka	C. H. Keune	T. B. Shepard
B. S. Davies, III	K. P. Kulp	
E. E. Gillespie	G. P. Rigatti	

J. M. Bialy coordinated the word processing and publishing phases of the report.

This report was prepared in cooperation with the State of Connecticut and with other agencies under the general supervision of Chester E. Thomas, Jr., Chief, Connecticut Office, and I. C. James, II, District Chief, New England.

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4. Title and Subtitle Water Resources Data, Connecticut, Water Year 1983		5. Report Date July 1985	
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7. Author(s) C.E. Thomas, Jr., L.A. Weiss, I.S. Gasperini, and J.W. Bingham		8. Performing Organization Rept. No.	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 450 Main Street, Room 525 Hartford, Connecticut 06103		10. Project/Task/Work Unit No.	
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12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 450 Main Street, Room 525 Hartford, Connecticut 06103		13. Type of Report & Period Covered Annual Oct. 1, 1982 to Sept. 30, 1983	
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15. Supplementary Notes Prepared in cooperation with the State of Connecticut and with other agencies.			
16. Abstract (Limit: 200 words) Water Resources Data for the 1983 water year for Connecticut consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 47 gaging stations; storm discharge at 7 gaging stations; tidal volume at 1 gaging station; tidal stage at 4 gaging stations; contents at 35 lakes and reservoirs; water quality at 38 gaging stations, 4 lakes and reservoirs, 2 harbors, 3 precipitation stations, 6 partial-record stations, and 23 wells; and water levels at 32 observation wells. Also included are 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 involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. 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.			
17. Document Analysis a. Descriptors *Connecticut, *Hydrologic data, *Surface water, *Ground water, *Water quality, Streamflow, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Biological analyses, Water temperatures, Sampling sites, Water levels, Water analyses, Estuary. b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
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Letter after station name designates types of data:

(d) discharge, (e) elevation, stage, or contents,
 (v) tidal volume, (c) chemical, (m) microbiological,
 (t) water temperature, (s) sediment, (r) rainfall,
 (ds) storm discharge

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WATER RESOURCES DATA, CONNECTICUT, 1983

INTRODUCTION

Water resources data for the 1983 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 volume contains records for water discharge at 47 gaging stations; storm discharge at 7 gaging stations; tidal volume at 1 gaging station; storm rainfall at 6 gaging stations; stage only records at 4 tidal-gaging stations; contents at 35 lakes and reservoirs; water quality at 38 gaging stations, 4 lakes and reservoirs, 2 harbors, 3 precipitation station, 6 partial record stations, and 10 wells; and water levels at 59 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 analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in Connecticut.

Records of discharge and 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, 604 South Pickett Street, Alexandria, Virginia, 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 and ground-water data since water year 1971 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 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 volume is identified as "U.S. Geological Survey Water Data Report CT-83-1." 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 Connecticut Office Chief at the address given on the back of the title page or by telephone (203) 722-2528.

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, J. William Burns, Commissioner.
Town of Enfield, Department of Public Works, Roger J. Mullins, Director.
Town of Fairfield, Conservation Commission, Thomas J. Steinke, Director.
Town of Manchester, Department of Public Works, George A. Kandra, Director.
Town of Meriden, Department of Public Works, J. Bruce Marks, Director.
City of New Britain, Board of Water Commissioners, John A. McManus, Director.
City of New Britain, City Improvement Commission, James F. Dawson, Chairman.
Northeast Connecticut Regional Planning Agency, John K. Harris, Chairman.
City of Norwalk, Department of Public Works, Dominick DiGangi, Director.
Town of Ridgefield, Elizabeth M. Leonard, First Selectman.
Town of Simsbury, Margaret C. Shanks, First Selectman.
South Central Connecticut Regional Water Authority, George E. Block, Jr.,
Director of Engineering
Town of Stonington, James M. Spellman, First Selectman.
City of Torrington, Department of Public Works, Richard D. Cosgrove, Acting Director.

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army, in collecting records for 14 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.

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff for the 1983 water year was in the upper part of the normal range at Mount Hope River near Warrenville index station, in the northeastern part of the State; runoff was in the excessive range (in the upper quartile of record) at the Salmon River near East Hampton, Burlington Brook near Burlington, and Pomperaug River at Southbury index stations, in the eastern, western, and southwestern parts of the state, respectively. The monthly means at all four locations for March through June were in the upper quartile, and the mean and maximum daily flows for March at Burlington Brook and the mean flow for April at all four index stations were the largest of record (table 1). In general, only the months of December and September had mean flows in the lower quartile at all the index stations, and September mean flow was the sixth lowest of record.

The water year began with normal runoff in October. Runoff declined to below normal in December. Heavy precipitation in January through March created highly saturated soil conditions in the State and the record high rainfall for April established the new maximum monthly flows for the month. Precipitation at 11 of the 12 precipitation index stations (table 2) were the maximum of record. The monthly medians for precipitation were exceeded January through May for 9 of the 12 index stations and for all of the stations for March through May.

Storage in the 16 municipal reservoirs of Hartford, Waterbury, Bridgeport, and Stamford averaged 83 percent of capacity at the beginning of the water year. Storage decreased to 78 percent in December, increased to 100 percent in March, and remained above 95 percent through June, then gradually declined to the low of 76 percent in September, the end of the water year.

Ground-water levels were mostly in the normal range at the beginning of the water year, but continued to decline seasonally to below average conditions in half the wells by the end of October. This seasonal decline continued through November and December. From January through April, the water levels rose faster than the normal seasonal rise due to above-average precipitation; the entire State had water levels in the high range during March and April when many record high levels were reached (table 3). Beginning in May, ground-water levels began to decline seasonally, but faster than normal, so that by September, levels were in the low and normal ranges.

Table 1.--Monthly discharges for index stations for the 1983 water year in Connecticut
[Discharge in cubic feet per second]

3

	Station number and location <u>a/</u>											
	01121000 Mount Hope River near Warrenville			01188000 Burlington Brook near Burlington			01193500 Salmon River near East Hampton			01204000 Pomperaug River at Southbury		
	Monthly	Maximum daily	Median 1951-80	Monthly	Maximum daily	Median 1951-80	Monthly	Maximum daily	Median 1951-80	Monthly	Maximum daily	Median 1951-80
October	21.2	165	17.4	2.48	8.0	3.29	45.2	138	62.8	21.5	58	36.6
November	46.1	205	38.7	4.86	20	7.62	131	425	119	49.9	266	96.2
December	35.0	88	61.8	4.57	15	6.08	121	337	199	56.9	142	163
January	76.8	426	56.1	9.97	86	8.54	281	1220	215	174	988	114
February	103	491	64.4	12.8	128	7.88	342	1350	235	261	1260	154
March	150	358	103	39.4 <u>b/</u>	375 <u>b/</u>	16.1	585	2020	377	497	2160	254
April	197 <u>b/</u>	607	94.5	38.8 <u>b/</u>	116	16.0	803 <u>b/</u>	2590 <u>b/</u>	347	580 <u>b/</u>	1650	243
May	82.5	211	58.7	13.2	35	9.45	311	761	227	204	384	146
June	45.9	185	22.6	8.05	32	4.14	160	546	83.8	120 0	466	54.7
July	6.24	18	12.3	2.79	6.5	2.72	35.8	95	44.4	31.1	101	34.9
August	4.61	13	9.35	1.67	4.6	2.22	17.4	62	29.9	20.8	42	30.2
September	6.08	22	9.09	1.00	5.5	2.52	10.4	29	36.9	11.1	23	28.8

a/ See figure 2 for station locations

b/ Maximum of record

Table 2.--Precipitation for April 1983 and the 1983 water year
for index stations in Connecticut

[Data from the National Weather Service; precipitation in inches]

Station	Precipitation, April 1983	Departure from monthly median ^{1/}	Cumulative precipitation, 1983 water year
Bridgeport	10.72 ^{2/}	7.19	46.72
Cocaponset	12.84 ^{2/}	8.70	56.37
Groton	10.38 ^{2/}	6.50	51.74
Hartford WSO AP	9.90 ^{2/}	6.02	47.20
Hartford Brainard	9.99	6.26	45.06
Mansfield Hollow Dam	11.35 ^{2/}	7.59	52.38
Mount Carmel	14.44 ^{2/}	10.40	58.70
Norfolk	10.79 ^{2/}	6.21	55.71
Putnam Lake	11.97 ^{2/}	8.13	51.02
Shepaug Dam	9.65 ^{2/}	5.38	50.56
Stevenson Dam	13.89 ^{2/}	9.69	58.05
Storrs	9.94 ^{2/}	5.99	51.86

^{1/} Median values have been computed for period 1951-80.

^{2/} Maximum of record

Table 3.--Ground-water levels for April 1983 and their relation to previous
April maximums for selected long-term observation wells in
Connecticut

Water levels in feet below land surface datum

Observation Well Number ^{a/}			
	April 18-16, 1983	Previous Maximum	Date of previous maximum
BD 8	26.33	27.01	04-20-70
BK 41	3.81	5.06	04-21-69
GT 19	9.47	9.98	04-06-70
MF 1	2.59	3.12	04-03-51
MS 19	7.85	9.3	04-29-60
MT 261	17.16	18.32	04-05-56
NOC 7	8.15	8.4	04-29-64
NT 15	0.7	1.95	04-24-74
SW 64	7.12	7.77	04-13-36
T 2	5.1	5.12	04-04-60
WB 93	23.61	23.99	04-01-53
WB 198	5.79	6.09	04-01-53
WY 1	18.7	19.41	04-24-80

^{a/} See figure 4 for location of observation wells

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.

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°C ± 0.2°C on MFC 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°C ± 1.0°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 microorganisms, 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/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

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.

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 total 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.

Organic carbon (OC) is a measure of the organic matter present in aqueous solution and(or) suspension. May be reported in any of these categories: DOC, dissolved organic carbon; SOC, suspended organic carbon; TOC, total organic carbon.

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.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

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 $\text{mg C}/(\text{m}^3 \cdot \text{time})$ 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 $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ 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.....Hexageria
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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation 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 and miscellaneous site 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, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all 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, one or two digits may be added (making a 9- or 10-digit station number), and(or) a latitude-longitude number was used for identification.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells, precipitation stations, and some 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.

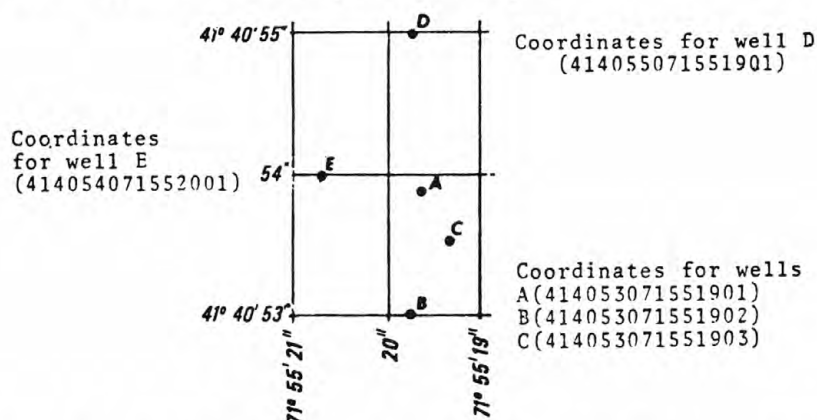


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude).

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 Papers 888, 2175, 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-backwater 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 reservoirs 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 general 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. Period 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, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS".

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS". For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS".

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion and if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the means for the daily discharges during the calendar and water years.

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

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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

Accuracy of Field Data and Computed Results

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s to whole numbers between 10 and 1,000 ft³/s and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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

Other Data Available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

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

Water-quality records collected at a surface-water, daily record station are published immediately following that record, regardless of the frequency of sampling collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appears next. The table of ground-water quality follows ground-water level records. Data for quality of ground water is listed alphabetically by County, then town, and is identified by local well number.

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

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

Water Analysis

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

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

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

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

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Remark Codes for Water-Quality Data

PRINTED OUTPUT	REMARK
K	RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)
*	MEAN DAILY DISCHARGE
<	ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN.

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.

WATER QUALITY CRITERIA

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

WATER QUALITY CRITERIA

Parameter name	Limiting value	Units	Use	Basis for selection
Organics - continued				
Endrin	0.004	ug/L	2,8	A
	0.2	ug/L	4,6	B
Guthion	0.01	ug/L	2,8	A
Heptachlor	0.001	ug/L	2,8	A
Lindane	0.004	ug/L	8	A
	0.01	ug/L	2	A
	4	ug/L	4,6	A,B
Malathion	0.1	ug/L	2,8	A
MBAS (foaming agents)	0.5	mg/L	6a	C
Methoxychlor	0.03	ug/L	2,8	A
	100	ug/L	4,6	A,B
Mirex	0.001	ug/L	2,8	A
Parathion	0.04	ug/L	2,8	A
PCB	0.001	ug/L	2,8	A
Phenols	1.0	ug/L	4	A
Toxaphene	0.005	ug/L	2,8	A
	5.0	ug/L	4,6	A,B
Silvex	10	ug/L	4,6	A,B
2,4-D	100	ug/L	4,6	A,B
Radiochemicals				
Radium 226	5	pCi/L	4,6	B
Strontium 90	8	pCi/L	4,6	B
Tritium	20,000	pCi/L	4,6	B
Gross alpha	15	pCi/L	4,6	B

* 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
6. Potable drinking water, based on health effects
- 6a. Potable drinking water, based on aesthetic considerations
7. Primary contact
8. Marine aquatic life

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. 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

Ground-water level data from a basic network of observation wells and projects are published herein. The 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 (1sd). 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).

ACCESS TO WATSTORE DATA

The National WATER Data STORAGE and RETRIEVAL System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

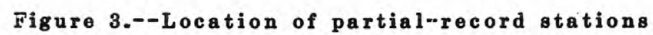
Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into 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, 604 South Pickett St., Alexandria, VA 22304 (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-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 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.
- 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. Greeson, T. A. Ehle, 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. I. 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.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 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



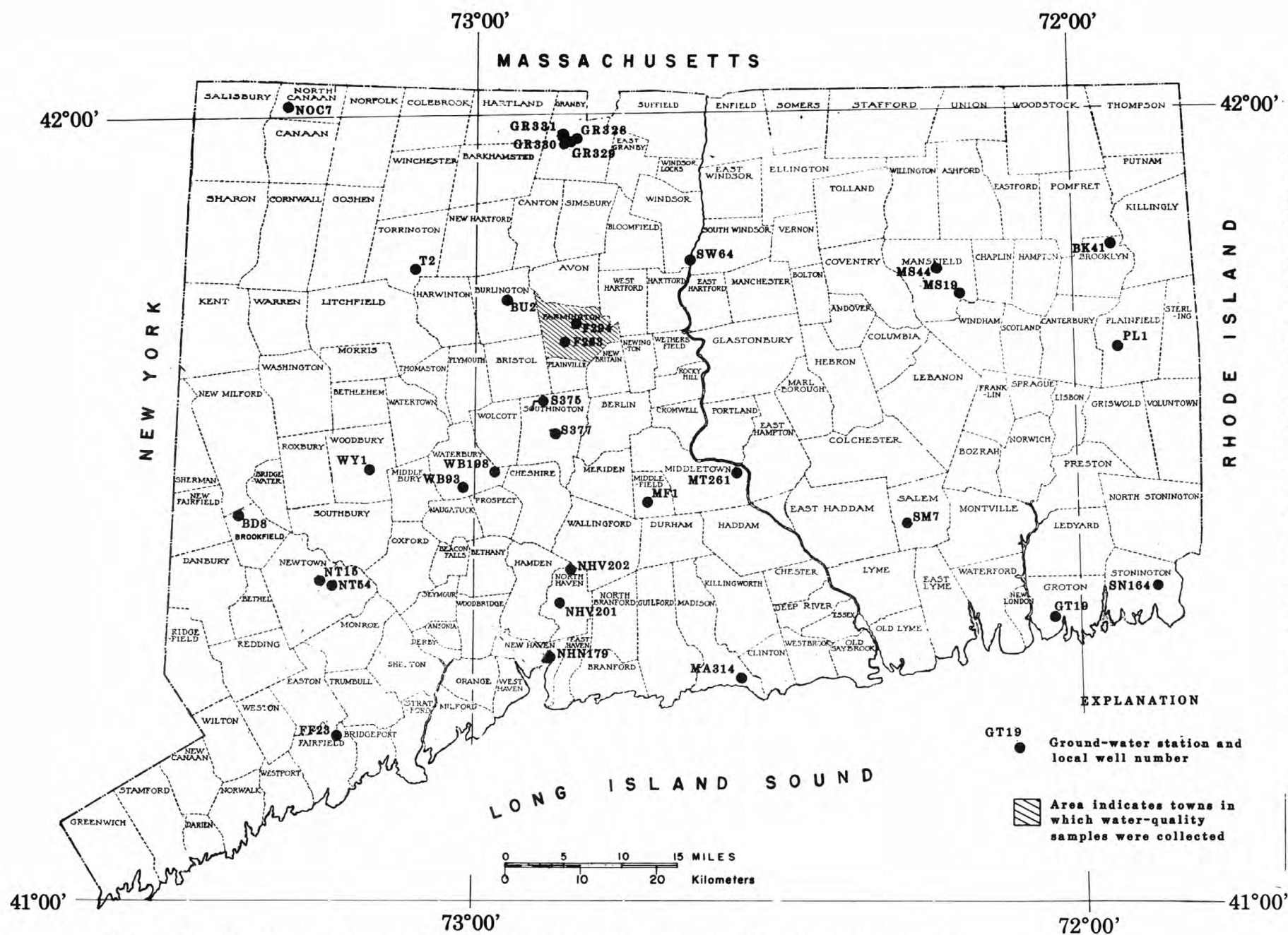


Figure 4.--Location of observation wells and ground water quality sampling areas

SURFACE-WATER RECORDS

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PAWCATUCK RIVER BASIN

01118300 PENDLETON HILL BROOK NEAR CLARKS FALLS, CT

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

DRAINAGE AREA.--4.02 mi² (10.41 km²).

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

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

REMARKS.--Records good. Release from Hetchel Swamp above Lake Road caused by cleaning of debris from culvert.

AVERAGE DISCHARGE.--25 years, 8.63 ft³/s (0.244 m³/s), 29.15 in/yr (740 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 565 ft³/s (16.0 m³/s) June 5, 1982, gage height, 6.73 ft (2.051 m); minimum, 0.01 ft³/s (<0.001 m³/s) Sept. 9-17, 1980, gage height, 0.62 ft (0.189 m).

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	0030	*460 13.0	*6.25 1.905
19	1930	360 10.2	5.67 1.728
24	2030	410 11.6	6.00 1.828

Minimum discharge, 0.02 ft³/s (0.001 m³/s) Sept. 16, 17, gage height, 0.67 ft (0.204 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.1	8.3	6.4	13	13	15	17	16	8.3	.57	2.1
2	.84	2.1	7.0	5.8	11	22	14	16	11	6.8	1.9	1.2
3	.77	2.4	6.4	5.6	30	18	20	16	9.0	5.6	1.0	.70
4	.70	4.2	6.0	5.1	30	14	24	19	25	4.4	.63	.46
5	.70	8.3	5.6	4.9	19	13	18	18	21	4.2	.63	.35
6	.63	6.4	8.3	7.4	14	12	14	14	14	8.3	.63	.27
7	.70	4.5	8.8	7.4	13	15	13	13	11	6.0	1.0	.23
8	2.1	3.7	7.0	6.4	13	17	18	12	9.2	4.5	.70	.15
9	7.0	3.2	6.2	5.8	11	32	37	11	8.1	3.7	.57	.10
10	4.7	2.8	5.4	5.4	10	25	91	10	7.2	3.0	.46	.10
11	3.4	2.6	5.3	15	9.0	23	187	9.8	6.6	2.6	.51	.08
12	2.8	2.6	5.2	13	8.5	32	57	9.2	6.0	2.3	8.1	5.4
13	2.6	14	5.0	9.0	8.0	25	38	9.0	5.3	2.1	6.2	13
14	2.7	13	4.9	7.2	7.5	19	29	8.5	5.8	1.7	3.4	13
15	2.4	10	5.1	6.0	7.3	16	25	9.5	7.6	1.5	2.1	13
16	2.2	8.5	11	5.7	7.0	14	24	14	7.0	1.4	1.4	7.2
17	2.0	6.8	15	5.5	23	13	45	18	6.8	1.2	1.1	.04
18	1.9	5.8	10	5.2	47	13	30	12	6.8	1.1	1.3	.05
19	1.9	5.3	8.3	5.0	33	52	139	9.8	6.8	.92	1.6	.03
20	1.8	4.9	7.6	4.7	26	43	110	13	6.2	2.0	1.0	.03
21	1.9	4.5	7.2	4.5	22	41	50	15	6.2	1.4	.57	.03
22	1.9	4.4	6.8	4.5	20	54	37	11	4.9	1.3	.40	.51
23	1.8	4.2	6.4	10	22	33	29	12	4.0	.84	.35	.15
24	1.7	4.2	8.1	39	23	25	134	10	3.4	3.2	.30	.06
25	2.0	4.0	9.5	25	19	20	110	8.8	3.0	3.1	.23	.04
26	3.7	3.9	8.8	17	16	17	43	7.8	2.6	2.1	.19	.03
27	3.1	3.7	7.6	13	14	16	30	11	4.5	1.6	.23	.03
28	2.7	3.5	7.0	11	13	47	25	14	19	1.2	.27	.03
29	2.6	14	7.0	10	---	31	21	10	19	1.2	.40	.02
30	2.2	12	6.8	9.5	---	21	18	13	12	1.0	.51	.02
31	2.2	---	6.4	14	---	17	---	23	---	.77	.51	---
TOTAL	68.74	171.6	228.0	294.0	489.3	753	1445	394.4	275.0	89.33	38.76	58.41
MEAN	2.22	5.72	7.35	9.48	17.5	24.3	48.2	12.7	9.17	2.88	1.25	1.95
MAX	7.0	14	15	39	47	54	187	23	25	8.3	8.1	13
MIN	.63	2.1	4.9	4.5	7.0	12	13	7.8	2.6	.77	.19	.02
CFSM	.55	1.42	1.83	2.36	4.35	6.05	12.0	3.16	2.28	.72	.31	† .06
IN.	.64	1.59	2.11	2.72	4.53	6.97	13.37	3.65	2.54	.83	.36	† .07

CAL YR 1982 TOTAL 3917.31 MEAN 10.7 MAX 395 MIN .60 CFSM 2.66 IN 36.24
WTR YR 1983 TOTAL 4305.54 †MEAN 11.7 MAX 187 MIN .02 †CFSM 2.91 †IN 39.36

† Adjusted for release from Hetchel Swamp.

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI
(National stream-quality accounting network station)

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

DRAINAGE AREA.--295 mi².

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 below National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Diurnal fluctuation at low flow prior to 1962 by mills upstream; regulation much greater prior to 1958. Diversion upstream for municipal supply of Westerly.

AVERAGE DISCHARGE.--42 years (water years 1942-83), 576 ft³/s, 26.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,070 ft³/s June 6, 1982, gage height, 12.86 ft; minimum daily, 25 ft³/s Aug. 17, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a discharge of 3,150 ft³/s, by computation of flow over dam 1.5 mi 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 Sept. 21, 1938, due to hurricane tidal wave.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,340 ft³/s Apr. 25, gage height, 9.78 ft; minimum daily, 147 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	220	572	477	838	1020	1350	2080	1150	633	263	217
2	185	205	531	467	825	1070	1250	1880	1150	567	260	214
3	191	205	504	461	892	1150	1200	1730	1080	505	260	207
4	191	214	472	446	1060	1190	1350	1660	1110	464	252	198
5	177	233	456	431	1090	1190	1450	1620	1200	426	249	192
6	169	274	456	446	1030	1130	1350	1520	1170	476	241	189
7	161	340	526	498	963	1080	1200	1410	1080	476	245	189
8	164	349	531	498	934	1130	1150	1300	1020	447	241	183
9	196	320	504	488	892	1460	1400	1220	901	405	238	180
10	289	300	472	461	825	1650	2000	1160	831	385	231	177
11	336	285	451	509	733	1690	3200	1090	780	365	227	180
12	312	278	446	613	719	1810	3730	1060	740	361	287	177
13	282	336	436	631	700	1960	3470	1010	696	347	342	171
14	260	482	389	607	687	1890	3170	979	654	338	324	171
15	250	531	402	578	700	1800	2830	971	633	329	299	168
16	257	543	441	631	713	1550	2430	1030	607	324	275	168
17	253	509	566	625	773	1400	2480	1200	587	316	252	174
18	233	467	613	572	1300	1250	2420	1240	567	312	245	180
19	208	426	607	467	1560	1450	2690	1160	548	303	241	174
20	188	402	584	467	1480	1700	3880	1090	535	320	238	168
21	177	380	549	456	1410	2000	3730	1100	511	316	231	163
22	172	375	526	407	1320	2200	3330	1090	493	307	217	174
23	172	362	504	467	1220	2400	2990	1080	464	303	211	174
24	182	357	498	1010	1250	2200	3020	1060	447	316	207	171
25	188	357	526	1230	1230	1900	4200	1020	421	329	204	168
26	180	349	543	1180	1180	1700	4060	953	410	312	201	163
27	185	340	543	1080	1110	1500	3810	918	400	303	198	157
28	188	332	531	985	1020	1600	3510	962	476	291	204	155
29	194	436	520	892	---	1700	3070	953	696	283	207	152
30	202	578	509	819	---	1650	2380	927	733	275	211	147
31	220	---	493	819	---	1500	---	1020	---	267	214	---
TOTAL	6550	10785	15701	19718	28454	48920	78100	37493	22090	11401	7515	5301
MEAN	211	360	506	636	1016	1578	2603	1209	736	368	242	177
MAX	336	578	613	1230	1560	2400	4200	2080	1200	633	342	217
MIN	161	205	389	407	687	1020	1150	918	400	267	198	147
CFSM	.72	1.22	1.72	2.16	3.44	5.35	8.82	4.10	2.50	1.25	.82	.60
IN.	.83	1.36	1.98	2.49	3.59	6.17	9.85	4.73	2.79	1.44	.95	.67
CAL YR 1982	TOTAL	283424	MEAN 777	MAX 6220	MIN 161	CFSM 2.63	IN 35.74					
WTR YR 1983	TOTAL	292028	MEAN 800	MAX 4200	MIN 147	CFSM 2.71	IN 36.83					

PAWCATUCK RIVER BASIN

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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. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 255 micromhos September 15, 1981; minimum, 27 micromhos June 7, 1982.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 177 micromhos Aug. 7; minimum, 50 micromhos Apr. 11.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 5; minimum, 0.0°C on many days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT												
19...	1430	202	124	7.2	16.0	11.5	--	1.0	11.3	102	--	--
NOV												
18...	1030	467	96	6.6	10.5	5.5	--	1.6	12.5	98	--	1.0
DEC												
17...	1215	566	108	7.0	4.5	3.0	--	1.2	13.5	100	33	--
JAN												
18...	1100	602	105	6.8	-2.5	0.5	--	1.8	14.7	102	--	1.0
FEB												
22...	1300	1310	78	6.1	10.0	2.0	--	0.7	14.0	101	--	--
MAR												
04...	1130	1190	69	6.2	5.0	5.0	35	0.5	12.6	98	22	1.0
APR												
12...	1015	3750	66	6.4	14.0	9.0	--	0.9	10.5	91	--	--
MAY												
19...	1140	1150	80	6.8	17.0	13.0	--	0.5	10.2	94	--	1.0
JUN												
16...	0930	607	93	6.7	27.0	22.0	--	1.3	8.7	99	<10	--
JUL												
14...	0900	338	97	6.7	28.0	22.5	--	0.75	9.1	105	--	1.0
AUG												
11...	1015	224	110	6.8	21.0	23.0	--	0.5	7.8	91	--	--
SEP												
06...	1000	189	180	7.3	29.5	24.0	24	1.5	8.5	100	32	3.0

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT												
19...	100	1000	--	--	--	--	--	--	--	18	11	--
NOV												
18...	84	420	14	6	3.9	1.1	12	0.7	8.0	18	9.4	0.1
DEC												
17...	500	2700	--	--	--	--	--	--	--	14	10	--
JAN												
18...	72	110	15	6	3.9	1.2	13	1.1	9.0	17	13	<0.1
FEB												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	K18	K12	12	8	3.0	.96	6.6	0.8	4.0	11	9.8	--
APR												
12...	460	280	--	--	--	--	--	--	--	8.0	7.7	--
MAY												
19...	170	280	13	5	3.2	1.2	10	1.0	8.0	10	12	<0.1
JUN												
16...	140	1300	--	--	--	--	--	--	--	12	11	--
JUL												
14...	96	1200	20	8	5.4	1.5	11	1.2	12	19	13	0.3
AUG												
11...	88	6300	--	--	--	--	--	--	--	15	14	--
SEP												
06...	110	3800	22	0	6.2	1.7	29	1.5	26	35	10	--

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 19...	--	83	29	0.11	45.3	--	88	0.49	<0.01	0.5	--	0.02
NOV 18...	9.3	68	60	0.09	85.7	--	77	0.29	<0.01	0.3	0.23	0.09
DEC 17...	--	78	24	0.11	119	--	86	0.39	<0.01	0.4	--	0.09
JAN 18...	8.1	86	63	0.12	140	--	84	0.39	0.01	0.4	0.38	0.05
FEB 22...	--	--	--	--	--	--	--	0.19	<0.01	0.2	--	0.04
MAR 04...	--	43	35	0.06	138	3	50	0.19	<0.01	0.2	--	0.02
APR 12...	--	49	16	0.07	496	--	58	0.09	0.01	0.1	--	0.03
MAY 19...	3.1	--	46	0.06	143	--	62	0.19	<0.01	0.2	0.17	0.08
JUN 16...	--	76	23	0.1	125	4	80	0.39	<0.01	0.4	--	0.05
JUL 14...	7.2	86	66	0.12	78.5	--	61	0.59	<0.01	0.6	0.62	0.02
AUG 11...	--	85	29	0.12	51.4	--	87	0.69	<0.01	0.7	--	0.03
SEP 06...	--	111	99	0.15	56.6	5	123	0.87	0.03	0.9	--	0.09

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (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)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
OCT 19...	--	0.88	0.9	1.4	0.04	0.03	0.02	--	--	--	--
NOV 18...	0.09	0.71	0.8	1.1	0.04	0.03	--	0.02	130	--	1
DEC 17...	--	0.41	0.5	0.9	0.05	0.05	0.04	--	--	--	--
JAN 18...	0.05	0.15	0.2	0.6	0.04	0.04	0.02	0.02	100	--	1
FEB 22...	--	0.36	0.4	0.6	0.02	--	0.01	--	--	--	--
MAR 04...	--	0.28	0.3	0.5	0.02	<0.01	0.02	--	--	--	--
APR 12...	--	0.27	0.3	0.4	0.05	0.06	0.02	--	--	--	--
MAY 19...	0.03	0.52	0.6	0.8	0.03	0.02	0.01	0.02	100	--	<1
JUN 16...	--	0.35	0.4	0.8	0.05	0.05	0.05	--	--	--	--
JUL 14...	0.05	0.68	0.7	1.3	0.06	0.05	0.02	0.01	30	--	1
AUG 11...	--	0.77	0.8	1.5	0.04	0.05	0.03	--	--	--	--
SEP 06...	--	0.71	0.8	1.7	0.09	0.07	0.06	--	--	1	--

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 19...	--	--	--	--	1	--	<1	--	--	6	--
NOV 18...	<1.00	15.00	--	--	<1	--	<1	<3.00	--	1	--
DEC 17...	--	--	--	--	1	--	<1	--	--	3	--
JAN 18...	<1.00	15.00	--	--	<1	--	1	<3.00	--	4	--
FEB 22...	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	<1	--	3	--	--	1	--
APR 12...	--	--	--	--	<1	--	<1	--	--	4	--
MAY 19...	<0.05	14.00	--	--	2	--	<1	<3.00	--	6	--
JUN 16...	--	--	--	--	1	--	4	--	--	2	--
JUL 14...	<0.50	--	--	--	1	--	<1	<3.00	--	18	--
AUG 11...	--	--	--	--	2	--	<1	--	--	13	--
SEP 06...	--	--	80.00	1	1	20	<1	--	35	5	600

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)
OCT 19...	--	--	<1	--	--	--	--	--	--	--	3
NOV 18...	340	--	2	<4.00	--	30	--	<0.1	<10	--	<1
DEC 17...	--	--	7	--	--	--	--	--	--	--	1
JAN 18...	180	--	3	<4.00	--	30	--	0.2	<10	--	1
FEB 22...	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	2	--	--	--	--	--	--	--	3
APR 12...	--	--	3	--	--	--	--	--	--	--	3
MAY 19...	280	--	2	<4.00	--	28	--	0.2	<10	--	2
JUN 16...	--	--	2	--	--	--	--	--	--	--	1
JUL 14...	380	--	4	<4.00	--	30	--	0.7	<10	--	10
AUG 11...	--	--	4	--	--	--	--	--	--	--	1
SEP 06...	--	14	1	--	20	--	0.3	--	--	8.00	<1

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 19...	--	--	--	--	--	--	--	10	9.1	--	--
NOV 18...	--	<1	--	<1	24	<6.0	--	8.00	9.0	--	--
DEC 17...	--	--	--	--	--	--	--	10	6.6	--	--
JAN 18...	--	<1	--	<1	28	<6.0	--	<4.00	7.3	--	--
FEB 22...	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	10	4.7	<1	<1
APR 12...	--	--	--	--	--	--	--	10	7.7	--	--
MAY 19...	--	<1	--	<1	23	<6.0	--	<3.00	5.9	--	--
JUN 16...	--	--	--	--	--	--	--	10	6.5	--	--
JUL 14...	--	<1	--	<1	37	25	--	15	5.4	--	--
AUG 11...	--	--	--	--	--	--	--	20	4.2	--	--
SEP 06...	<1	--	<1.00	--	--	--	190	20	6.3	<1	<1

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
SEP 06...	1000	<0.1	<1	<0.1	<1.0	<0.01	<0.1	<0.1	<1.0	<0.01	<0.1	<0.01

DATE	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)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
SEP 06...	<0.1	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	<0.01

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 06...	<0.1	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	<0.1	<1.00	<1	<10

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. * FINER THAN .062 MM
NOV 18...	1030	467	12	15	57
JAN 18...	1100	602	4	6.5	100
MAY 19...	1140	1150	14	43	69
JUL 14...	0900	338	11	10	68

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	144	140	142	102	95	98	106	104	105
2	---	---	---	139	132	136	97	95	96	104	100	102
3	---	---	---	132	126	130	99	97	98	99	97	98
4	---	---	---	143	130	136	100	96	97	99	96	97
5	---	---	---	151	142	144	102	96	99	107	99	104
6	---	---	---	145	134	141	105	99	103	113	107	111
7	---	---	---	133	124	127	99	97	98	119	114	117
8	---	---	---	123	111	117	104	99	102	113	105	110
9	---	---	---	110	105	108	104	102	103	113	108	111
10	---	---	---	113	106	109	103	101	102	110	107	109
11	---	---	---	118	113	116	107	102	104	109	104	106
12	---	---	---	124	118	121	107	105	106	106	101	103
13	---	---	---	123	112	117	110	103	106	102	98	101
14	---	---	---	122	109	117	106	102	103	98	96	97
15	---	---	---	116	101	109	116	102	110	103	99	101
16	---	---	---	100	94	97	118	114	115	110	100	105
17	---	---	---	99	94	97	116	106	113	106	99	102
18	---	---	---	99	96	97	111	96	105	106	69	94
19	---	---	---	103	98	101	97	95	96	73	69	71
20	123	118	120	106	102	104	98	95	96	106	73	87
21	138	123	130	106	103	105	97	94	95	116	107	113
22	139	122	130	107	104	106	101	94	98	122	115	118
23	129	119	125	106	103	105	107	101	104	127	112	122
24	142	129	136	111	104	107	109	104	106	113	71	91
25	143	137	141	111	109	110	107	104	106	73	68	71
26	138	124	131	114	112	113	104	93	97	79	69	75
27	136	122	127	111	106	109	95	93	94	82	78	80
28	149	137	144	106	100	103	98	92	94	86	81	84
29	153	149	151	101	96	98	96	91	93	90	86	88
30	151	148	149	99	95	97	102	95	100	91	89	90
31	147	144	145	---	---	---	104	101	103	90	82	87
MONTH	153	118	136	151	94	114	118	91	101	127	68	98
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	84	80	82	84	78	81	76	71	74	61	60	61
2	86	82	84	85	73	81	76	75	75	63	61	62
3	89	80	86	72	68	70	77	74	76	64	62	63
4	77	72	74	---	---	---	74	66	68	66	64	65
5	75	70	72	---	---	---	71	67	69	67	65	66
6	84	75	80	---	---	---	75	71	73	68	66	67
7	90	84	87	---	---	---	78	74	76	70	68	69
8	90	85	88	---	---	---	78	76	78	71	69	70
9	93	82	89	---	---	---	78	64	71	73	71	72
10	113	80	91	---	---	---	66	59	64	77	73	75
11	108	73	87	---	---	---	75	50	63	78	76	77
12	104	65	84	---	---	---	74	52	63	79	77	78
13	106	73	84	---	---	---	55	51	52	80	79	79
14	104	78	91	---	---	---	54	52	53	83	80	82
15	105	76	92	---	---	---	56	54	55	82	78	81
16	97	95	96	---	---	---	57	56	56	80	78	79
17	101	95	98	---	---	---	58	56	57	81	69	74
18	97	69	78	---	---	---	60	57	59	77	70	74
19	72	68	70	---	---	---	61	57	59	80	77	78
20	70	68	69	---	---	---	56	54	55	81	77	80
21	74	70	72	---	---	---	55	52	54	80	72	75
22	79	74	77	68	61	63	54	52	53	76	72	74
23	80	79	80	76	69	73	55	53	54	77	73	75
24	79	74	76	71	62	66	58	55	56	78	73	76
25	78	75	77	63	60	61	55	52	54	81	77	79
26	79	77	78	67	63	64	55	53	54	83	79	81
27	81	76	78	70	66	68	55	52	53	87	82	85
28	81	79	80	70	61	67	57	54	55	87	79	83
29	---	---	---	62	60	61	59	56	58	81	78	80
30	---	---	---	65	60	62	58	57	58	80	77	79
31	---	---	---	72	66	69	---	---	---	76	65	68
MONTH	113	65	82	85	60	68	78	50	62	87	60	74

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	66	62	64	91	86	88	141	136	138			
2	70	63	67	90	83	86	137	131	135			
3	76	69	73	85	82	83	131	126	128			
4	80	70	77	85	83	84	130	128	129			
5	70	62	64	86	83	85	145	130	134			
6	74	64	68	88	84	85	175	146	160			
7	80	74	78	89	86	88	177	171	174			
8	82	78	80	89	86	87	171	140	160			
9	84	79	82	---	---	---	157	137	146			
10	86	83	85	---	---	---	137	123	128			
11	87	83	86	---	---	---	---	---	---			
12	87	83	85	---	---	---	---	---	---			
13	86	82	84	---	---	---	---	---	---			
14	88	82	85	100	95	98	---	---	---			
15	91	87	89	106	100	102	---	---	---			
16	93	90	92	109	106	107	---	---	---			
17	97	93	95	114	109	111	---	---	---			
18	98	96	97	118	113	116	---	---	---			
19	98	94	96	117	113	115	---	---	---			
20	98	93	95	116	108	111	---	---	---			
21	93	90	92	138	117	128	---	---	---			
22	101	93	96	147	134	139	---	---	---			
23	108	102	105	150	144	147	---	---	---			
24	108	104	106	144	128	138	---	---	---			
25	106	101	103	142	129	135	---	---	---			
26	104	101	102	142	138	141	---	---	---			
27	102	97	99	137	131	133	---	---	---			
28	99	93	95	132	129	131	---	---	---			
29	94	79	90	136	130	132	---	---	---			
30	86	78	81	140	135	137	---	---	---			
31	---	---	---	142	138	140	---	---	---			
MONTH	108	62	87	150	82	113	177	123	143			
YEAR	177	50	94									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation, 3.25 ft (0.991 m) Jan. 29; minimum, -2.34 ft (-0.713 m) Nov. 27.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	3.04	2.97	3.15	3.25	3.16	3.14	2.95	2.60	2.62	2.77	3.03	2.74
	Date	10	3	19	29	26	18	25	14	13	10	11	6
	Time	0300	1015	1130	0930	0815	2400	2000	2230	2300	2100	2245	2030
Minimum low tide	Elevation	-1.48	-2.34	-2.08	-1.96	-1.83	-2.33	-1.44	-1.83	-1.73	-1.54	-1.40	-1.51
	Date	31	27	29	26	28	30	30	28	12	11	10	8
	Time	1445	1230	1430	1315	1615	0430	0545	0445	0415	0400	0430	0415

NOTE.--Time shown is eastern standard.

THAMES RIVER BASIN

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01119375 WILLIMANTIC RIVER AT MERROW, CT

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

DRAINAGE AREA.--94.0 mi² (243.5 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 21...	0945	42	104	6.8	13.5	11.0	2.0	10.6	96	140	220
NOV 19...	1115	132	72	6.7	8.0	6.5	1.0	12.2	98	320	280
DEC 16...	0930	76	91	6.6	12.5	0.5	3.0	14.3	101	2500	6000
JAN 17...	1100	185	70	6.7	1.0	0.0	1.5	15.3	107	230	260
MAR 03...	0930	547	64	6.7	5.0	2.5	0.7	13.9	104	380	2400
APR 12...	1440	828	51	6.7	11.0	8.0	0.6	12.8	109	640	840
MAY 17...	1230	360	60	7.0	13.5	12.0	0.61	12.0	111	340	180
JUN 16...	1330	116	95	6.9	29.0	24.5	1.3	9.8	118	440	3200
JUL 15...	0815	31	120	7.0	28.0	21.0	1.2	8.4	95	400	4400
AUG 11...	1505	25	123	6.9	21.0	21.0	0.6	10.4	117	160	2000
SEP 01...	1345	23	138	7.4	28.0	25.0	1.5	9.3	113	400	480

DATE	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 LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 21...	--	--	--	--	--	12	13	--	72	25	0.1
NOV 19...	15	8	3.6	1.5	7.0	10	9.4	9.0	62	38	0.08
DEC 16...	--	--	--	--	--	10	10	--	62	20	0.08
JAN 17...	14	8	3.5	1.3	6.0	8.0	8.2	8.6	48	33	0.06
MAR 03...	--	--	--	--	--	11	7.6	--	32	19	0.04
APR 12...	--	--	--	--	--	5.0	6.0	--	38	11	0.05
MAY 17...	13	6	3.4	1.2	7.0	8.0	5.9	7.1	44	30	0.06
JUN 16...	--	--	--	--	--	15	10	--	70	25	0.09
JUL 15...	23	9	6.1	1.9	14	11	18	8.8	87	55	0.12
AUG 11...	--	--	--	--	--	14	17	--	85	31	0.12
SEP 01...	--	--	--	--	--	13	20	--	83	33	0.11

01119375 WILLIMANTIC RIVER AT MERROW, --Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 21...	8.1	80	0.29	<0.01	0.3	0.02	0.48	0.5	0.8	0.04
NOV 19...	22.1	69	0.29	0.01	0.3	0.05	0.15	0.2	0.5	0.03
DEC 16...	12.7	75	0.39	<0.01	0.4	0.14	0.96	1.10	1.5	0.06
JAN 17...	24.0	50	0.29	<0.01	0.3	0.05	0.15	0.2	0.5	0.03
MAR 03...	47.3	52	0.29	<0.01	0.3	0.10	0.5	0.6	0.9	0.02
APR 12...	85.0	44	0.19	0.01	0.2	0.04	0.26	0.3	0.5	0.04
MAY 17...	42.8	50	0.19	<0.01	0.2	0.04	0.26	0.3	0.5	0.03
JUN 16...	21.9	74	0.39	<0.01	0.4	<0.01	0.29	0.3	0.7	0.05
JUL 15...	7.2	76	0.49	<0.01	0.5	0.02	0.68	0.7	1.2	0.10
AUG 11...	5.6	97	0.97	0.03	1.0	0.05	0.85	0.9	1.9	0.06
SEP 01...	5.1	92	1.2	0.01	1.2	0.06	0.94	1.00	2.2	0.12

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	0.02	<1	<1	9	--	1	--	4	10	6.3
NOV 19...	0.02	<1	<1	5	190	1	21	2	7.00	5.0
DEC 16...	0.04	5	<1	1	--	3	--	3	<10	4.2
JAN 17...	0.03	1	<1	2	110	2	21	2	5.00	3.4
MAR 03...	<0.01	1	4	4	--	4	--	4	20	2.8
APR 12...	<0.01	<1	<1	7	--	3	--	3	10	3.1
MAY 17...	0.01	1	<1	3	160	<1	20	1	3.00	3.4
JUN 16...	0.04	1	12	5	--	1	--	1	10	3.7
JUL 15...	0.08	<1	<1	23	270	4	15	4	33	6.7
AUG 11...	0.07	1	<1	11	--	2	--	1	20	4.3
SEP 01...	0.10	1	<1	14	--	1	--	1	20	3.3

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.--121 mi² (313 km²) rev.

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, WDR 79-1: 1978 (m).

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

REMARKS.--Water-discharge record good. Natural flow of stream regulated by Staffordville Reservoir (see p.68). High streamflow regulated by six flood-detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft³ (8,649,000 m³). Water-quality data available for water years 1956-57, 1963-64, 1975-80.

AVERAGE DISCHARGE (adjusted for storage since water year 1961).--52 years, 214 ft³/s (6.060 m³/s), 24.01 in/yr (610 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	1300	1460 41.3	7.06 2.152	Apr. 11	0300	2400 68.0	8.52 2.597
Feb. 3	2130	1880 53.2	7.76 2.365	17	0800	1160 32.9	6.51 1.984
Mar. 12	1730	1200 34.0	6.61 2.015	20	0300	*3750 106	*9.89 3.014
19	1830	1850 52.4	7.71 2.350	24	1930	1910 54.1	7.81 2.380

Minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 12, gage height, 2.64 ft (0.805 m); minimum daily, 21 ft³/s (0.59 m³/s) Sept. 11,12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	70	195	115	268	270	421	485	614	116	28	29
2	26	80	163	110	255	494	382	453	457	83	33	28
3	25	61	147	105	1190	678	421	447	370	81	36	27
4	23	60	135	101	1310	559	558	475	541	73	44	25
5	23	226	132	99	713	462	463	469	593	73	89	25
6	23	255	138	202	475	399	400	412	424	97	64	25
7	28	179	136	274	405	438	362	362	354	79	52	25
8	31	144	116	215	408	487	379	334	299	66	45	23
9	318	116	109	179	347	930	517	368	254	56	54	23
10	269	93	100	160	326	849	681	348	225	49	37	22
11	175	88	92	1100	285	851	1990	316	208	49	32	21
12	122	85	85	861	244	1070	1150	299	184	48	53	21
13	93	450	80	503	180	982	583	283	180	45	84	26
14	96	571	85	349	170	714	609	277	154	42	71	40
15	89	392	97	289	160	572	527	270	146	40	50	43
16	76	300	184	270	150	491	498	365	130	38	42	38
17	66	233	323	240	250	440	1040	457	128	35	35	27
18	59	194	227	220	421	409	688	373	111	33	44	29
19	55	172	175	210	362	1320	1580	307	113	33	102	33
20	52	155	160	200	306	1370	2920	277	113	33	78	29
21	53	146	146	190	269	964	1550	296	99	32	56	26
22	51	146	131	180	291	973	1110	259	87	42	40	71
23	43	132	125	225	295	740	778	343	81	61	33	71
24	40	134	127	539	320	590	959	376	75	47	29	55
25	49	116	156	524	308	514	1390	345	64	42	29	39
26	174	114	209	403	285	457	1060	288	62	38	28	35
27	161	110	207	309	245	424	814	612	67	34	28	32
28	116	103	178	270	254	834	678	635	142	31	34	29
29	91	200	166	230	---	730	590	437	245	30	32	29
30	77	247	148	214	---	558	531	695	154	29	29	27
31	68	---	124	260	---	472	---	818	---	28	29	---
TOTAL	2602	5372	4596	9146	10492	21041	25629	12481	6674	1583	1440	973
MEAN	83.9	179	148	295	375	679	854	403	222	51.1	46.5	32.4
MAX	318	571	323	1100	1310	1370	2920	818	614	116	102	71
MIN	23	60	80	99	150	270	362	259	62	28	28	21
(†)	+6.8	0	0	0	0	0	0	0	0	0	-0.4	-2.0
MEAN‡	90.7	179	148	295	375	679	854	403	222	51.1	46.1	30.4
CFSM‡	0.75	1.48	1.22	2.44	3.10	5.61	7.06	3.33	1.83	0.42	0.38	0.25
IN ‡	0.86	1.65	1.41	2.81	3.23	6.47	7.88	3.84	2.04	0.48	0.44	0.28

CAL YR 1982 TOTAL 101233 MEAN 277 MAX 5960 MIN 23 MEAN‡ 277 CFSM‡ 2.29 IN‡ 31.11
WTR YR 1983 TOTAL 102029 MEAN 280 MAX 2920 MIN 21 MEAN‡ 280 CFSM‡ 2.31 IN‡ 31.39

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

‡ Adjusted for change in contents.

THAMES RIVER BASIN

01121000 MOUNT HOPE RIVER NEAR WARRENVILLE, CT

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

DRAINAGE AREA.--28.6 mi² (74.1 km²).

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

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

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

REMARKS.--Records good. Occasional regulation from ponds upstream. Chemical analyses available for water year 1959 (WSP 1641). Release from Lake Chaffee on Oct. 3-8, Sept. 13-29.

AVERAGE DISCHARGE.--43 years, 51.2 ft³/s (1.450 m³/s), 24.31 in/yr (617 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. 11	0800	640 18.1	5.60 1.707	Apr. 11	0130	992 28.1	6.68 2.036
Feb. 3	1330	768 21.7	6.06 1.847	20	0100	*1060 30.0	*6.84 2.085
Mar. 19	2400	504 14.3	5.02 1.530	24	1930	662 18.7	5.69 1.734

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Sept. 10, 11, gage height, 1.03 ft (0.314 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	12	46	28	77	74	78	93	113	17	1.9	4.2
2	4.3	11	34	26	70	179	70	85	84	13	2.6	2.6
3	11	10	31	26	491	151	93	80	65	12	2.8	2.1
4	13	14	31	22	289	107	119	107	149	9.3	7.3	1.8
5	12	108	29	22	142	92	88	97	185	10	11	1.8
6	12	67	29	58	102	81	73	79	100	18	6.7	1.7
7	11	37	28	59	95	101	66	66	79	12	5.4	1.4
8	12	27	25	44	87	108	81	59	67	8.7	4.2	1.4
9	165	22	24	34	83	244	118	76	50	7.8	3.3	1.4
10	58	20	20	32	77	184	229	63	43	6.7	2.4	1.1
11	32	18	22	426	72	175	581	55	38	5.7	2.2	1.1
12	23	17	21	196	68	280	220	52	34	5.4	7.5	1.4
13	20	205	20	108	65	175	145	48	29	4.9	9.0	7.8
14	19	135	17	80	63	124	116	46	25	4.2	6.0	9.3
15	16	88	19	67	62	105	101	56	23	3.6	4.7	10
16	11	70	71	64	59	89	103	75	23	3.6	3.3	10
17	10	58	88	60	74	80	242	94	23	2.8	2.8	11
18	8.7	45	49	57	135	76	139	59	20	2.4	8.4	11
19	7.8	39	38	52	105	358	469	47	18	2.2	13	9.3
20	8.4	35	35	50	81	340	607	50	16	2.2	7.5	10
21	7.8	31	34	46	73	222	278	53	14	2.1	4.9	11
22	8.7	30	30	44	75	230	188	44	13	5.7	3.6	22
23	8.4	28	29	63	80	147	151	79	11	4.2	3.1	11
24	8.1	27	33	189	87	117	378	74	9.3	5.4	2.6	10
25	12	25	41	128	81	98	434	54	8.4	7.0	2.1	9.3
26	61	24	57	91	72	86	227	43	7.8	4.9	1.7	7.0
27	29	28	44	68	63	80	165	187	9.0	3.6	2.1	5.6
28	18	24	41	61	64	216	137	153	51	2.6	2.1	3.3
29	15	68	37	53	---	141	118	86	45	2.4	2.8	1.5
30	13	61	33	50	---	101	104	211	24	2.2	2.6	1.3
31	18	---	30	77	---	86	---	188	---	1.7	3.3	---
TOTAL	657.9	1384	1086	2381	2892	4647	5918	2559	1376.5	193.3	142.9	182.4
MEAN	21.2	46.1	35.0	76.8	103	150	197	82.5	45.9	6.24	4.61	6.08
MAX	165	205	88	426	491	358	607	211	185	18	13	22
MIN	4.3	10	17	22	59	74	66	43	7.8	1.7	1.7	1.1
CFSM	† .69	1.61	1.22	2.69	3.60	5.25	6.89	2.89	1.61	.22	.16	† .08
IN.	† .80	1.80	1.41	3.10	3.76	6.04	7.70	3.33	1.79	.25	.19	† .09

CAL YR 1982 TOTAL 23847.7 MEAN 65.3 MAX 1780 MIN 1.9 †CFSM 2.28 †IN 30.96
WTR YR 1983 TOTAL 23420.0 MEAN 64.2 MAX 607 MIN 1.1 †CFSM 2.23 †IN 30.25

†Adjusted for release from Lake Chaffee.

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.--174 mi² (451 km²) rev.

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

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

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

REMARKS.--Records good. City of Willimantic diverts an average of about 1.8 mgd (0.079 m³/s) for municipal supply from reservoir 2 mi (3 km) upstream. Operation of water wheels at this location causes diurnal fluctuation at low flow. Flow regulated since March 1952 by Mansfield Hollow Lake (see p. 68). Chemical analyses available for water years 1954 (WSP 1350), 1958 (WSP 1571), and 1964 (WSP 1954).

AVERAGE DISCHARGE (adjusted for storage).--53 years, 302 ft³/s (8.553 m³/s), 23.56 in/yr (598 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 over dam 2 mi (3 km) upstream minimum, about 0.3 ft³/s (0.08 m³/s) Aug. 6, 1937 minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 11, 12, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,680 ft³/s (75.9 m³/s) Apr. 28, gage height, 7.79 ft (2.374 m) minimum, 15 ft³/s (0.42 m³/s), Sept. 30, gage height, 1.04 ft (0.317 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	124	219	272	418	447	700	2130	960	132	28	27
2	36	120	314	204	346	501	508	1770	976	138	26	26
3	35	98	221	199	398	732	458	917	1010	132	25	25
4	36	106	319	195	1220	790	628	548	996	129	25	24
5	34	149	301	154	1730	700	716	673	964	136	26	22
6	34	142	177	156	1540	543	617	654	639	134	36	22
7	34	152	228	210	1340	598	489	542	473	123	40	22
8	36	140	183	212	932	704	464	434	467	122	38	21
9	84	139	173	212	560	894	631	436	458	114	37	21
10	43	137	127	251	327	1020	591	434	297	85	33	21
11	40	138	88	489	280	948	450	428	330	71	33	21
12	93	226	272	661	250	624	1190	412	359	65	52	22
13	144	477	246	669	230	972	2240	397	242	54	43	22
14	151	748	197	661	220	1350	2260	359	235	49	42	21
15	122	724	118	654	200	1380	1520	344	223	46	40	20
16	138	673	145	635	300	837	514	394	198	42	39	20
17	147	527	175	724	435	477	898	431	186	40	34	20
18	145	235	230	752	606	379	1380	434	173	34	39	21
19	126	233	233	501	740	341	1370	423	163	37	37	20
20	133	230	274	343	681	1220	335	407	157	39	44	19
21	140	233	314	301	553	1490	1060	390	156	41	45	20
22	129	210	304	281	505	631	2130	314	132	32	39	36
23	127	120	279	304	489	1920	1060	273	125	40	37	19
24	115	131	217	471	495	2400	635	267	111	40	32	20
25	129	131	219	581	537	1910	868	275	96	40	28	20
26	142	131	221	581	521	944	1860	275	88	37	26	20
27	130	129	202	567	477	553	2490	389	77	37	25	18
28	127	131	193	543	441	658	2590	423	109	34	28	19
29	127	149	309	477	---	925	2550	658	106	34	33	17
30	129	228	299	387	---	940	2360	824	125	30	24	17
31	127	---	294	384	---	972	---	913	---	30	27	---
TOTAL	3069	7111	7091	13031	16771	28800	35562	17568	10631	2117	1061	643
MEAN	99.0	237	229	420	599	929	1185	567	354	68.3	34.2	21.4
MAX	151	748	319	752	1730	2400	2590	2130	1010	138	52	36
MIN	34	98	88	154	200	341	335	267	77	30	24	17
(+)	-25.4	+49.8	-25.8	+9.7	-9.9	+29.3	+115.1	-70.2	-57.3	-14.5	0	-1.5
†MEAN	73.6	287	203	430	589	958	1300	497	297	53.8	34.2	19.9
†CFSM	0.42	1.65	1.17	2.47	3.39	5.51	7.47	2.86	1.71	0.31	0.20	0.11
†IN	0.48	1.84	1.35	2.85	3.53	6.35	8.33	3.30	1.91	0.36	0.23	0.12

CAL YR 1982 TOTAL 138721 MEAN 380 MAX 2660 MIN 32 †MEAN 380 †CFSM 2.18 †IN 29.65
WTR YR 1983 TOTAL 143455 MEAN 393 MAX 2590 MIN 17 †MEAN 393 †CFSM 2.26 †IN 30.65

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

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.--404 mi² (1,046 km²) rev.

PERIOD OF RECORD.--April 1904 to December 1905, October 1919 to September 1921, September 1928 to current year.

Published as "at South Windham" October 1919 to September 1921, September 1928 to September 1933.

Monthly discharge only for some periods, published in WSP 1301.

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

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

REMARKS.--Records good. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply of city of Willimantic, and by Mansfield Hollow Lake (see p. 68).

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).--58 years, 713 ft³/s (20.19 m³/s), 23.96 in/yr (609 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, 8,080 ft³/s (229 m³/s) Apr. 20, gage height, 10.65 ft (3.246 m); minimum, 54 ft³/s (1.53 m³/s) Sept. 6-8, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	271	508	465	920	932	1420	2920	2200	305	68	73
2	100	274	562	389	829	1480	1150	2580	1850	267	69	69
3	94	237	448	381	2020	2020	1130	1680	1650	264	73	66
4	92	225	517	356	3750	1750	1660	1300	1910	242	73	61
5	89	482	513	311	3030	1520	1540	1500	2130	245	119	59
6	89	580	389	440	2330	1260	1300	1330	1410	283	119	58
7	90	444	452	670	2000	1330	1100	1140	1050	249	110	56
8	101	374	389	566	1630	1530	1090	954	954	225	97	56
9	404	335	367	490	1200	2570	1640	1020	858	205	99	63
10	404	308	321	477	857	2480	1720	1010	653	170	86	61
11	301	295	265	2190	700	2380	4900	914	639	149	76	59
12	274	352	432	2450	600	2450	3900	864	615	142	128	59
13	298	1110	381	1590	550	2820	3790	826	492	130	152	63
14	305	1750	349	1250	530	2630	3430	777	464	121	142	69
15	284	1390	281	1130	500	2390	2660	734	429	112	117	80
16	311	1200	427	1100	600	1640	1460	914	396	104	97	76
17	295	932	779	1140	926	1180	2910	1140	374	97	86	69
18	291	557	626	1090	1390	1030	2990	1010	348	88	92	64
19	268	517	513	795	1500	2860	3690	886	338	88	139	69
20	262	482	508	626	1300	4780	7120	826	324	95	144	66
21	262	444	535	589	1070	3500	4620	815	308	90	121	63
22	252	420	504	571	1040	2640	4230	708	275	95	97	128
23	243	328	473	650	1030	3300	2790	782	256	102	84	126
24	228	328	424	1460	1110	3400	2720	821	228	123	75	97
25	255	315	477	1670	1130	2860	4460	761	205	97	69	82
26	440	308	557	1390	1050	1770	3990	678	184	97	64	75
27	424	301	531	1150	920	1270	3950	1280	181	90	63	69
28	349	295	460	986	885	2160	3720	1990	275	82	71	66
29	311	436	562	897	---	2400	3510	1500	426	78	86	63
30	291	598	526	757	---	1950	3230	2080	356	76	75	59
31	278	---	490	840	---	1830	---	2700	---	73	71	---
TOTAL	7790	15888	14566	28866	35397	68112	87820	38440	21778	4584	2962	2124
MEAN	251	530	470	931	1264	2197	2927	1240	726	148	95.5	70.8
MAX	440	1750	779	2450	3750	4780	7120	2920	2200	305	152	128
MIN	89	225	265	311	500	932	1090	678	181	73	63	56
(†)	-25.4	+49.8	-25.8	+9.7	-9.9	+29.3	+115.1	-70.2	-57.3	-14.5	0	-1.5
‡MEAN	226	580	444	941	1254	2226	3042	1170	669	134	95.5	69.3
‡CFSM	0.56	1.44	1.10	2.33	3.10	5.51	7.53	2.90	1.66	0.33	0.24	0.17
‡IN	0.65	1.61	1.27	2.69	3.23	6.35	8.40	3.34	1.85	0.38	0.28	0.19

CAL YR 1982 TOTAL 316685 MEAN 868 MAX 13400 MIN 87 ‡MEAN 868 ‡CFSM 2.15 ‡IN 29.17
WAL YR 1983 TOTAL 328327 MEAN 900 MAX 7120 MIN 56 ‡MEAN 900 ‡CFSM 2.23 ‡IN 30.24

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

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT

(National stream-quality accounting network station)

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

DRAINAGE AREA.--408 mi² (1,057 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1980 to current year.

WATER TEMPERATURE: August 1980 to current year.

INSTRUMENTATION.--Water-quality monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 301 micromhos May 21, 1982; minimum, 33 micromhos May 14, 1981.

WATER TEMPERATURE: Maximum, 29.0°C July 18, 19, 1982; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 218 micromhos Sep. 4; minimum, 46 micromhos Apr. 20.

WATER TEMPERATURE: Maximum, 28.5°C July 4, Aug. 8; minimum, 0.0°C on many days during winter period.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01122500, 1.6 mi (4.1 km) upstream, and adjusting its discharge by multiplying by a factor of 1.01, which is the ratio of the two stations' drainage areas. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 21...	1115	266	102	7.2	14.5	12.5	3.0	10.9	102	7200	820	--
NOV 19...	1345	525	92	7.1	10.0	6.5	2.0	12.0	95	10000	3900	20
DEC 16...	1130	319	115	7.0	14.5	2.5	3.4	14.3	104	440	1800	--
JAN 17...	1320	1250	76	7.0	-3.0	1.0	1.8	15.0	107	1100	2200	17
MAR 03...	1130	2130	74	7.0	8.0	3.5	0.7	13.7	104	1700	1200	--
APR 12...	1300	3850	55	6.9	12.5	8.0	0.8	11.8	100	2000	2700	--
MAY 17...	1400	1200	76	7.3	14.0	13.0	0.4	11.2	106	250	310	19
JUN 16...	1200	408	96	7.1	26.0	24.5	1.2	9.2	110	140	1900	--
JUL 15...	1000	189	119	7.0	28.0	23.0	4.0	8.2	96	220	800	30
AUG 11...	1330	78	120	7.0	22.0	22.5	0.7	8.1	92	150	1000	--
SEP 02...	1445	70	130	7.7	26.5	25.0	1.0	10.4	125	92	740	--

DATE	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 21...	--	--	--	--	--	--	13	9.6	--	--	72	23
NOV 19...	9	5.4	1.5	8.3	1.1	11	16	9.6	<0.1	8.9	61	58
DEC 16...	--	--	--	--	--	--	11	10	--	--	77	21
JAN 17...	9	4.5	1.4	6.8	1.2	8.0	11	8.1	<0.1	8.3	62	47
MAR 03...	--	--	--	--	--	--	12	8.6	--	--	47	21
APR 12...	--	--	--	--	--	--	5.0	6.1	--	--	40	11
MAY 17...	8	5.2	1.4	5.3	1.1	11	10	6.7	<0.1	6.8	53	44
JUN 16...	--	--	--	--	--	--	14	9.0	--	--	70	23
JUL 15...	12	8.5	2.1	11	1.8	18	20	13	0.2	6.7	--	75
AUG 11...	--	--	--	--	--	--	14	14	--	--	79	28
SEP 02...	--	--	--	--	--	--	13	14	--	--	79	27

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT 21...	0.1	51.7	71	0.38	0.02	0.4	--	0.16	--	0.44	0.6	1.0
NOV 19...	0.08	86.5	67	0.29	0.01	0.3	0.28	0.23	0.20	0.37	0.6	0.9
DEC 16...	0.1	66.3	82	0.49	<0.01	0.5	--	0.28	--	0.42	0.7	1.2
JAN 17...	0.08	209	66	0.29	<0.01	0.3	0.34	0.08	0.08	0.12	0.2	0.5
MAR 03...	0.06	270	60	0.39	<0.01	0.4	--	0.07	--	0.33	0.4	0.8
APR 12...	0.05	416	49	0.19	<0.01	0.2	--	0.04	--	0.26	0.3	0.5
MAY 17...	0.07	172	56	0.19	<0.01	0.2	0.25	0.08	0.09	0.22	0.3	0.5
JUN 16...	0.09	77.1	72	0.29	<0.01	0.3	--	0.09	--	0.51	0.6	0.9
JUL 15...	0.1	38.1	74	0.47	0.03	0.5	0.49	0.10	0.09	0.6	0.7	1.2
AUG 11...	0.11	16.5	100	0.46	0.04	0.5	--	0.13	--	0.57	0.7	1.2
SEP 02...	0.11	15.0	90	0.67	0.03	0.7	--	0.17	--	0.83	1.00	1.7

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 21...	0.09	0.06	--	--	--	--	--	1	<1	--	4	--
NOV 19...	0.11	0.05	0.03	110	1	<1.00	14.00	<1	<1	<3.00	4	220
DEC 16...	0.10	0.08	--	--	--	--	--	4	<1	--	1	--
JAN 17...	0.08	0.08	0.02	10	1	<1.00	12.00	2	<1	<3.00	1	140
MAR 03...	0.04	0.02	--	--	--	--	--	<1	6	--	4	--
APR 12...	0.05	0.04	--	--	--	--	--	<1	<1	--	2	--
MAY 17...	0.05	0.03	0.02	80	<1	<0.50	12.00	<1	<1	<3.00	5	180
JUN 16...	0.07	0.05	--	--	--	--	--	<1	3	--	<1	--
JUL 15...	0.08	0.06	0.04	10	1	<0.50	--	3	<1	<3.00	12	280
AUG 11...	0.10	0.11	--	--	--	--	--	1	<1	--	13	--
SEP 02...	0.17	0.15	--	--	--	--	--	1	<1	--	5	--

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	<1	--	--	--	--	7	--	--	--	--	<10	7.0
NOV 19...	1	<4.00	24	<0.1	<10	<1	<1	<1	26	<6.0	6.00	4.5
DEC 16...	<1	--	--	--	--	2	--	--	--	--	<10	3.8
JAN 17...	3	<4.00	23	1.0	<10	2	<1	<1	27	<6.0	<4.00	4.2
MAR 03...	3	--	--	--	--	3	--	--	--	--	10	2.8
APR 12...	5	--	--	--	--	2	--	--	--	--	<10	4.8
MAY 17...	<1	<4.00	28	0.8	<10	<1	<1	<1	29	<6.0	<3.00	3.1
JUN 16...	<1	--	--	--	--	<1	--	--	--	--	10	4.4
JUL 15...	2	<4.00	17	0.6	<10	3	<1	<1	48	<6.0	28	5.2
AUG 11...	3	--	--	--	--	1	--	--	--	--	20	3.5
SEP 02...	<1	--	--	--	--	1	--	--	--	--	20	3.7

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 19...	1345	525	13	18	54
JAN 17...	1320	1250	1	3.4	100
MAY 17...	1400	1200	6	19	50
JUL 15...	1000	189	8	4.1	59

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	182	144	161	119	99	108	---	---	---	89	85	87
2	182	145	163	111	96	104	---	---	---	90	87	89
3	168	135	149	120	100	110	---	---	---	94	87	90
4	189	141	167	123	101	113	---	---	---	107	93	99
5	197	147	171	193	103	129	---	---	---	104	91	96
6	209	161	190	106	101	104	---	---	---	106	95	103
7	208	159	186	109	100	104	---	---	---	97	89	93
8	187	155	175	101	97	99	---	---	---	102	91	97
9	183	118	137	102	98	100	---	---	---	95	88	91
10	126	112	119	108	98	103	---	---	---	90	85	88
11	138	113	124	108	100	105	---	---	---	86	69	75
12	126	114	119	107	96	102	---	---	---	69	64	67
13	118	105	111	95	84	90	---	---	---	69	63	66
14	118	105	113	89	86	88	---	---	---	70	65	67
15	122	109	115	86	80	83	---	---	---	71	68	70
16	115	104	109	80	78	79	---	---	---	76	71	74
17	107	97	103	85	78	81	102	93	97	75	70	72
18	105	96	102	93	83	88	95	89	92	75	69	72
19	109	101	105	95	91	92	90	86	88	82	72	76
20	110	99	106	97	86	91	90	86	88	92	81	87
21	114	103	108	97	88	92	89	84	87	96	85	91
22	111	102	107	---	---	---	90	84	87	92	85	89
23	113	101	106	---	---	---	102	89	94	144	88	109
24	117	102	109	---	---	---	115	96	103	109	89	94
25	114	99	107	---	---	---	109	93	101	87	77	81
26	104	91	98	---	---	---	112	99	103	82	76	79
27	108	99	104	---	---	---	110	91	98	79	77	78
28	105	96	101	---	---	---	116	94	102	88	79	83
29	117	99	107	---	---	---	104	90	97	91	82	85
30	120	100	110	---	---	---	94	86	90	87	83	84
31	109	96	103	---	---	---	93	86	90	84	82	83
MONTH	209	91	125	193	78	98	116	84	94	144	63	84

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	85	82	84	88	80	84	76	72	74	67	63	65
2	91	83	86	87	78	83	81	74	77	71	67	68
3	91	66	78	78	71	74	78	75	77	77	71	73
4	66	54	59	71	68	69	75	70	73	81	77	79
5	61	56	59	75	70	72	75	71	73	80	78	79
6	61	57	60	79	71	75	79	74	76	79	77	78
7	63	60	61	77	74	75	82	77	79	81	78	80
8	69	62	65	75	72	74	79	76	77	95	81	83
9	77	67	71	72	67	70	76	73	75	93	86	87
10	80	73	76	69	65	67	80	63	74	86	80	83
11	80	73	77	71	66	67	61	53	55	81	78	79
12	80	76	78	70	63	67	56	52	55	83	78	79
13	77	72	74	64	59	62	57	54	56	88	81	84
14	75	71	73	67	61	64	59	56	58	87	81	84
15	85	73	78	69	64	67	67	58	61	89	87	88
16	83	75	80	73	68	71	69	67	68	89	79	83
17	91	78	82	81	70	76	67	61	64	78	76	77
18	85	77	80	81	74	76	62	60	61	79	75	78
19	77	73	75	81	59	68	62	49	59	89	75	82
20	75	72	73	60	57	58	50	46	48	89	84	86
21	76	73	74	67	57	60	55	50	52	84	78	81
22	81	75	77	69	60	65	55	51	53	84	76	79
23	86	81	83	62	60	61	65	55	59	84	76	79
24	83	79	81	64	62	63	65	56	61	81	76	79
25	82	79	80	67	63	65	56	54	55	84	76	79
26	80	77	79	72	65	68	56	53	55	82	76	80
27	79	77	78	80	70	73	55	53	54	78	67	72
28	81	78	80	79	66	72	58	55	57	70	64	68
29	---	---	---	66	64	66	61	58	60	69	61	65
30	---	---	---	71	65	68	63	61	62	62	58	61
31	---	---	---	74	68	71	---	---	---	57	55	56
MONTH	91	54	75	88	57	69	82	46	64	95	55	77

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	58	54	56	99	90	94	138	124	131	---	---	---
2	63	56	59	97	88	93	152	134	143	---	---	---
3	66	60	63	97	89	93	157	138	149	212	135	170
4	64	60	62	99	90	94	150	134	144	218	130	167
5	62	59	61	112	92	97	154	138	145	206	131	160
6	65	58	62	114	96	104	141	126	134	203	134	159
7	69	64	67	116	101	106	129	119	124	210	143	166
8	73	66	70	111	95	101	132	116	122	180	145	162
9	74	70	72	108	94	101	132	120	127	189	142	164
10	87	70	77	155	106	120	132	117	125	206	143	167
11	86	69	80	156	117	133	133	119	128	184	135	159
12	86	69	78	135	109	117	---	---	---	193	140	163
13	83	76	79	130	112	119	---	---	---	164	144	155
14	87	79	82	127	113	120	---	---	---	165	149	157
15	97	84	90	139	116	126	---	---	---	162	132	148
16	107	91	98	137	119	127	---	---	---	162	140	152
17	109	95	102	125	115	121	---	---	---	155	139	148
18	105	94	100	133	114	120	---	---	---	153	135	145
19	105	93	99	150	123	135	---	---	---	151	135	145
20	103	93	97	144	121	131	---	---	---	161	141	151
21	118	96	104	144	127	135	---	---	---	165	147	157
22	120	101	112	142	118	130	---	---	---	161	122	138
23	123	104	112	144	126	136	---	---	---	162	141	150
24	126	103	110	132	114	121	---	---	---	170	144	158
25	109	98	104	130	115	123	---	---	---	155	139	147
26	106	100	103	138	121	129	---	---	---	153	134	146
27	112	105	108	149	126	136	---	---	---	157	135	146
28	114	103	109	149	126	137	---	---	---	165	135	151
29	124	103	114	143	124	131	---	---	---	171	137	153
30	101	94	97	149	130	140	---	---	---	157	139	149
31	---	---	---	141	124	133	---	---	---	---	---	---
MONTH	126	54	88	156	88	119	157	116	134	218	122	155
YEAR	218	46	96									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--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	4.0	3.0	3.5	7.5	6.0	6.5	15.0	13.5	14.0
2	3.0	1.5	2.0	4.5	4.0	4.0	8.5	6.0	7.0	15.0	14.5	14.5
3	4.5	3.0	4.5	4.5	3.5	4.0	7.5	6.5	7.0	16.0	15.0	15.5
4	4.5	2.5	4.0	4.0	3.5	3.5	7.5	6.0	7.0	16.0	15.0	16.0
5	2.5	1.5	2.0	4.5	3.0	4.0	8.5	7.0	8.0	15.5	14.0	15.0
6	1.5	1.0	1.0	5.0	4.0	4.5	9.5	7.5	8.5	16.0	14.0	15.0
7	1.0	.5	1.0	5.0	4.5	5.0	10.0	8.5	9.5	16.0	14.0	15.0
8	1.5	.5	1.0	4.5	4.0	4.5	11.0	9.5	10.5	16.5	14.5	15.5
9	1.0	.0	.5	4.0	3.5	4.0	12.5	11.0	11.5	16.0	14.0	15.0
10	1.0	.0	.5	4.0	4.0	4.0	11.5	8.5	10.5	14.0	13.0	13.5
11	.5	.0	.0	4.5	4.0	4.0	8.5	8.0	8.0	13.0	12.0	12.5
12	1.0	.0	.5	4.5	4.0	4.0	9.0	8.0	8.5	13.0	11.0	12.0
13	1.0	.0	.5	4.5	4.0	4.0	10.0	8.5	9.0	12.5	11.5	12.0
14	1.0	.0	.5	5.5	4.0	4.5	10.5	9.0	10.0	14.5	12.0	13.0
15	1.5	.0	.5	6.5	5.5	6.0	10.5	10.0	10.0	13.5	13.0	13.5
16	1.5	.5	1.0	6.5	6.0	6.0	10.0	9.0	9.5	13.5	12.0	13.0
17	1.5	1.0	1.0	6.0	5.5	6.0	9.0	8.0	8.5	13.0	11.0	12.0
18	2.0	1.0	1.5	6.5	5.5	6.0	9.0	8.0	8.5	14.0	11.0	12.5
19	1.5	.5	1.0	8.5	6.5	8.0	8.5	6.5	7.5	13.5	12.0	13.0
20	2.0	.5	1.5	9.0	8.5	8.5	7.0	6.0	6.5	13.5	13.0	13.0
21	2.5	1.0	1.5	8.5	7.5	8.0	7.5	6.5	7.0	15.0	13.0	14.0
22	3.0	1.5	2.5	8.0	7.0	7.5	8.5	7.0	8.0	17.0	14.5	16.0
23	3.0	2.5	3.0	7.0	6.0	6.5	10.5	7.5	9.0	18.0	16.0	17.0
24	3.5	2.0	3.0	6.0	5.0	5.5	10.0	9.5	10.0	17.5	17.0	17.0
25	3.5	2.5	3.0	5.5	4.5	5.0	9.5	9.0	9.5	18.5	15.5	17.0
26	3.5	2.5	3.0	5.0	4.0	4.5	9.0	9.0	9.0	17.0	16.0	16.5
27	3.5	1.5	2.5	5.0	4.0	4.5	10.5	8.5	9.5	16.0	13.0	14.5
28	4.0	2.0	3.0	6.0	4.5	5.5	12.0	10.5	11.0	14.5	12.5	13.5
29	---	---	---	7.5	6.0	6.5	12.5	11.5	12.0	14.5	14.5	14.5
30	---	---	---	6.5	5.0	5.5	14.0	12.0	13.0	14.5	14.5	14.5
31	---	---	---	6.5	5.0	6.0	---	---	---	15.5	14.5	15.0
MONTH	4.5	.0	1.5	9.0	3.0	5.5	14.0	6.0	9.0	18.5	11.0	14.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	14.5	15.5	24.0	19.5	21.5	26.5	24.0	25.0	---	---	---
2	17.5	15.5	16.5	25.0	21.5	23.0	27.5	24.0	25.5	---	---	---
3	18.0	16.0	17.0	27.5	22.5	24.5	28.0	23.0	25.5	25.5	21.5	23.5

THAMES RIVER BASIN

47

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.--30.0 mi² (77.7 km²) rev.

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

REVISED RECORDS.--WSP 1721: Drainage area.

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 57.1 ft³/s (1.617 m³/s), 25.85 in/yr (657 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,450 ft³/s (69.4 m³/s) June 6, 1982, gage height, 8.31 ft (2.533 m), from rating curve extended above 820 ft³/s (23 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 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. 11	1830	456 12.9	3.89 1.186	Apr. 11	0600	1100 31.2	5.78 1.743
Feb. 3	1930	520 14.7	4.10 1.250	20	0200	1010 28.6	5.46 1.664
Mar. 19	2100	736 20.8	4.82 1.469	25	0400	a*1140 32.3	*5.85 1.783

a From rating extended above 820 ft³/s (23 m³/s).

Minimum discharge, 5.2 ft³/s (0.15 m³/s) Sept. 7, 11, 12, gage height, 1.75 ft (0.533 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	30	77	29	72	65	87	91	104	13	8.3	7.8
2	13	26	56	28	64	118	77	85	72	10	8.4	7.4
3	14	25	56	27	352	114	90	81	56	15	8.1	7.1
4	13	39	39	24	264	83	110	98	119	10	7.9	6.9
5	10	140	40	21	125	75	83	98	108	9.7	8.2	7.3
6	8.7	114	40	38	87	65	68	77	70	17	8.0	6.9
7	7.4	70	38	51	77	70	61	67	55	13	8.0	6.3
8	8.3	52	31	41	77	85	74	59	45	11	7.9	5.9
9	81	44	28	34	68	258	140	59	37	10	7.6	5.5
10	74	38	25	28	60	188	234	52	32	9.7	7.4	5.4
11	51	32	24	306	56	186	865	50	29	9.4	7.5	5.2
12	40	31	23	203	52	261	299	50	26	9.2	11	6.7
13	34	154	22	103	51	177	167	47	22	9.0	22	7.6
14	41	167	22	74	49	125	123	45	20	9.0	9.9	7.6
15	36	110	22	59	47	98	102	46	18	8.9	8.8	7.4
16	29	92	53	54	45	79	95	59	30	9.0	8.3	7.2
17	26	70	100	45	61	67	193	77	22	8.8	7.9	7.5
18	23	59	64	43	154	62	133	55	19	8.7	8.3	7.4
19	21	51	49	41	125	433	382	45	17	8.7	9.4	7.5
20	21	45	44	39	90	476	749	49	19	8.8	9.5	7.0
21	20	44	40	38	79	229	292	54	16	8.8	12	6.7
22	20	40	36	36	77	306	176	45	14	9.0	9.7	10
23	20	38	31	43	81	175	133	56	11	8.9	8.9	9.5
24	20	35	36	186	87	127	368	59	9.6	9.1	8.1	8.6
25	21	31	49	154	81	103	853	45	8.7	9.4	7.7	8.2
26	56	28	61	101	72	88	340	35	7.9	9.2	7.3	8.4
27	48	27	49	75	62	79	204	93	9.1	8.8	7.6	7.9
28	39	27	43	65	59	237	157	174	27	8.7	7.3	7.5
29	32	65	40	53	---	157	125	98	43	8.6	8.3	7.3
30	45	72	36	51	---	105	104	152	25	8.5	8.2	7.3
31	44	---	30	70	---	98	---	186	---	8.4	8.0	---
TOTAL	929.4	1796	1304	2160	2574	4789	6884	2287	1091.3	305.3	275.5	219.0
MEAN	30.0	59.9	42.1	69.7	91.9	154	229	73.8	36.4	9.85	8.89	7.30
MAX	81	167	100	306	352	476	865	186	119	17	22	10
MIN	7.4	25	22	21	45	62	61	35	7.9	8.4	7.3	5.2
CFSM	1.00	2.00	1.40	2.32	3.06	5.13	7.63	2.46	1.21	.33	.30	.24
IN.	1.15	2.23	1.62	2.68	3.19	5.94	8.54	2.84	1.35	.38	.34	.27
CAL YR 1982	TOTAL	25523.9	MEAN 69.9	MAX 1960	MIN 3.8	CFSM 2.33	IN 31.65					
WTR YR 1983	TOTAL	24614.5	MEAN 67.4	MAX 865	MIN 5.2	CFSM 2.25	IN 30.52					

THAMES RIVER BASIN

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.--155 mi² (401 km²) rev.

WATER-DISCHARGE RECORDS

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.68), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage).--52 years, 272 ft³/s, (7.703 m³/s), 23.85 in/yr (606 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) Sept. 4, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft³/s (68.0 m³/s) Apr. 20, gage height, 6.06 ft (1.847 m); minimum, 7.0 ft³/s (0.20 m³/s) Sept. 12, gage height, 2.06 ft (0.628 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	81	213	164	302	323	816	1110	707	137	36	25
2	109	61	202	155	278	609	560	1050	574	117	45	17
3	73	67	185	149	1050	885	403	1030	500	101	42	17
4	58	117	173	136	1530	853	642	1040	532	88	61	17
5	54	232	158	112	1340	747	770	1090	520	86	54	19
6	54	224	158	195	1060	616	662	853	445	94	45	23
7	81	185	152	235	770	603	547	549	389	88	38	49
8	117	155	139	235	642	718	462	400	333	80	38	42
9	345	136	133	220	553	1020	541	400	290	68	34	32
10	271	128	131	199	503	1280	578	352	255	62	31	26
11	239	114	117	1200	400	1380	965	323	230	56	32	19
12	206	100	114	1040	320	1110	816	309	207	52	52	15
13	167	354	100	725	300	1160	1070	295	193	49	61	17
14	167	349	90	770	350	1340	1220	286	183	45	54	22
15	170	278	100	711	363	1250	979	272	207	42	49	34
16	179	252	170	515	327	1130	578	309	286	41	45	29
17	136	424	264	440	340	1010	911	384	286	38	41	23
18	109	179	256	370	462	629	979	347	204	36	59	27
19	95	243	235	300	457	642	1410	309	166	34	68	22
20	90	275	213	250	418	931	1970	295	140	31	57	41
21	79	202	195	230	388	952	1690	300	120	54	49	26
22	69	170	170	230	368	824	1760	277	104	49	44	54
23	61	97	161	298	358	1010	1050	337	99	42	41	44
24	54	145	167	468	358	1310	1120	526	81	23	36	41
25	60	152	179	522	345	1430	1580	451	74	41	32	38
26	102	139	232	497	331	1250	1470	378	61	45	31	34
27	77	131	228	435	314	952	1520	445	62	32	27	27
28	97	120	220	358	310	808	1470	520	131	31	26	23
29	97	202	213	323	---	1080	1320	463	159	34	52	19
30	69	220	192	294	---	965	1220	707	149	34	54	19
31	73	---	176	306	---	878	---	797	---	32	31	---
TOTAL	3672	5532	5436	12082	14537	29695	31079	16204	7687	1762	1365	841
MEAN	118	184	175	390	519	958	1036	523	256	56.8	44.0	28.0
MAX	345	424	264	1200	1530	1430	1970	1110	707	137	68	54
MIN	54	61	90	112	278	323	403	272	61	23	26	15
(†)	-0.6	+2.8	-0.8	+1.5	+0.7	+23.2	+90.2	-105	-7.5	-2.8	-1.8	-0.3
‡MEAN	117	187	174	392	520	981	1126	418	248	54.0	42.2	27.7
‡CFSM	0.75	1.21	1.12	2.53	3.35	6.33	7.26	2.70	1.60	0.35	0.27	0.18
‡IN	0.86	1.35	1.29	2.92	3.49	7.30	8.10	3.11	1.78	0.40	0.31	0.20

CAL YR 1982 TOTAL 127768 MEAN 350 MAX 2490 MIN 29 ‡MEAN 350 ‡CFSM 2.26 ‡IN 30.61
WTR YR 1983 TOTAL 129892 MEAN 356 MAX 1970 MIN 15 ‡MEAN 356 ‡CFSM 2.30 ‡IN 31.11

† 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.

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--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), 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1959 to September 1960, October 1968 to September 1969.

pH: October 1959 to September 1960, October 1968 to September 1969.

WATER TEMPERATURES: October 1959 to September 1960, October 1968 to September 1969.

DISSOLVED OXYGEN: October 1959 to September 1960, October 1968 to September 1969.

INSTRUMENTATION.--Multiple parameter water-quality monitor located on right bank 50 ft upstream from bridge on Massachusetts State Highway 131, 0.2 miles upstream from State line, 0.4 mile upstream from gaging station, 2.0 miles southwest of Dudley, Massachusetts.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 308 micromhos Jan. 31, 1969; minimum, 49 micromhos April 2, 1960.

pH: Maximum, 7.7 units June 14, 1969; minimum, 5.8 units July 18, 1969.

WATER TEMPERATURE: Maximum, 30.5°C July 16, 1969; minimum, 0.0°C on many days during December to March.

DISSOLVED OXYGEN: Maximum, 15.1 mg/L Dec. 28, 1968; minimum, 1.4 mg/L Sept. 7, 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 19...	1000	96	116	7.2	8.5	9.5	3.0	11.6	102	190	140
NOV 16...	0945	260	113	6.9	0.5	4.5	1.0	13.3	101	240	520
DEC 15...	1030	98	134	7.1	5.0	1.0	2.8	14.5	102	46	96
JAN 13...	1030	735	92	6.8	-4.0	1.0	1.0	14.3	102	150	760
MAR 02...	1010	530	108	6.3	5.5	3.0	0.5	13.6	104	360	540
APR 14...	1000	1180	80	6.8	10.0	9.0	1.7	12.3	106	40	K16
MAY 23...	1330	355	89	7.3	25.0	18.0	1.7	11.3	116	500	360
JUN 15...	0910	200	95	6.8	27.0	24.0	1.2	8.4	100	1600	12000
JUL 13...	0920	48	138	7.0	24.5	24.5	1.0	8.3	100	80	4000
AUG 10...	0855	33	154	6.8	19.0	22.0	0.6	8.0	92	180	6800
SEP 06...	1115	22	168	7.2	29.5	24.5	1.7	9.1	108	140	1000

DATE	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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	--	--	--	--	--	10	16	--	76	26	0.1
NOV 16...	22	12	6.0	1.7	10	10	15	7.5	77	47	0.1
DEC 15...	--	--	--	--	--	11	17	--	80	28	0.11
JAN 13...	16	9	4.3	1.3	7.0	9.0	14	6.5	64	39	0.09
MAR 02...	--	--	--	--	--	12	17	--	63	29	0.09
APR 14...	--	--	--	--	--	6.0	12	--	48	18	0.06
MAY 23...	20	10	5.2	1.6	10	9.0	14	4.4	74	41	0.1
JUN 15...	--	--	--	--	--	8.0	14	--	65	22	0.09
JUL 13...	25	11	6.8	2.0	14	9.0	23	3.9	85	54	0.12
AUG 10...	--	--	--	--	--	10	25	--	87	35	0.12
SEP 06...	--	--	--	--	--	16	27	--	94	43	0.13

THAMES RIVER BASIN

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	19.6	75	0.28	0.02	0.3	0.23	0.67	0.9	1.2	0.27
NOV 16...	54.1	80	0.18	0.02	0.2	0.09	0.51	0.6	0.8	0.09
DEC 15...	21.1	82	0.29	0.01	0.3	0.32	0.88	1.20	1.5	0.28
JAN 13...	127	68	0.29	<0.01	0.3	0.03	0.07	0.1	0.4	0.15
MAR 02...	90.2	78	0.39	<0.01	0.4	0.07	0.43	0.5	0.9	0.07
APR 14...	153	56	0.09	<0.01	0.1	<0.01	0.29	0.3	0.4	0.04
MAY 23...	70.9	76	0.09	0.01	0.1	0.08	0.82	0.9	1.0	0.05
JUN 15...	35.1	74	0.18	0.02	0.2	0.14	0.46	0.6	0.8	0.14
JUL 13...	10.9	91	0.64	0.06	0.7	0.17	0.53	0.7	1.4	0.42
AUG 10...	7.8	103	0.64	0.06	0.7	0.17	1.0	1.20	1.9	0.42
SEP 06...	5.6	104	0.88	0.02	0.9	0.03	0.87	0.9	1.8	0.78

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	0.24	1	<1	7	--	<1	--	2	10	6.5
NOV 16...	0.04	1	<1	4	310	<1	44	<1	12	7.1
DEC 15...	0.22	1	<1	8	--	9	--	1	10	4.3
JAN 13	0.03	<1	5	1	140	1	32	1	13	4.5
MAR 02...	0.03	1	6	2	--	4	--	4	10	2.7
APR 14...	0.02	<1	1	6	--	5	--	2	10	3.8
MAY 23...	0.04	1	<1	10	290	2	34	1	6.00	4.3
JUN 15...	0.10	1	<1	6	--	<1	--	2	10	5.2
JUL 13...	0.38	<1	<1	12	450	8	36	5	11	5.7
AUG 10...	0.36	1	<1	16	--	1	--	1	20	4.7
SEP 06...	0.64	1	<1	11	--	<1	--	1	10	4.0

THAMES RIVER BASIN

51

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.68), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--17 years, 315 ft³/s (8.921 m³/s), 24.87 in/yr (632 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,690 ft³/s (76.2 m³/s) Jan. 29, 1979, gage height, 6.99 ft (2.131 m); minimum, no flow part of many days 1970, 1972, 1975, 1976, 1979, 1981 (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, 2,010 ft³/s (56.9 m³/s) Apr. 27, gage height, 6.30 ft (1.920 m); minimum, 2.7 ft³/s (0.076 m³/s) regulated, July 16, gage height, 1.41 ft (0.430 m); minimum daily, 12 ft³/s (0.34 m³/s) July 17, regulated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	85	228	196	364	383	933	1110	784	182	14	152
2	113	83	224	183	250	499	573	1020	744	167	14	107
3	105	74	213	176	340	724	449	1010	600	148	14	22
4	80	85	200	165	1220	918	597	1000	598	130	15	21
5	66	194	190	151	1570	876	730	1000	621	117	181	21
6	60	267	179	162	1210	694	740	997	554	117	136	21
7	63	234	176	233	948	619	720	811	498	117	72	21
8	91	195	167	254	677	597	690	490	452	111	38	22
9	219	172	159	254	575	661	661	479	400	100	20	19
10	279	155	153	233	494	1060	465	463	312	84	20	17
11	276	143	143	405	441	1140	155	429	289	84	20	17
12	267	126	139	522	371	513	593	412	287	19	20	17
13	218	229	124	501	360	802	1280	397	278	19	20	17
14	190	401	113	825	397	1190	1480	385	253	19	20	17
15	181	364	115	993	444	1610	1110	373	244	19	20	17
16	186	313	137	877	412	1460	500	387	291	15	20	17
17	174	346	247	732	381	1160	804	426	359	12	20	17
18	143	327	277	477	504	721	1170	162	308	25	20	17
19	121	224	263	360	541	97	890	126	257	32	54	17
20	109	283	243	285	495	300	813	217	223	33	70	17
21	101	252	225	268	458	583	880	324	194	41	34	17
22	88	215	206	274	438	507	1510	362	171	63	19	18
23	76	161	188	300	426	1550	1470	397	156	51	54	145
24	68	149	183	452	427	1130	535	566	140	95	60	198
25	63	161	194	552	422	1560	1250	574	124	184	65	106
26	91	163	225	579	401	1570	1710	500	115	42	40	58
27	102	156	256	521	383	1160	1930	499	94	45	19	42
28	95	146	248	439	374	772	1840	615	125	26	19	34
29	109	174	238	379	---	1170	1690	568	198	14	19	28
30	96	231	227	353	---	1090	1490	660	194	14	31	25
31	87	---	212	351	---	1020	---	783	---	14	46	---
TOTAL	4020	6108	6092	12452	15323	28136	29658	17542	9863	2139	1214	1264
MEAN	130	204	197	402	547	908	989	566	329	69.0	39.2	42.1
MAX	279	401	277	993	1570	1610	1930	1110	784	184	181	198
MIN	60	74	113	151	250	97	155	126	94	12	14	17
(†)	-1.0	+6.4	-1.2	+3.9	+1.2	+37.7	+96.2	-119	-18.4	-4.4	+8.0	-12.8
MEAN†	129	210	196	406	548	946	1085	447	311	64.6	47.2	293
CFSM†	0.75	1.22	1.14	2.36	3.19	5.50	6.31	2.60	1.81	0.38	0.27	0.17
IN ‡	0.86	1.36	1.31	2.72	3.32	6.34	7.04	3.00	2.02	0.44	0.31	0.19

CAL YR 1982 TOTAL 129717 MEAN 355 MAX 2090 MIN 10 MEAN† 355 CFSM† 2.06 IN† 28.05
WTR YR 1983 TOTAL 133811 MEAN 367 MAX 1930 MIN 12 MEAN† 367 CFSM† 2.13 IN† 28.91

† 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

01125150 FRENCH RIVER AT MECHANICSVILLE, CT

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

DRAINAGE AREA.--107 mi² (277 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 19...	1100	44	200	7.3	15.0	9.0	3.0	9.5	82	84	520
NOV 16...	1045	323	130	7.1	3.5	6.0	1.0	13.0	103	3400	20000
DEC 15...	1140	72	185	7.3	6.0	1.5	2.9	14.3	102	840	2200
JAN 13...	1240	742	235	7.1	-1.0	2.0	2.6	14.6	107	240	24000
MAR 02...	1120	400	137	7.1	5.0	3.5	0.7	13.2	102	1100	1900
APR 14...	1050	700	86	7.0	11.5	10.0	1.1	12.2	107	100	260
MAY 23...	1245	223	106	7.3	24.0	18.0	1.6	9.4	97	180	1100
JUN 15...	1045	61	137	7.0	30.0	24.0	1.3	9.1	108	120	6000
JUL 13...	1035	35	163	7.2	28.0	24.0	1.4	8.6	102	310	2000
AUG 10...	0940	34	233	7.0	21.0	22.0	1.0	7.8	90	1100	6900
SEP 06...	1220	4.0	355	7.4	30.0	24.5	1.8	8.6	102	340	3100

DATE	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 LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	--	--	--	--	--	25	19	--	125	44	0.17
NOV 16...	23	9	7.1	1.3	14	13	15	5.5	78	51	0.11
DEC 15...	--	--	--	--	--	19	18	--	115	37	0.16
JAN 13...	19	7	5.8	1.1	12	12	17	5.2	88	48	0.12
MAR 02...	--	--	--	--	--	18	18	--	76	36	0.1
APR 14...	--	--	--	--	--	8.0	11	--	53	19	0.07
MAY 23...	20	8	6.3	1.1	12	10	11	3.2	69	39	0.09
JUN 15...	--	--	--	--	--	19	14	--	100	33	0.14
JUL 13...	30	10	9.3	1.7	20	18	19	4.4	114	65	0.16
AUG 10...	--	--	--	--	--	36	21	--	150	57	0.2
SEP 06...	--	--	--	--	--	52	31	--	211	83	0.29

THAMES RIVER BASIN

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01125150 FRENCH RIVER AT MECHANICSVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	14.9	117	1.7	0.05	1.8	0.14	1.2	1.30	3.1	0.23
NOV 16...	68.0	82	0.59	0.01	0.6	0.14	0.66	0.8	1.4	0.11
DEC 15...	22.4	129	1.6	0.02	1.6	0.43	0.67	1.10	2.7	0.15
JAN 13...	176	98	0.48	0.02	0.5	0.10	0.6	0.7	1.2	0.20
MAR 02...	82.1	92	0.68	0.02	0.7	0.17	0.23	0.4	1.1	0.08
APR 14...	100	60	0.29	0.01	0.3	0.13	0.37	0.5	0.8	0.07
MAY 23...	41.5	78	0.68	0.02	0.7	0.19	0.61	0.8	1.5	0.17
JUN 15...	16.5	98	1.1	0.03	1.1	0.05	0.55	0.6	1.7	0.21
JUL 13...	10.6	114	1.7	0.03	1.7	<0.01	0.89	0.9	2.6	0.62
AUG 10...	13.6	154	2.1	0.02	2.1	0.05	1.4	1.40	3.5	0.54
SEP 06...	2.3	227	2.6	<0.01	2.6	0.03	1.1	1.10	3.7	0.46

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	0.21	1	<1	8	--	<1	--	2	20	6.5
NOV 16...	0.05	1	<1	4	220	1	27	9	15	5.9
DEC 15...	0.13	6	<1	2	--	2	--	3	10	6.0
JAN 13...	0.20	2	<1	1	140	2	44	1	<4.00	4.2
MAR 02...	0.04	<1	10	2	--	3	--	5	10	4.3
APR 14...	0.03	<1	4	8	--	3	--	3	10	4.9
MAY 23...	0.11	1	<1	22	310	6	27	7	5.00	5.2
JUN 15...	0.07	1	5	4	--	<1	--	2	10	5.4
JUL 13...	0.57	<1	<1	21	320	4	34	1	8.00	7.2
AUG 10...	0.53	<1	<1	8	--	2	--	2	20	7.1
SEP 06...	0.44	1	<1	12	--	<1	--	2	10	8.1

THAMES RIVER BASIN

01125415 MUDDY BROOK AT CHILDS HILL ROAD NEAR WOODSTOCK, CT

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

DRAINAGE AREA.--20.2 mi² (52.3 km²) rev.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurements April 1962 to September 1962, July 19, 1978 to October 30, 1978; November 1978 to current year (discontinued).

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft³/s (37.7 m³/s) June 6, 1982, gage height, 7.51 ft (2.289 m); minimum, 0.9 ft³/s (0.025 m³/s) Sept. 3, 1980; minimum gage height, 1.78 ft (0.543 m) Aug. 4, 1981.

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 mi (6.6 km) downstream, 35.8 mi³ (92.7 km³). 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, about 700 ft³/s (about 19.8 m³/s) April 11, gage height, about 6.2 ft (about 1.89 m); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 12; gage height, 1.94 ft (0.591 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	12	27	18	48	43	51	69	80	13	1.9	2.6
2	2.2	13	23	16	46	91	48	66	63	11	2.8	2.4
3	2.2	15	21	13	379	108	56	63	54	9.9	2.1	2.2
4	2.2	22	21	8.5	265	76	70	71	74	13	4.7	1.9
5	2.1	61	19	7.6	101	63	66	70	72	19	6.3	1.9
6	2.1	49	19	28	72	56	52	61	44	12	4.5	1.8
7	2.0	33	18	33	63	58	42	56	38	9.6	3.5	1.6
8	3.6	25	15	27	63	63	44	52	33	7.2	3.0	1.5
9	53	22	14	22	58	177	52	56	28	6.0	2.5	1.4
10	42	19	10	19	58	115	161	51	25	5.0	2.4	1.4
11	27	18	10	343	56	109	423	48	23	4.3	2.4	1.2
12	21	17	9.0	187	50	188	166	48	22	4.0	4.2	1.1
13	17	72	8.5	82	46	116	99	47	20	3.5	3.7	1.3
14	17	69	7.2	61	46	83	84	47	17	3.5	3.1	1.4
15	15	58	8.5	52	42	68	80	46	16	3.4	2.9	1.3
16	13	48	25	46	39	61	77	52	16	3.3	2.7	1.3
17	12	36	45	46	46	56	118	62	16	2.8	2.6	1.3
18	11	31	27	42	79	50	91	52	14	2.4	4.2	1.6
19	12	28	22	32	71	230	231	45	13	2.0	5.2	1.5
20	14	25	20	36	56	271	452	45	12	1.9	3.8	1.4
21	13	23	19	36	48	130	173	46	12	2.4	3.0	1.3
22	12	22	18	36	48	192	112	42	11	4.3	2.9	3.5
23	12	21	18	42	49	102	94	53	9.9	3.0	2.8	2.3
24	11	19	19	78	53	78	176	78	8.7	3.4	2.6	2.0
25	15	18	24	76	49	66	394	60	9.3	3.7	2.5	1.7
26	27	16	39	61	42	58	170	48	9.0	3.4	2.4	1.5
27	22	16	30	50	37	53	112	65	9.0	2.7	2.1	1.3
28	19	17	25	46	39	104	94	76	21	2.4	2.6	1.2
29	16	34	23	37	---	100	83	58	25	2.2	2.9	1.1
30	14	33	21	36	---	66	76	118	17	2.2	2.7	1.1
31	13	---	19	44	---	58	---	120	---	2.0	2.6	---
TOTAL	447.3	892	624.2	1661.1	2049	3089	3947	1871	811.9	168.5	97.6	49.1
MEAN	14.4	29.7	20.1	53.6	73.2	99.6	132	60.4	27.1	5.44	3.15	1.64
MAX	53	72	45	343	379	271	452	120	80	19	6.3	3.5
MIN	2.0	12	7.2	7.6	37	43	42	42	8.7	1.9	1.9	1.1
CFSM	.71	1.47	1.00	2.65	3.62	4.93	6.54	2.99	1.34	.27	.16	.08
IN.	.82	1.64	1.15	3.06	3.77	5.69	7.27	3.45	1.50	.31	.18	.09

CAL YR 1982 TOTAL 14750.9 MEAN 40.4 MAX 1050 MIN 1.8 CFSM 2.00 IN 27.16
WTR YR 1983 TOTAL 15707.7 MEAN 43.0 MAX 452 MIN 1.1 CFSM 2.13 IN 28.93

THAMES RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1980 to April 1983 (discontinued).

WATER-QUALITY RECORD.--May 1980 to April 1983 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: May 1980 to April 1983 (discontinued).

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

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

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 163 mg/L Feb. 3, 1983; minimum daily mean, 1 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 196 tons (178 Mg) June 6, 1982; minimum daily, 0 ton (0 Mg) on numerous days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 163 mg/L Feb. 3; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 168 tons (153 Mg) Feb. 3; minimum daily, 0 ton (0 Mg) on numerous days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	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)
NOV 05...	1030	314	121	6.7	0.48	0.02	0.5	0.08	1.2	1.30
FEB 03...	1100	587	77	6.7	0.78	0.02	0.8	0.21	0.99	1.20
MAR 19...	0930	130	93	6.9	1.1	0.01	1.1	0.29	0.51	0.8
MAR 19...	1600	382	78	6.8	0.79	0.01	0.8	0.31	0.49	0.8
APR 24...	1415	350	93	6.5	0.99	0.01	1.0	0.17	0.53	0.7

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS, HYDRO- LYZABLE DIS. (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 05...	1.8	0.19	0.08	0.12	0.37	0.00	0.08	0.00	22	19
FEB 03...	2.0	0.29	0.09	0.11	0.34	0.00	0.09	0.00	265	420
MAR 19...	1.9	0.11	0.07	0.07	0.21	0.00	0.07	0.00	164	58
MAR 19...	1.6	0.10	0.07	0.06	0.18	0.00	0.06	0.01	103	106
APR 24...	1.7	0.18	0.05	0.06	0.18	0.00	0.05	0.00	28	26

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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	2.9	1	.00	12	2	.06	27	1	.07
2	2.2	2	.01	13	3	.11	23	1	.06
3	2.2	1	.00	15	3	.12	21	1	.06
4	2.2	3	.02	22	6	.36	21	1	.06
5	2.1	3	.02	61	22	3.7	19	1	.05
6	2.1	3	.02	49	14	1.9	19	1	.05
7	2.0	3	.02	33	10	.89	18	1	.05
8	3.6	4	.04	25	9	.61	15	1	.04
9	53	38	5.4	22	8	.48	14	3	.11
10	42	9	1.0	19	9	.46	10	5	.14
11	27	5	.36	18	9	.44	10	6	.16
12	21	4	.23	17	7	.32	9.0	6	.15
13	17	4	.18	72	35	6.9	8.5	6	.14
14	17	5	.23	69	11	2.0	7.2	6	.12
15	15	3	.12	58	6	.94	8.5	5	.11
16	13	2	.07	48	2	.26	25	8	.54
17	12	3	.10	36	1	.10	45	12	1.5
18	11	4	.12	31	1	.08	27	5	.36
19	12	3	.10	28	1	.08	22	4	.24
20	14	4	.15	25	1	.07	20	6	.32
21	13	2	.07	23	1	.06	19	6	.31
22	12	2	.06	22	1	.06	18	8	.39
23	12	2	.06	21	1	.06	18	9	.44
24	11	2	.06	19	1	.05	19	10	.51
25	15	2	.08	18	1	.05	24	9	.58
26	27	2	.15	16	1	.04	39	12	1.3
27	22	2	.12	16	1	.04	30	11	.89
28	19	2	.10	17	1	.05	25	6	.41
29	16	2	.09	34	1	.09	23	6	.37
30	14	2	.08	33	1	.09	21	5	.28
31	13	2	.07	---	---	---	19	4	.21
TOTAL	447.3	---	9.13	892	---	20.47	624.2	---	10.02
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	18	5	.24	48	4	.52	43	3	.35
2	16	4	.17	46	3	.37	70	51	12
3	13	3	.11	379	163	168	85	20	5.8
4	8.5	5	.11	265	54	45	76	6	1.2
5	7.6	5	.10	101	30	8.2	63	3	.51
6	28	12	.91	72	13	2.5	56	1	.15
7	33	10	.89	63	12	2.0	58	1	.16
8	27	8	.58	63	6	1.0	63	2	.34
9	22	5	.30	58	9	1.4	177	44	24
10	19	5	.26	58	12	1.9	115	28	10
11	343	84	78	56	12	1.8	109	11	3.2
12	187	49	23	50	11	1.5	188	22	10
13	82	19	4.2	46	11	1.4	116	12	3.8
14	61	15	2.5	46	10	1.2	83	5	1.1
15	52	11	1.5	42	10	1.1	68	5	.92
16	46	10	1.2	39	9	.95	61	4	.66
17	46	8	.99	46	11	1.4	56	3	.45
18	42	6	.68	79	13	2.8	50	4	.54
19	32	4	.35	71	11	2.1	230	146	91
20	36	4	.39	56	9	1.4	271	48	35
21	36	4	.39	48	6	.78	130	22	7.7
22	36	4	.39	48	5	.65	192	36	19
23	42	7	.79	49	5	.66	102	10	2.8
24	78	26	5.5	53	6	.86	78	5	1.1
25	76	16	3.3	49	4	.53	66	5	.89
26	61	7	1.2	42	2	.23	58	3	.47
27	50	4	.54	37	2	.20	53	5	.72
28	46	5	.62	39	2	.21	104	30	10
29	37	4	.40	---	---	---	100	10	2.7
30	36	3	.29	---	---	---	66	4	.71
31	44	4	.48	---	---	---	58	2	.31
TOTAL	1661.1	---	130.38	2049	---	250.66	3045	---	247.58

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	51	1	.14	69	6	1.1	80	9	1.9
2	48	2	.26	66	5	.89	63	6	1.0
3	56	4	.60	63	4	.68	54	7	1.0
4	70	4	.76	71	5	.96	74	18	3.7
5	66	2	.36	70	5	.95	72	8	1.6
6	52	1	.14	61	5	.82	44	4	.48
7	42	2	.23	56	5	.76	38	5	.51
8	44	2	.24	52	6	.84	33	4	.36
9	52	4	.56	56	7	1.1	28	5	.38
10	117	55	25	51	8	1.1	25	5	.34
11	423	83	87	48	7	.91	23	4	.25
12	166	19	9.0	48	6	.78	22	6	.36
13	99	7	1.9	47	6	.76	20	7	.38
14	84	4	.91	47	6	.76	17	5	.23
15	80	2	.43	46	7	.87	16	4	.17
16	77	3	.62	52	8	1.1	16	4	.17
17	118	7	2.2	62	10	1.7	16	5	.22
18	91	3	.74	52	5	.70	14	6	.23
19	231	28	30	45	4	.49	13	5	.18
20	452	30	34	45	6	.73	12	5	.16
21	173	6	2.8	46	4	.50	12	6	.19
22	112	3	.91	42	3	.34	11	6	.18
23	94	2	.51	53	7	1.0	9.9	6	.16
24	176	45	22	78	18	3.8	8.7	6	.14
25	394	26	28	60	10	1.6	9.3	5	.13
26	170	11	5.0	48	6	.78	9.0	4	.10
27	112	4	1.2	65	13	2.4	9.0	3	.07
28	94	5	1.3	76	11	2.3	21	11	.68
29	83	5	1.1	58	7	1.1	25	11	.74
30	76	5	1.0	118	132	42	17	7	.32
31	---	---	---	120	18	6.1	---	---	---
TOTAL	3903	---	258.91	1871	---	79.92	811.9	---	16.33
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	13	7	.25	1.9	5	.03	2.6	3	.02
2	11	7	.21	2.8	6	.05	2.4	4	.03
3	9.9	6	.16	2.1	6	.03	2.2	4	.02
4	13	10	.35	4.7	8	.10	1.9	3	.02
5	19	9	.46	6.3	10	.17	1.9	2	.01
6	12	5	.16	4.5	9	.11	1.8	2	.00
7	9.6	4	.10	3.5	7	.07	1.6	3	.01
8	7.2	7	.14	3.0	7	.06	1.5	2	.00
9	6.0	9	.15	2.5	7	.05	1.4	3	.01
10	5.0	9	.12	2.4	5	.03	1.4	3	.01
11	4.3	6	.07	2.4	5	.03	1.2	3	.00
12	4.0	7	.08	4.2	5	.06	1.1	2	.00
13	3.5	6	.06	3.7	5	.05	1.3	3	.01
14	3.5	7	.07	3.1	4	.03	1.4	2	.00
15	3.4	6	.06	2.9	5	.04	1.3	4	.01
16	3.3	8	.07	2.7	4	.03	1.3	4	.01
17	2.8	8	.06	2.6	5	.04	1.3	4	.01
18	2.4	6	.04	4.2	5	.06	1.6	4	.02
19	2.0	5	.03	5.2	4	.06	1.5	3	.01
20	1.9	5	.03	3.8	5	.05	1.4	3	.01
21	1.9	11	.10	3.0	4	.03	1.3	3	.01
22	4.3	11	.13	2.9	4	.03	3.5	4	.04
23	3.0	5	.04	2.8	3	.02	2.3	1	.00
24	3.4	2	.02	2.6	3	.02	2.0	1	.00
25	3.7	1	.00	2.5	4	.03	1.7	1	.00
26	3.4	2	.02	2.4	4	.03	1.5	1	.00
27	2.7	4	.03	2.1	4	.02	1.3	1	.00
28	2.4	4	.03	2.6	3	.02	1.2	1	.00
29	2.2	4	.02	2.9	3	.02	1.1	1	.00
30	2.2	4	.02	2.7	3	.02	1.1	1	.00
31	2.0	5	.03	2.6	3	.02	---	---	---
TOTAL	168.0	---	3.11	97.6	---	1.41	49.1	---	0.26
YEAR	15619.2		1028.18						

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.--713 mi² (1,847 km²) rev.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, (see p. 68), by Lake Chaubunagungamaug, estimated usable capacity, 207,000,000 ft³ (5,860,000 m³) and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage).--65 years, 1,281 ft³/s (36.28 m³/s), 24.40 in/yr (620 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s (306 m³/s) Apr. 25, gage height, 15.32 ft (4.670 m); minimum, 39 ft³/s (1.10 m³/s) Sept. 17, gage height, 3.60 ft (1.097 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	436	1320	1050	2000	2020	3470	4640	3700	796	161	154
2	330	436	1230	1000	1960	2490	3050	3960	3130	708	163	256
3	318	444	1170	950	3130	3590	2560	3740	2630	627	152	220
4	295	525	1130	900	5560	3890	2970	3630	2680	544	150	140
5	260	1120	1040	800	5480	3770	2990	3610	3160	497	277	130
6	243	1680	1020	900	4610	3250	2820	3310	2750	525	461	126
7	234	1390	1030	1100	3810	2870	2640	3000	2330	501	330	159
8	240	1160	954	1300	3210	2820	2590	2490	2040	449	237	152
9	763	980	915	1400	2640	3860	3210	2140	1790	410	199	134
10	1260	872	796	1300	2290	4590	3470	1980	1540	373	170	110
11	1090	779	750	1800	1940	5190	8710	1900	1340	322	166	94
12	915	684	700	2100	1670	5180	6970	1760	1300	322	234	103
13	813	1260	678	2700	1800	5020	5850	1720	1170	250	347	130
14	741	2450	620	2490	1880	4700	5520	1690	1100	228	299	128
15	708	2180	650	2720	1900	4640	4990	1620	1030	222	240	111
16	696	1970	750	2790	1940	4700	3710	1740	1130	217	204	83
17	633	1690	1300	2470	1970	4150	4010	2060	1220	206	189	40
18	579	1640	1500	1670	2960	3700	4540	2020	1160	194	199	41
19	525	1410	1400	915	3330	4280	5780	1840	1050	196	247	48
20	479	1270	1300	605	3040	5790	10100	1740	947	191	256	47
21	479	1240	1200	525	2620	5070	8530	1810	774	180	243	47
22	474	1080	1100	466	2510	5510	6500	1740	720	240	199	97
23	420	1010	1000	554	2430	5190	6210	1710	672	225	166	168
24	380	878	1000	2380	2470	5240	5860	1910	595	225	168	231
25	405	878	1100	3720	2460	4790	10200	2070	534	314	187	273
26	539	790	1200	3460	2300	4850	9250	1910	501	334	173	196
27	584	807	1400	3100	2150	4500	7450	1990	497	214	175	157
28	569	779	1300	2700	1970	4540	6580	2840	690	204	146	142
29	564	1010	1250	2200	---	4970	5850	2470	1050	201	168	128
30	559	1380	1200	2000	---	4530	5250	2690	928	182	148	124
31	479	---	1150	2000	---	3920	---	4090	---	168	146	---
TOTAL	16904	34228	33153	54065	76030	133610	161630	75820	44158	10265	6600	3969
MEAN	545	1141	1069	1744	2715	4310	5388	2446	1472	331	213	132
MAX	1260	2450	1500	3720	5560	5790	10200	4640	3700	796	461	273
MIN	234	436	620	466	1670	2020	2560	1620	497	168	146	40
(†)	+1.9	+8.0	-1.2	+4.5	+0.8	+45.5	+147	-170	-25.5	-7.3	+6.7	-17.1
MEAN ‡	547	1149	1068	1748	2716	4356	5535	2276	1446	324	220	115
CFSM ‡	0.77	1.61	1.50	2.45	3.81	6.11	7.76	3.19	2.03	0.45	0.31	0.16
IN ‡	0.89	1.80	1.73	2.82	3.97	7.04	8.66	3.68	2.26	0.52	0.36	0.18

CAL YR 1982 TOTAL 616606 MEAN 1689 MAX 15200 MIN 185 MEAN ‡ 1689 CFSM ‡ 2.37 IN ‡ 32.18
WTR YR 1983 TOTAL 650432 MEAN 1782 MAX 10200 MIN 40 MEAN ‡ 1781 CFSM ‡ 2.50 IN ‡ 33.91

† 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. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 140 micromhos Aug. 20, 21; minimum, 55 micromhos Apr. 25.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 6; minimum, 0.0°C Feb. 14-15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, DIS- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 19...	1315	530	102	7.5	19.0	12.0	4.0	11.8	109	1200	600	--
NOV 16...	1300	1950	89	7.1	7.0	6.5	2.0	12.6	101	1100	4400	20
DEC 15...	1345	738	114	7.2	8.5	2.0	3.2	16.0	115	1500	1100	--
JAN 13...	1445	2880	85	6.9	0.5	4.0	2.5	14.5	111	640	18000	19
MAR 02...	1330	2500	94	7.0	8.0	4.5	0.5	14.6	114	220	140	--
APR 14...	1400	5500	70	6.9	10.5	10.0	1.4	12.4	108	500	500	--
MAY 23...	1030	1700	80	7.2	25.0	17.5	1.6	10.4	106	460	580	19
JUN 15...	1315	1030	93	7.3	32.0	24.5	1.0	9.0	107	180	1900	--
JUL 13...	1315	249	108	8.9	30.0	27.0	1.0	10.0	126	240	1500	28
AUG 10...	1315	170	155	9.8	25.0	26.5	9.0	10.8	129	80	11000	--
SEP 06...	1315	122	155	9.8	30.0	28.0	13	10.9	135	140	580	--

DATE	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 19...	--	--	--	--	--	--	10	10	--	--	66
NOV 16...	9	5.9	1.3	8.6	1.6	11	13	9.6	<0.1	7.4	61
DEC 15...	--	--	--	--	--	--	14	11	--	--	78
JAN 13...	10	5.6	1.2	6.8	1.8	9.0	12	9.9	<0.1	6.6	55
MAR 02...	--	--	--	--	--	--	12	12	--	--	51
APR 14...	--	--	--	--	--	--	8.0	8.8	--	--	48
MAY 23...	8	5.5	1.2	5.8	1.3	11	10	8.1	<0.1	3.7	53
JUN 15...	--	--	--	--	--	--	10	11	--	--	65
JUL 13...	10	8.2	1.7	10	1.8	18	16	13	0.2	5.2	87
AUG 10...	--	--	--	--	--	--	21	16	--	--	93
SEP 06...	--	--	--	--	--	--	16	18	--	--	83

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 19...	20	0.09	94.4	65	0.49	<0.01	0.5	--	0.06	--	0.44
NOV 16...	55	0.08	321	71	0.49	0.01	0.5	0.38	0.16	0.11	0.74
DEC 15...	25	0.11	155	85	0.79	0.01	0.8	--	0.15	--	0.35
JAN 13...	50	0.08	428	74	0.49	<0.01	0.5	0.52	0.09	0.09	0.11
MAR 02...	24	0.07	344	67	0.59	<0.01	0.6	--	0.07	--	0.23
APR 14...	17	0.06	713	58	0.39	0.01	0.4	--	0.04	--	0.46
MAY 23...	43	0.07	243	65	0.49	0.01	0.5	0.47	0.04	0.04	0.66
JUN 15...	21	0.09	181	74	0.49	0.01	0.5	--	0.02	--	0.88
JUL 13...	67	0.12	58.5	67	0.39	0.01	0.4	0.4	0.04	0.05	0.76
AUG 10...	37	0.13	42.7	123	0.09	<0.01	<0.1	--	0.01	--	2.1
SEP 06...	34	0.11	27.3	116	0.08	0.02	<0.1	--	0.11	--	1.5

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 19...	0.5	1.0	0.07	0.05	--	--	--	--	--	1	1
NOV 16...	0.9	1.4	0.09	0.06	0.04	50	1	<1.00	16.00	<1	<1
DEC 15...	0.5	1.3	0.10	0.08	--	--	--	--	--	1	3
JAN 13...	0.2	0.7	0.20	0.06	0.03	70	1	<1.00	13.00	1	<1
MAR 02...	0.3	0.9	0.04	0.02	--	--	--	--	--	1	<1
APR 14...	0.5	0.9	0.07	0.07	--	--	--	--	--	2	2
MAY 23...	0.7	1.2	0.08	0.05	0.03	<10	1	<0.50	13.00	<1	1
JUN 15...	0.9	1.4	0.07	0.04	--	--	--	--	--	2	<1
JUL 13...	0.8	1.2	0.13	0.09	0.04	70	1	<0.50	--	1	<1
AUG 10...	2.10	2.2	0.20	0.14	--	--	--	--	--	2	<1
SEP 06...	1.60	1.7	0.25	0.11	--	--	--	--	--	3	<1

THAMES RIVER BASIN

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01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGANESE, DIS- SOLVED (UG/L AS MN)
OCT 19...	1	3	--	9.00	4	520	--	10	<1	--	--
NOV 16...	1	<1	<3.00	15	5	430	250	7.00	2	<4.00	23
DEC 15...	<1	<1	--	12	1	420	--	2.00	3	--	--
JAN 13...	25	3	<3.00	5.00	2	560	140	5.00	7	<4.00	28
MAR 02...	4	8	--	6.00	2	280	--	13	3	--	--
APR 14...	3	2	--	11	6	440	--	9.00	7	--	--
MAY 23...	<1	4	<3.00	6.00	9	540	240	4.00	2	<4.00	29
JUN 15...	14	11	--	4.00	1	630	--	2.00	<1	--	--
JUL 13...	<1	<1	<3.00	7.00	4	510	200	10	4	<4.00	7
AUG 10...	6	<1	--	4.00	6	550	--	8.00	1	--	--
SEP 06...	3	<1	--	19	11	660	--	6.00	<1	--	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRONTIUM, DIS- SOLVED (UG/L AS SR)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	--	--	6.00	3	--	--	--	--	20	<10	6.2
NOV 16...	<0.1	<10	5.00	1	<1	<1	28	<6.0	30	8.00	5.1
DEC 15...	--	--	2.00	2	--	--	--	--	10	<10	5.1
JAN 13...	0.6	<10	2.00	1	1	<1	29	<6.0	20	10	--
MAR 02...	--	--	1.00	3	--	--	--	--	30	10	3.2
APR 14...	--	--	5.00	3	--	--	--	--	20	10	4.6
MAY 23...	0.1	<10	1.00	1	<1	<1	30	<6.0	10	<3.00	4.4
JUN 15...	--	--	3.00	1	--	--	--	--	20	<10	4.7
JUL 13...	0.5	<10	5.00	1	<1	<1	43	<6.0	20	<3.00	7.5
AUG 10...	--	--	3.00	2	--	--	--	--	20	10	6.5
SEP 06...	--	--	2.00	<1	--	--	--	--	--	10	5.6

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 16...	1300	1950	12	63	65
JAN 13...	1445	2880	12	93	100
MAY 23...	1030	1700	4	18	44
JUL 13...	1315	249	14	9.4	45

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	72	69	70	98	95	97	---	---	---			
2	73	70	72	101	97	99	---	---	---			
3	75	73	74	106	101	103	---	---	---			
4	75	73	74	112	105	109	---	---	---			
5	74	71	72	122	111	118	---	---	---			
6	74	72	73	127	117	120	127	112	122			
7	75	71	73	125	116	118	139	126	133			
8	77	74	76	122	116	118	136	133	134			
9	78	75	77	119	115	117	---	---	---			
10	79	76	78	118	114	116	---	---	---			
11	80	77	79	113	111	112	---	---	---			
12	80	77	78	115	110	114	117	109	111			
13	82	79	81	113	104	108	115	110	113			
14	87	81	84	106	101	104	112	110	111			
15	90	86	88	107	103	105	113	108	111			
16	94	88	90	109	102	106	112	110	111			
17	94	90	92	---	---	---	---	---	---			
18	96	89	91	---	---	---	---	---	---			
19	99	95	97	---	---	---	120	106	113			
20	99	97	98	---	---	---	140	120	132			
21	101	98	100	---	---	---	140	116	125			
22	101	99	100	108	106	107	---	---	---			
23	103	98	100	110	105	108	---	---	---			
24	106	100	102	116	98	106	---	---	---			
25	106	103	104	113	102	107	---	---	---			
26	106	103	104	112	107	110	---	---	---			
27	108	104	106	---	---	---	---	---	---			
28	106	101	103	---	---	---	---	---	---			
29	101	96	98	---	---	---	---	---	---			
30	96	94	95	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	108	69	88	127	95	110	140	106	120			
YEAR	140	55	90									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

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.--89.3 mi² (231 km²) rev.

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). WDR CT-82-1: 1979, 1980(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. Water-quality data available for water years 1958, 1968-80, and suspended-sediment data available for water years 1975-80.

AVERAGE DISCHARGE.--53 years, 165 ft³/s (4.673 m³/s), 25.10 in/yr (638 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; maximum gage height, 14.88 ft (4.535 m) June 6, 1982; minimum discharge, 2.2 ft³/s (0.062 m³/s) Aug. 30, 1963; minimum gage height, 0.41 ft (0.123 m) Oct. 13, 1930; minimum daily discharge, 2.3 ft³/s (0.065 m³/s) Aug. 30, 1963.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	1030	1730 49.0	6.86 2.091	Apr. 11	0200	*5210 148	*10.79 3.289
Feb. 3	1130	1740 49.3	7.08 2.158	17	0430	1520 43.0	6.64 2.024
Mar. 9	0730	1260 35.7	6.13 1.868	19	2130	4230 120	10.06 3.066
20	0030	2470 70.0	8.41 2.563	24	2030	3600 102	9.54 2.908

a From rating curve extended above 2,400 ft³/s (68 m³/s) on basis of contracted-opening measurement of peak flow.

Minimum discharge, 6.1 ft³/s (0.17 m³/s) Sept. 7, gage height, 0.89 ft (0.271 m).

REVISIONS.--The maximum discharges for water years 1979 and 1982 have been revised to 7,680 ft³/s (217 m³/s) Jan. 21, 1979, gage height, 12.49 ft (3.807 m), and 9,850 ft³/s (279 m³/s) June 6, 1982, gage height, 14.88 ft (4.535 m), superseding figures published in the reports for 1979 and 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	136	96	288	273	255	337	369	58	9.9	9.6
2	21	26	114	92	251	528	228	305	251	47	9.9	8.8
3	11	29	102	89	1180	510	281	286	193	42	8.5	7.6
4	21	50	98	79	952	359	445	323	456	37	8.8	6.7
5	15	257	94	76	453	312	337	351	470	34	11	6.5
6	15	229	102	136	286	275	263	271	286	55	14	6.5
7	15	125	106	182	255	294	225	230	208	44	12	6.3
8	15	83	91	144	283	395	269	208	175	34	9.9	20
9	29	64	84	118	249	1100	546	212	147	29	8.3	24
10	51	56	76	103	225	726	863	201	132	24	7.6	24
11	36	45	74	1160	200	534	3420	178	128	22	7.8	23
12	24	46	72	797	200	837	1200	170	110	21	46	24
13	9.1	387	70	366	190	681	646	162	90	19	54	27
14	11	430	68	224	185	439	459	155	77	17	27	29
15	11	253	68	193	180	339	377	164	67	16	17	33
16	9.6	182	222	180	180	288	395	207	59	15	15	44
17	8.3	132	412	170	251	261	1260	261	54	14	14	48
18	7.6	108	237	160	537	253	769	201	51	13	13	50
19	7.6	114	158	160	490	1790	1790	161	51	13	13	51
20	7.6	102	138	150	361	1750	2660	189	48	13	11	51
21	7.8	95	129	150	303	936	1240	225	43	12	9.3	49
22	7.8	91	119	142	305	944	769	181	38	13	8.5	73
23	12	89	114	182	327	587	552	203	34	11	7.8	56
24	16	85	125	808	379	423	1690	195	29	17	7.3	51
25	21	79	158	671	349	318	2360	159	26	20	7.6	45
26	84	77	177	430	298	271	1160	136	24	19	29	41
27	78	73	142	288	249	251	741	342	27	16	34	36
28	50	69	123	222	243	741	546	522	150	14	34	31
29	37	177	119	200	---	600	445	305	168	13	41	27
30	31	193	105	189	---	371	384	448	87	11	16	26
31	27	---	98	275	---	292	---	577	---	11	11	---
TOTAL	722.4	3772	3931	8232	9649	17678	26575	7865	4048	724	523.2	935.0
MEAN	23.3	126	127	266	345	570	886	254	135	23.4	16.9	31.2
MAX	84	430	412	1160	1180	1790	3420	577	470	58	54	73
MIN	7.6	26	68	76	180	251	225	136	24	11	7.3	6.3
CFSM	.26	1.41	1.42	2.98	3.86	6.38	9.92	2.84	1.51	.26	.19	.35
IN.	.30	1.57	1.64	3.43	4.02	7.36	11.07	3.28	1.69	.30	.22	.39

CAL YR 1982 TOTAL 81844.4 MEAN 224 MAX 8690 MIN 7.6 CFSM 2.51 IN 34.09
WTR YR 1983 TOTAL 84654.6 MEAN 232 MAX 3420 MIN 6.3 CFSM 2.60 IN 35.26

THAMES RIVER BASIN

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.

REMARKS.--Stream tidal and salinity affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	SALIN- ITY (PPT)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV											
18...	1310	1.0	5000	7.2	3.0	10.5	6.0	1.0	11.8	95	800
18...	1315	23.0	46000	7.9	30.0	10.5	12.5	1.0	6.3	70	54
JAN											
18...	1340	1.0	5400	7.2	3.0	<-5.0	0.5	2.2	14.9	103	620
18...	1355	20.0	46000	7.9	30.0	<-5.0	6.0	2.2	9.4	91	K11
MAR											
08...	1000	1.0	9000	7.6	5.0	3.0	5.0	1.5	12.3	96	840
08...	1010	20.0	48700	8.0	33.0	3.0	4.0	1.0	1.8	14	80
MAY											
19...	0850	1.0	4800	7.3	3.0	17.0	13.0	0.5	10.0	94	580
19...	0900	20.0	45000	7.9	29.0	17.0	9.0	0.6	7.2	72	44
JUL											
14...	1200	1.0	19000	8.0	11.0	28.5	25.0	0.3	10.0	128	160
14...	1210	20.0	42000	7.6	27.0	28.5	19.0	0.4	5.0	63	K1
SEP											
06...	1230	1.0	23000	8.6	14.0	36.0	26.0	3.0	10.8	144	1000
06...	1245	20.0	40000	7.6	26.0	36.0	21.0	1.5	1.2	16	25

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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)
NOV											
18...	680	490	470	37	96	19	850	1400	6.9	2900	2400
18...	140	4400	4300	110	990	97	2200	17000	0.9	30300	20400
JAN											
18...	520	490	470	34	97	18	230	1600	7.0	2960	1980
18...	120	5300	5200	130	1200	100	2200	16000	1.1	24700	19600
MAR											
08...	500	--	--	--	--	--	450	2800	--	5160	3250
08...	120	--	--	--	--	--	1800	14000	--	21900	15800
MAY											
19...	53	450	430	32	90	20	170	130	5.0	2920	439
19...	230	4600	4500	290	950	94	1800	--	1.0	29300	3100
JUL											
14...	300	1900	1800	120	380	49	1400	6300	3.4	11100	8230
14...	240	4800	4700	300	980	95	2000	15000	1.1	27700	18300
SEP											
06...	5300	--	--	--	--	--	790	7500	--	14000	8290
06...	960	--	--	--	--	--	1300	16000	--	30100	17300

THAMES RIVER BASIN

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01127701 THAMES RIVER NEAR MOHEGAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
NOV										
18...	3.9	3010	0.19	<0.01	0.2	0.11	0.59	0.7	0.9	0.06
18...	41.2	31700	0.09	0.01	<0.1	0.20	0.4	0.6	0.7	0.08
JAN										
18...	4.0	3030	0.29	0.01	0.3	0.10	0.1	0.2	0.5	0.12
18...	33.6	25800	0.09	<0.01	<0.1	0.14	0.06	0.2	0.3	0.31
MAR										
08...	7.0	5750	0.49	<0.01	0.5	0.06	0.14	0.2	0.7	0.04
08...	29.8	30400	0.09	<0.01	<0.1	0.09	0.11	0.2	0.3	0.05
MAY										
19...	4.0	3060	0.29	<0.01	0.3	0.07	0.33	0.4	0.7	0.05
19...	39.8	31100	0.09	<0.01	<0.1	0.16	0.24	0.4	0.5	0.08
JUL										
14...	15.1	11800	0.09	0.01	<0.1	0.05	0.55	0.6	0.7	0.06
14...	37.7	30300	0.08	0.02	<0.1	0.16	0.44	0.6	0.7	0.09
SEP										
06...	19.0	14400	0.15	0.05	0.2	<0.01	0.89	0.9	1.1	0.14
06...	40.9	31100	0.07	0.03	0.1	0.37	0.43	0.8	0.9	0.18

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV										
18...	0.03	<1	<1	2	170	<1	20	2	10	6.7
18...	0.05	<1	<1	3	140	6	50	<1	40	2.8
JAN										
18...	0.03	1	<1	6	100	1	<10	1	10	4.1
18...	0.05	5	<1	4	140	5	60	2	40	2.9
MAR										
08...	0.02	1	<1	1	--	7	--	3	10	2.7
08...	0.03	<1	4	1	--	3	--	4	20	2.2
MAY										
19...	0.02	2	2	3	100	1	20	1	<10	3.5
19...	0.05	1	1	3	120	1	40	1	30	1.0
JUL										
14...	0.03	3	<1	6	60	7	30	7	10	5.0
14...	0.07	1	<1	2	170	5	50	5	30	2.8
SEP										
06...	0.06	1	<1	--	--	3	--	3	20	4.7
06...	0.14	1	<1	--	--	3	--	3	20	2.7

RESERVOIRS IN THAMES RIVER BASIN

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

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	01119259 STAFFORDVILLE RESERVOIR	01121500 MANSFIELD HOLLOW LAKE	01123350 EAST BRIMFIELD LAKE	01123550 WESTVILLE LAKE
Sept. 30, 1982.....	57.2	116.8	106.0	5.0
Oct. 31.....	75.5	48.8	104.4	4.9
Nov. 30.....	75.5	178.0	111.0	5.6
Dec. 31.....	75.5	109.0	109.3	5.2
Jan. 31, 1983.....	75.5	134.9	112.6	6.0
Feb. 28.....	75.5	110.9	114.3	6.1
Mar. 31.....	75.5	189.5	158.6	23.9
Apr. 30.....	75.5	487.9	379.2	37.2
May 31.....	75.5	300.0	124.4	9.6
June 30.....	75.5	151.6	109.3	5.3
July 31.....	75.5	112.8	102.7	4.4
Aug. 31.....	74.5	112.8	101.1	1.3
Sept. 30.....	69.3	109.0	101.1	0.4

Date	01124150 WEST THOMPSON LAKE	01124300 HODGES VILLAGE RESERVOIR	01124400 BUFFUMVILLE LAKE
Sept. 30, 1982.....	60.7	0.5	55.8
Oct. 31.....	59.6	0.5	63.6
Nov. 30.....	69.0	1.1	67.1
Dec. 31.....	68.0	1.1	67.1
Jan. 31, 1983.....	74.3	1.1	68.8
Feb. 28.....	75.3	1.1	68.0
Mar. 31.....	114.2	4.3	85.8
Apr. 30.....	129.6	86.0	135.7
May 31.....	94.1	9.1	74.3
June 30.....	65.9	0.5	64.5
July 31.....	61.7	0.5	56.6
Aug. 31.....	87.8	0.4	53.2
Sept. 30.....	55.4	0.4	42.3

CONNECTICUT RIVER BASIN

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01183994 FRESHWATER BROOK AT ENFIELD, CT

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

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--April 30 1980 to current year.

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

REMARKS.--Records good. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 720 ft³/s (about 17.0 m³/s) Feb. 20, 1981.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft³/s (13.0 m³/s) April 19, gage height, 4.65 ft (1.417 m).

DATE: APR. 11, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	369	043000	392	084500	338	130000	250	171500	181	213000	143
003000	370	044500	392	090000	336	131500	246	173000	179	214500	141
004500	374	050000	390	091500	330	133000	241	174500	176	220000	140
010000	380	051500	388	093000	324	134500	237	180000	174	221500	137
011500	380	053000	386	094500	320	140000	231	181500	170	223000	135
013000	384	054500	386	100000	313	141500	225	183000	168	224500	134
014500	386	060000	382	101500	307	143000	221	184500	167	230000	132
020000	388	061500	378	103000	303	144500	217	190000	164	231500	131
021500	388	063000	374	104500	297	150000	213	191500	162	233000	129
023000	392	064500	372	110000	291	151500	209	193000	161	234500	128
024500	392	070000	369	111500	285	153000	207	194500	158	240000	125
030000	394	071500	365	113000	281	154500	203	200000	156		
031500	392	073000	363	114500	275	160000	199	201500	153		
033000	396	074500	357	120000	269	161500	197	203000	152		
034500	394	080000	353	121500	265	163000	193	204500	149		
040000	398	081500	349	123000	260	164500	189	210000	147		
041500	396	083000	343	124500	256	170000	185	211500	146		

DATE: APR. 10, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	18	043000	16	084500	15	130000	24	171500	132	213000	326
003000	17	044500	16	090000	14	131500	26	173000	141	214500	332
004500	17	050000	15	091500	14	133000	30	174500	150	220000	341
010000	17	051500	16	093000	15	134500	37	180000	159	221500	341
011500	17	053000	15	094500	15	140000	37	181500	168	223000	349
013000	17	054500	15	100000	15	141500	44	183000	177	224500	355
014500	17	060000	15	101500	16	143000	54	184500	191	230000	357
020000	17	061500	15	103000	17	144500	60	190000	203	231500	363
021500	17	063000	15	104500	18	150000	70	191500	219	233000	369
023000	16	064500	15	110000	18	151500	80	193000	231	234500	370
024500	16	070000	15	111500	19	153000	86	194500	246	240000	374
030000	16	071500	15	113000	20	154500	96	200000	260		
031500	16	073000	15	114500	21	160000	107	201500	271		
033000	16	074500	14	120000	21	161500	112	203000	285		
034500	16	080000	14	121500	21	163000	115	204500	297		
040000	16	081500	14	123000	21	164500	121	210000	305		
041500	16	083000	14	124500	22	170000	126	211500	318		

01183994 FRESHWATER BROOK AT ENFIELD, CT--Continued

DATE: APR. 12, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	129	043000	101	084500	80	130000	64	171500	50	213000	37
003000	128	044500	100	090000	79	131500	63	173000	48	214500	36
004500	125	050000	99	091500	77	133000	63	174500	48	220000	36
010000	124	051500	97	093000	76	134500	63	180000	47	221500	34
011500	121	053000	96	094500	76	140000	61	181500	47	223000	34
013000	119	054500	93	100000	75	141500	60	183000	45	224500	33
014500	118	060000	92	101500	74	143000	59	184500	45	230000	33
020000	117	061500	90	103000	74	144500	57	190000	44	231500	33
021500	114	063000	90	104500	72	150000	59	191500	44	233000	32
023000	112	064500	89	110000	71	151500	56	193000	42	234500	31
024500	112	070000	86	111500	70	153000	56	194500	42	240000	31
030000	111	071500	86	113000	69	154500	54	200000	41		
031500	110	073000	85	114500	69	160000	54	201500	41		
033000	108	074500	84	120000	69	161500	53	203000	40		
034500	107	080000	83	121500	67	163000	51	204500	40		
040000	104	081500	81	123000	66	164500	51	210000	38		
041500	103	083000	81	124500	65	170000	51	211500	37		

DATE: APR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	34	043000	34	084500	53	130000	140	171500	349	213000	449
003000	34	044500	36	090000	54	131500	149	173000	361	214500	447
004500	33	050000	38	091500	57	133000	161	174500	365	220000	451
010000	33	051500	38	093000	61	134500	176	180000	376	221500	451
011500	33	053000	41	094500	64	140000	183	181500	386	223000	455
013000	33	054500	42	100000	69	141500	199	183000	394	224500	459
014500	33	060000	44	101500	75	143000	213	184500	402	230000	455
020000	32	061500	44	103000	80	144500	231	190000	408	231500	457
021500	32	063000	45	104500	89	150000	252	191500	416	233000	455
023000	32	064500	47	110000	97	151500	262	193000	424	234500	453
024500	32	070000	48	111500	103	153000	275	194500	426	240000	453
030000	32	071500	50	113000	111	154500	285	200000	428		
031500	32	073000	50	114500	117	160000	299	201500	436		
033000	32	074500	50	120000	118	161500	309	203000	438		
034500	32	080000	50	121500	124	163000	324	204500	447		
040000	33	081500	50	123000	128	164500	334	210000	447		
041500	34	083000	50	124500	135	170000	341	211500	444		

DATE: APR. 20, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	451	043000	384	084500	297	130000	219	171500	162	213000	128
003000	455	044500	382	090000	293	131500	215	173000	161	214500	126
004500	449	050000	376	091500	287	133000	209	174500	158	220000	124
010000	447	051500	370	093000	281	134500	205	180000	156	221500	124
011500	447	053000	365	094500	277	140000	203	181500	153	223000	121
013000	436	054500	361	100000	273	141500	199	183000	152	224500	119
014500	440	060000	355	101500	267	143000	195	184500	149	230000	118
020000	432	061500	349	103000	263	144500	191	190000	147	231500	117
021500	432	063000	343	104500	260	150000	187	191500	144	233000	115
023000	424	064500	340	110000	256	151500	185	193000	143	234500	114
024500	418	070000	336	111500	250	153000	181	194500	141	240000	114
030000	416	071500	330	113000	246	154500	177	200000	140		
031500	412	073000	326	114500	241	160000	176	201500	138		
033000	406	074500	320	120000	237	161500	172	203000	135		
034500	398	080000	316	121500	231	163000	168	204500	134		
040000	394	081500	307	123000	227	164500	167	210000	132		
041500	390	083000	305	124500	223	170000	164	211500	131		

CONNECTICUT RIVER BASIN

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420002072355001 RAIN GAGE AT HIGGINS SCHOOL AT ENFIELD, CT

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

PERIOD OF RECORD.--July 9, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.35 in (8.89 mm) Sept. 17, 1980; maximum for 15 minutes, 0.64 in (16.3 mm) Sept. 17, 1980; maximum for 30 minutes, 0.90 in (22.9 mm) Aug. 5, 1981; maximum hourly, 1.20 in (30.5 mm) Sept. 8, 1981; maximum daily recorded, 2.62 in (66.5 mm) Aug. 9, 1982; maximum daily, 5.88 in (149 mm) June 5, 1982, at site 6.6 mi (10.6 km) southwest at Bradley International Airport.

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

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.21 in (5.33 mm) Aug. 4; maximum for 15 minutes, 0.48 in (12.2 mm) Aug. 4; maximum for 30 minutes, 0.80 in (20.3 mm) Aug. 4; maximum hourly, 1.02 in (25.9 mm) Aug. 4; maximum daily, 2.53 in (64.3 mm) Apr. 10.

DATE: OCT. 8, 1982

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
041500	0.01	074500	0.000	111500	0.000	144500	0.02	181500	0.000	214500	0.46
043000	0.000	080000	0.000	113000	0.000	150000	0.13	183000	0.000	220000	0.33
044500	0.000	081500	0.000	114500	0.000	151500	0.000	184500	0.000	221500	0.07
050000	0.000	083000	0.000	120000	0.000	153000	0.000	190000	0.000	223000	0.01
051500	0.000	084500	0.000	121500	0.000	154500	0.000	191500	0.000	224500	0.000
053000	0.000	090000	0.000	123000	0.000	160000	0.000	193000	0.000	230000	0.000
054500	0.000	091500	0.000	124500	0.000	161500	0.000	194500	0.01	231500	0.000
060000	0.01	093000	0.000	130000	0.000	163000	0.000	200000	0.01	233000	0.03
061500	0.000	094500	0.000	131500	0.000	164500	0.000	201500	0.000		
063000	0.000	100000	0.000	133000	0.000	170000	0.000	203000	0.000		
064500	0.000	101500	0.000	134500	0.000	171500	0.000	204500	0.000		
070000	0.000	103000	0.000	140000	0.000	173000	0.000	210000	0.000		
071500	0.000	104500	0.000	141500	0.000	174500	0.000	211500	0.000		
073000	0.000	110000	0.000	143000	0.000	180000	0.000	213000	0.02		

DATE: OCT. 9, 1982

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
004500	0.12	040000	0.000	071500	0.000	103000	0.000	134500	0.000	170000	0.000
010000	0.11	041500	0.000	073000	0.000	104500	0.000	140000	0.000	171500	0.000
011500	0.06	043000	0.000	074500	0.000	110000	0.000	141500	0.000	173000	0.000
013000	0.14	044500	0.000	080000	0.000	111500	0.000	143000	0.000	174500	0.000
014500	0.10	050000	0.000	081500	0.000	113000	0.000	144500	0.000	180000	0.000
020000	0.18	051500	0.000	083000	0.000	114500	0.000	150000	0.000	181500	0.000
021500	0.09	053000	0.000	084500	0.000	120000	0.000	151500	0.000	183000	0.000
023000	0.04	054500	0.12	090000	0.000	121500	0.000	153000	0.000	184500	0.000
024500	0.000	060000	0.06	091500	0.000	123000	0.000	154500	0.000	190000	0.000
030000	0.000	061500	0.04	093000	0.000	124500	0.000	160000	0.000	191500	0.000
031500	0.000	063000	0.000	094500	0.000	130000	0.000	161500	0.000	193000	0.000
033000	0.000	064500	0.000	100000	0.06	131500	0.000	163000	0.000	194500	0.000
034500	0.000	070000	0.000	101500	0.01	133000	0.000	164500	0.000		

420002072355001 RAIN GAGE AT HIGGINS SCHOOL AT ENFIELD, CT--Continued

DATE: APR. 10, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
094500	0.01	121500	0.01	144500	0.07	171500	0.04	194500	0.07	221500	0.01
100000	0.02	123000	0.000	150000	0.09	173000	0.06	200000	0.06	223000	0.01
101500	0.01	124500	0.000	151500	0.06	174500	0.07	201500	0.08	224500	0.000
103000	0.02	130000	0.02	153000	0.08	180000	0.08	203000	0.09	230000	0.02
104500	0.03	131500	0.03	154500	0.11	181500	0.08	204500	0.08		
110000	0.05	133000	0.06	160000	0.07	183000	0.07	210000	0.07		
111500	0.03	134500	0.07	161500	0.09	184500	0.04	211500	0.03		
113000	0.000	140000	0.10	163000	0.11	190000	0.02	213000	0.01		
114500	0.000	141500	0.11	164500	0.07	191500	0.07	214500	0.04		
120000	0.01	143000	0.03	170000	0.04	193000	0.02	220000	0.01		

DATE: APR. 19, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
030000	0.01	060000	0.000	090000	0.000	120000	0.000	150000	0.06	180000	0.03
031500	0.01	061500	0.000	091500	0.01	121500	0.02	151500	0.07	181500	0.02
033000	0.02	063000	0.000	093000	0.10	123000	0.03	153000	0.03	183000	0.03
034500	0.02	064500	0.000	094500	0.10	124500	0.02	154500	0.04	184500	0.01
040000	0.03	070000	0.000	100000	0.07	130000	0.02	160000	0.02	190000	0.02
041500	0.02	071500	0.000	101500	0.14	131500	0.06	161500	0.02	191500	0.02
043000	0.02	073000	0.000	103000	0.16	133000	0.07	163000	0.03	193000	0.01
044500	0.03	074500	0.000	104500	0.11	134500	0.06	164500	0.01	194500	0.000
050000	0.03	080000	0.000	110000	0.07	140000	0.02	170000	0.02	200000	0.01
051500	0.02	081500	0.000	111500	0.04	141500	0.03	171500	0.02		
053000	0.000	083000	0.000	113000	0.05	143000	0.05	173000	0.03		
054500	0.000	084500	0.000	114500	0.04	144500	0.05	174500	0.02		

DATE: AUG. 4, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
064500	0.05	083000	0.000	101500	0.000	120000	0.000	134500	0.000	153000	0.05
070000	0.05	084500	0.000	103000	0.000	121500	0.000	140000	0.000	154500	0.47
071500	0.000	090000	0.000	104500	0.000	123000	0.000	141500	0.000	160000	0.30
073000	0.000	091500	0.000	110000	0.000	124500	0.000	143000	0.000	161500	0.20
074500	0.17	093000	0.000	111500	0.000	130000	0.000	144500	0.000	163000	0.03
080000	0.07	094500	0.000	113000	0.000	131500	0.000	150000	0.000	164500	0.009
081500	0.06	100000	0.000	114500	0.000	133000	0.000	151500	0.000		

CONNECTICUT RIVER BASIN

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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 63.6 (kilometer 102.3).

DRAINAGE AREA.--9,660 mi², (25,019 km²) rev.

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 The Dexter Corporation. 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 The Dexter Corporation. Flow regulated by power plants, by diversion from Chicopee River basin and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir, and other reservoirs, combined usable capacity, about 107 billion ft³ (3.03 billion m³).

AVERAGE DISCHARGE.--55 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 (5.06m), from floodmarks; minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84,800 ft³/s (2,400 m³/s) Apr. 27, gage height, 5.58 ft (1.701 m); minimum daily, 1,320 ft³/s (37.4 m³/s) Nov. 1.

REVISIONS.--Revised daily, monthly, and yearly discharges, in cubic feet per second, for water year 1982, are given below. These figures supercede those published in the report for 1982.

Month	Day	Value	Month	Total	Mean	Max	Water year	Total	Mean
January	17	12,600	January	422,820	13,640	23,800	1982	6,580,060	18,030

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4080	1320	8610	14000	13100	11800	21900	59700	48300	8000	4550	10600
2	3020	4400	9960	13200	14300	14800	20800	59800	44100	7750	9790	10000
3	1730	4450	10800	11100	23100	25700	23500	69500	39100	4920	8620	4650
4	2580	5990	12900	10800	39100	28100	27500	76100	36800	4260	8080	3240
5	5010	9520	12700	10400	39700	26300	27200	73300	36800	5020	8170	2750
6	3490	12400	11900	9150	33000	23900	26700	69400	31900	12300	5740	3540
7	4230	13600	11200	9110	26700	21800	26300	60400	29300	12100	3480	6380
8	3770	13300	11000	7990	23400	22800	28900	49500	31300	12100	3220	6180
9	7690	14300	11900	6880	20200	28900	40300	40000	28100	10500	6420	2940
10	6470	14000	8120	7130	18200	31400	40300	40300	26200	5920	7400	2570
11	4130	9780	7950	16700	17900	32000	56000	43800	22100	5150	8990	2390
12	5520	5930	4370	30400	15200	38100	65000	41600	18200	8940	11700	2370
13	6220	11900	4970	28200	12600	39800	64600	40300	13300	7680	12500	2440
14	6200	14800	9670	21100	13300	34000	57300	37100	15000	7600	11000	2810
15	5850	14900	9110	16900	16700	30900	49000	30600	15300	6020	8080	2690
16	3790	14000	8540	13200	17100	32000	47500	30400	14100	4880	8880	2410
17	1710	11900	12300	13100	16400	31600	49600	32900	12000	4000	8260	2430
18	1870	9860	15300	14700	17400	29600	52100	31100	14300	3290	6780	2750
19	5200	9460	14400	14100	14400	40900	56400	32400	12900	6100	6920	2750
20	6770	9520	13300	13500	12400	63300	78400	27400	11300	6110	5940	3600
21	6260	7980	12300	11100	11900	71200	67300	25000	12400	6000	4850	5610
22	5440	9260	12700	10600	12600	73100	60100	24000	12400	5840	3920	8750
23	3420	10200	11700	9840	13900	62100	53800	24400	11400	3300	5090	10300
24	2230	10600	9340	14600	15800	56600	49200	30900	10400	2860	5100	5570
25	2130	11100	9090	21900	14600	45500	64400	37500	8970	3740	4010	3330
26	5450	11200	9810	22100	12600	37800	77900	32300	5050	5500	2910	2850
27	4470	10700	11400	19700	11100	30600	83600	35100	5260	5740	2460	4800
28	3060	9320	15100	18400	10700	30200	80700	44000	11900	5050	2460	5680
29	2400	11100	14900	17200	---	29500	72100	40000	11400	5650	3560	5690
30	2400	12500	14200	15500	---	29000	64100	36100	8790	4160	5760	5690
31	1930	---	14100	14300	---	27200	---	38800	---	3010	6460	---
TOTAL	128520	309290	343640	456900	507400	1100500	1532500	1313700	598370	193490	201100	137760
MEAN	4146	10310	11090	14740	18120	35500	51080	42380	19950	6242	6487	4592
MAX	7690	14900	15300	30400	39700	73100	83600	76100	48300	12300	12500	10600
MIN	1710	1320	4370	6880	10700	11800	20800	24000	5050	2860	2460	2370
CAL YR 1982	TOTAL	5737900	MEAN	15720	MAX	103000	MIN	1320				
WTR YR 1983	TOTAL	6823170	MEAN	18690	MAX	83600	MIN	1320				

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 are due to malfunctions of the instrument. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 219 micromhos Oct. 18, 1981; minimum, 46 micromhos April 2, 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, 189 micromhos Jan. 24; minimum, 67 micromhos April 20.

WATER TEMPERATURES: Maximum, 29.0°C July 21; minimum, 0.0°C Feb. 6-14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, (PER- CENT UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 20...	0900	7470	150	7.4	9.0	12.0	2.0	9.6	87	1600	800	--
NOV 15...	1000	13600	124	7.4	5.0	9.0	2.0	10.6	92	3500	3000	42
DEC 14...	0930	8850	136	7.2	0.5	1.0	2.1	13.2	92	5800	6100	--
JAN 12...	0930	28700	84	7.1	3.5	2.0	5.5	13.4	98	1900	14000	23
MAR 07...	0930	20700	91	7.2	5.0	2.5	3.0	13.5	99	960	220	--
APR 13...	0915	63700	65	7.0	11.0	5.5	1.8	13.5	106	150	1200	--
MAY 18...	0900	29900	87	7.3	14.5	11.5	0.7	10.5	95	520	560	30
JUN 14...	0900	15300	114	7.0	25.0	21.5	0.3	7.7	87	3000	1200	--
JUL 12...	0830	8580	137	7.3	24.0	24.5	0.6	8.8	106	680	800	46
AUG 15...	0930	6020	132	7.1	22.0	22.5	0.75	7.6	88	2900	170	--
SEP 02...	0730	10200	144	7.2	16.0	24.0	5.0	7.0	83	120	800	--

DATE	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	--	--	--	--	--	--	12	14	--	--	88
NOV 15...	12	14	1.7	7.1	1.1	30	12	10	<0.1	5.5	73
DEC 14...	--	--	--	--	--	--	14	11	--	--	83
JAN 12...	10	7.0	1.3	4.7	1.3	13	11	8.2	<0.1	5.5	61
MAR 07...	--	--	--	--	--	--	11	9.3	--	--	47
APR 13...	--	--	--	--	0.9	--	6.0	6.4	--	--	41
MAY 18...	10	9.7	1.4	4.5	1.0	20	7.8	5.6	<0.1	5.4	58
JUN 14...	--	--	--	--	--	--	10	9.3	--	--	80
JUL 12...	14	15	2.0	8.9	1.5	32	13	13	0.1	3.6	88
AUG 15...	--	--	--	--	--	--	10	10	--	--	78
SEP 02...	--	--	--	--	--	--	12	12	--	--	96

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 20...	26	0.12	1770	98	0.38	0.02	0.4	--	0.32	--	0.68
NOV 15...	70	0.1	2680	83	0.29	0.01	0.3	0.33	0.15	0.17	0.35
DEC 14...	25	0.11	1980	88	0.49	<0.01	0.5	--	0.32	--	0.28
JAN 12...	47	0.08	4730	--	0.29	0.01	0.3	0.36	0.08	0.07	0.52
MAR 07...	20	0.06	2630	71	0.39	<0.01	0.4	--	0.08	--	0.22
APR 13...	13	0.06	7050	--	0.19	<0.01	0.2	--	<0.01	--	0.19
MAY 18...	48	0.08	4680	62	0.29	<0.01	0.3	0.26	0.05	0.06	0.15
JUN 14...	19	0.11	3300	85	0.29	<0.01	0.3	--	0.26	--	0.34
JUL 12...	77	0.12	2040	78	0.39	<0.01	0.4	0.31	0.09	0.09	0.71
AUG 15...	20	0.11	1270	94	0.39	<0.01	0.4	--	0.08	--	0.92
SEP 02...	24	0.13	2640	91	0.39	0.01	0.4	--	0.27	--	0.43

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 20...	1.00	1.4	0.09	0.07	--	--	--	--	--	1	<1
NOV 15...	0.5	0.8	0.05	0.03	0.02	<10	1	<1.00	20.00	<1	<1
DEC 14...	0.6	1.1	0.09	0.05	--	--	--	--	--	1	3
JAN 12...	0.6	0.9	0.23	0.02	0.02	60	1	<1.00	18.00	2	<1
MAR 07...	0.3	0.7	0.04	0.02	--	--	--	--	--	1	<1
APR 13...	0.2	0.4	0.05	<0.01	--	--	--	--	--	2	<1
MAY 18...	0.2	0.5	0.04	0.03	0.01	80	<1	0.50	18.00	1	1
JUN 14...	0.6	0.9	0.10	0.01	--	--	--	--	--	1	1
JUL 12...	0.8	1.2	0.10	0.06	<0.01	<10	<1	<0.50	--	1	<1
AUG 15...	1.00	1.4	0.06	0.04	--	--	--	--	--	1	<1
SEP 02...	0.7	1.1	0.11	0.08	--	--	--	--	--	1	1

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGANESE, DIS- SOLVED (UG/L AS MN)
OCT 20...	<1	<1	--	10	7	290	--	8.00	<1	--	--
NOV 15...	<1	<1	<3.00	12	2	310	93	1.00	1	<4.00	23
DEC 14...	<1	<1	--	5.00	1	330	--	16	3	--	--
JAN 12...	20	<1	<3.00	9.00	2	1600	130	13	1	<4.00	33
MAR 07...	5	7	--	4.00	2	360	--	14	2	--	--
APR 13...	3	<1	--	7.00	6	1400	--	7.00	3	--	--
MAY 18...	2	<1	3.00	3.00	6	510	99	4.00	<1	4.00	27
JUN 14...	12	<1	--	13	1	360	--	3.00	<1	--	--
JUL 12...	<1	<1	<3.00	9.00	7	270	51	6.00	3	5.00	3
AUG 15...	<1	<1	--	3.00	3	170	--	12	1	--	--
SEP 02...	<1	<1	--	9.00	4	200	--	1.00	<1	--	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRONTIUM, DIS- SOLVED (UG/L AS SR)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	--	--	8.00	8	--	--	--	--	20	10	5.1
NOV 15...	<0.1	<10	6.00	1	<1	<1	59	<6.0	20	<4.00	3.2
DEC 14...	--	--	5.00	3	--	--	--	--	30	<10	4.6
JAN 12...	<0.1	<10	6.00	2	<1	<1	32	<6.0	40	6.00	6.2
MAR 07...	--	--	5.00	6	--	--	--	--	30	10	16
APR 13...	--	--	3.00	5	--	--	--	--	10	<10	3.0
MAY 18...	0.1	10	10	<1	<1	<1	44	6.0	20	3.00	3.5
JUN 14...	--	--	4.00	1	--	--	--	--	40	10	3.8
JUL 12...	0.4	<10	7.00	3	<1	<1	76	<6.0	30	5.00	4.0
AUG 15...	--	--	4.00	1	--	--	--	--	20	10	3.3
SEP 02...	--	--	3.00	10	--	--	--	--	10	10	3.1

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
NOV 15...	1000	<1.9	<0.4	--	3.0	<0.4	2.9	<0.4	0.07	--
APR 13...	0915	<0.7	1.8	1.2	1.1	1.2	1.0	1.1	0.06	0.04

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 15...	1000	13600	15	551	68
JAN 12...	0930	28700	65	5040	76
MAY 18...	0900	29900	19	1530	53
JUL 12...	0830	8580	2	46	100

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	86	84	85	123	119	121	161	159	160	153	150	152
2	84	80	82	126	117	122	166	157	161	152	146	150
3	83	81	83	123	117	120	158	152	156	147	145	146
4	83	81	81	130	118	124	155	151	153	153	147	149
5	81	74	76	134	122	129	158	153	156	156	153	154
6	83	77	80	135	119	128	154	150	152	158	155	156
7	85	83	84	118	112	114	152	149	150	162	158	161
8	85	80	82	115	109	112	153	150	151	161	155	159
9	84	80	82	117	108	113	154	151	153	155	152	153
10	85	83	84	126	117	123	151	147	149	157	153	155
11	89	84	86	136	126	132	147	143	145	161	157	159
12	93	89	90	140	136	138	---	---	---	166	161	162
13	100	94	97	141	132	135	---	---	---	163	160	162
14	103	100	101	140	133	136	---	---	---	160	152	155
15	105	100	103	139	133	136	---	---	---	158	153	155
16	105	101	103	136	133	135	135	132	134	158	156	157
17	113	105	109	139	136	138	139	134	137	158	154	157
18	113	110	112	143	140	141	145	139	143	158	156	157
19	114	110	112	144	141	143	152	146	149	161	158	159
20	117	112	113	147	143	145	146	144	145	159	157	158
21	120	117	119	150	145	148	145	141	144	160	156	158
22	119	112	114	153	149	152	143	139	141	158	153	156
23	119	114	116	152	149	150	145	142	144	158	151	155
24	122	118	119	153	150	151	144	140	142	150	139	146
25	122	117	119	155	152	154	145	142	143	140	134	138
26	121	118	119	154	151	152	146	142	144	143	138	139
27	128	119	123	152	149	150	152	146	148	151	143	148
28	135	124	129	153	149	151	157	152	154	152	148	151
29	131	119	123	153	149	151	160	155	158	158	152	156
30	122	118	120	155	151	153	158	155	156	160	155	157
31	---	---	---	160	155	157	155	150	153	---	---	---
MONTH	135	74	102	160	108	137	166	132	149	166	134	154
YEAR	189	67	118									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

CONNECTICUT RIVER BASIN

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01184100 STONY BROOK NEAR WEST SUFFIELD, CT

LOCATION.--Lat 41°57'38", long 72°42'39", Hartford County, Hydrologic Unit 01080205, on right bank at upstream side of bridge on South Grand Street, 2.1 mi (3.4 km) south of West Suffield.

DRAINAGE AREA.--10.4 mi² (26.9 km²) rev.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1960-81. May 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 149.21 ft (45.479 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft³/s (36.2 m³/s) June 6, 1982, gage height, 5.83 ft (1.777 m); minimum, 0.21 ft³/s (0.006 m³/s) Sept. 9, 10, 12, 1983, gage height, 0.92 ft (0.280 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 17,300 ft³/s (490 m³/s) on basis of slope-area measurement, at site 5.6 mi (9.0 km) downstream, just below State highway 75, drainage area = 36.9 mi² (95.6 km²), Aug. 19, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 544 ft³/s (15.4 m³/s) Apr. 19, gage height, 4.08 ft (1.244 m); minimum, 0.21 ft³/s (0.006 m³/s) Sept. 9, 10, 12, gage height, 0.92 ft (0.280 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.8	9.1	6.0	23	34	34	39	38	5.6	.90	.67
2	1.4	4.1	7.5	5.5	24	123	28	37	24	4.7	2.3	.55
3	.90	4.1	6.8	4.9	225	118	61	35	17	3.8	1.1	.42
4	.90	4.4	7.1	4.3	130	63	107	38	60	3.0	2.3	.36
5	2.0	21	6.4	4.7	70	53	54	36	50	4.1	3.8	.31
6	1.8	17	6.4	26	45	43	38	28	26	7.8	1.8	.31
7	1.0	8.2	6.1	23	30	43	33	22	19	4.4	1.3	.27
8	2.0	6.1	5.1	13	22	58	32	20	17	3.3	1.2	.24
9	63	5.4	4.4	8.6	23	144	49	37	13	2.8	.99	.20
10	38	4.7	3.3	7.1	21	93	96	27	11	2.1	.67	.20
11	11	4.1	3.1	142	20	99	294	21	11	1.8	.99	.20
12	7.1	4.1	3.1	80	14	132	99	19	8.1	2.5	3.3	.20
13	5.4	62	2.8	28	13	89	60	17	7.1	1.6	2.5	.31
14	6.1	55	2.5	15	14	56	45	16	5.6	1.2	1.3	.27
15	5.1	19	3.3	10	15	43	39	18	5.0	1.1	.99	.24
16	3.8	12	23	9.0	17	36	62	36	4.4	.99	.90	.24
17	3.3	9.1	41	8.5	21	38	214	49	4.4	.82	.82	.27
18	3.0	7.9	19	8.0	29	35	102	27	4.4	.74	2.3	.31
19	3.0	8.2	13	8.0	36	197	219	17	4.4	.67	3.6	.27
20	3.5	7.5	7.5	7.5	33	178	264	17	4.1	.74	1.8	.24
21	4.1	5.8	5.0	7.5	30	115	116	17	3.6	.74	1.2	.24
22	4.1	5.8	6.0	7.5	32	141	79	15	3.0	.61	.90	2.8
23	4.1	5.4	6.5	16	30	76	61	67	2.8	.55	.82	1.5
24	4.4	5.4	8.6	94	27	54	116	48	2.3	.74	.67	.90
25	4.7	4.4	16	83	25	45	178	29	2.1	.67	.61	.67
26	13	4.1	18	49	22	39	95	17	2.1	.82	.55	.55
27	9.9	4.4	12	34	21	33	64	76	1.9	.82	.48	.48
28	6.1	3.8	11	17	27	146	52	57	17	.67	.61	.42
29	4.7	17	9.9	15	---	87	44	27	26	.61	.48	.36
30	4.1	15	8.2	14	---	45	43	73	8.9	.61	.55	.36
31	3.8	---	6.8	16	---	36	---	73	---	.55	.61	---
TOTAL	226.70	338.8	288.5	772.1	1039	2492	2778	1055	403.2	61.15	42.34	14.36
MEAN	7.31	11.3	9.31	24.9	37.1	80.4	92.6	34.0	13.4	1.97	1.37	.48
MAX	63	62	41	142	225	197	294	76	60	7.8	3.8	2.8
MIN	.90	3.8	2.5	4.3	13	33	28	15	1.9	.55	.48	.20
CFSM	.70	1.09	.90	2.39	3.57	7.73	8.90	3.27	1.29	.19	.13	.05
IN.	.81	1.21	1.03	2.76	3.72	8.91	9.94	3.77	1.44	.22	.15	.05
CAL YR 1982	TOTAL	8574.20	MEAN	23.5	MAX	910	MIN	.36	CFSM	2.26	IN	30.67
WTR YR 1983	TOTAL	9511.15	MEAN	26.1	MAX	294	MIN	.20	CFSM	2.51	IN	34.02

CONNECTICUT RIVER BASIN

01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to current year.

WATER-QUALITY RECORD.--October 1980 to current year.

PERIOD OF DAILY RECORD.--October 1980 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1981 to current year.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE.--May 1981 to September 1981.

REMARKS.--Records good during periods of low and normal flows, fair during high flows. Data estimated during periods of missing records. Suspended-sediment samples were not collected for the period June 1983 to Sept. 1983.

EXTREMES FOR PERIODS.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 76 mg/L Dec. 8, 1982; minimum daily mean, 1 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 64 tons (58 Mg) June 6, 1982; minimum daily, 0 ton (0 Mg) on numerous days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 76 mg/L Dec. 8; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 34 tons (31 Mg) Apr. 11; minimum daily, 0 ton (0 Mg) on numerous days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV 17...	1515	9.1	270	7.5	9.0	3.5	6.0	12.7	95	540
JAN 12...	1100	76	142	7.0	7.0	2.0	5.5	12.3	90	500
MAR 01...	1410	32	205	7.4	10.5	2.5	1.1	13.8	101	40
MAY 17...	1030	56	180	7.4	12.5	9.0	1.1	10.5	91	6800
JUL 11...	1410	1.9	320	7.5	26.5	19.5	0.75	6.8	73	2100
SEP 01...	1200	0.82	345	7.4	25.0	21.5	1.5	6.0	68	15000

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 LAB (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)
NOV 17...	20000	100	45	28	8.1	58	40	14	10	162
JAN 12...	36000	53	26	14	4.4	27	23	8.1	6.7	116
MAR 01...	520	--	--	--	--	--	31	14	--	114
MAY 17...	12000	77	19	20	6.5	58	16	9.0	7.6	127
JUL 11...	2100	150	50	40	11	95	39	23	10	237
SEP 01...	7100	--	--	--	--	--	35	23	--	217

CONNECTICUT RIVER BASIN

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01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
NOV 17...	135	0.22	4.0	178	0.59	<0.01	0.6	0.09	0.41	0.5
JAN 12...	73	0.16	23.8	124	0.49	0.01	0.5	0.10	0.1	0.2
MAR 01...	45	0.16	9.8	137	0.59	0.01	0.6	0.04	0.46	0.5
MAY 17...	94	0.17	19.1	146	0.29	<0.01	0.3	0.08	0.72	0.8
JUL 11...	180	0.32	1.2	228	1.2	0.01	1.2	0.02	0.38	0.4
SEP 01...	58	0.3	0.48	235	0.78	0.02	0.8	0.08	0.92	1.00

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
NOV 17...	1.1	0.06	0.04	<1	<1	3	<1	6.00	1	370
JAN 12...	0.7	0.17	0.17	1	1	<1	<1	3.00	1	560
MAR 01...	1.1	0.06	0.04	1	<1	5	3	3.00	1	260
MAY 17...	1.1	0.11	0.05	1	2	<1	<1	<1.00	3	990
JUL 11...	1.6	0.12	0.10	1	<1	<1	<1	4.00	6	380
SEP 01...	1.8	0.11	0.09	1	1	<1	<1	5.00	3	320

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	170	2.00	<1	47	1.00	<1	40	5.00	8.4
JAN 12...	170	4.00	2	39	2.00	1	20	6.00	--
MAR 01...	--	9.00	1	--	1.00	2	20	30	4.6
MAY 17...	280	5.00	<1	65	5.00	<1	10	3.00	8.3
JUL 11...	64	9.00	2	68	4.00	2	20	8.00	5.3
SEP 01...	--	3.00	<1	--	1.00	2	30	10	3.7

CONNECTICUT RIVER BASIN

01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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	1.4	2	.00	3.8	3	.03	9.1	6	.15
2	1.4	1	.00	4.1	2	.02	7.5	5	.10
3	.90	1	.00	4.1	2	.02	6.8	7	.13
4	.90	1	.00	4.4	2	.02	7.1	11	.21
5	2.0	2	.01	21	5	.28	6.4	45	.78
6	1.8	1	.00	17	1	.05	6.4	51	.88
7	1.0	2	.00	8.2	2	.04	6.1	76	1.3
8	2.0	5	.05	6.1	1	.02	5.1	57	.78
9	63	32	5.6	5.4	4	.06	4.4	52	.62
10	38	14	1.4	4.7	6	.08	3.3	61	.54
11	11	6	.18	4.1	6	.07	3.1	50	.42
12	7.1	5	.10	4.1	4	.04	3.1	12	.10
13	5.4	5	.07	62	6	1.0	2.8	10	.08
14	6.1	6	.10	55	3	.45	2.5	4	.03
15	5.1	5	.07	19	3	.15	3.3	6	.05
16	3.8	5	.05	12	4	.13	23	14	.94
17	3.3	5	.04	9.1	3	.07	41	12	1.3
18	3.0	5	.04	7.9	3	.06	19	9	.46
19	3.0	5	.04	6.2	2	.04	13	6	.21
20	3.5	5	.05	7.5	2	.04	7.5	6	.12
21	4.1	6	.07	5.8	2	.03	5.0	8	.11
22	4.1	5	.06	5.8	3	.05	6.0	11	.18
23	4.1	4	.04	5.4	3	.04	6.5	8	.14
24	4.4	5	.06	5.4	3	.04	8.6	5	.12
25	4.7	5	.06	4.4	3	.04	16	6	.26
26	13	5	.18	4.1	4	.04	18	8	.39
27	9.9	3	.08	4.4	3	.04	12	6	.19
28	6.1	2	.03	3.8	12	.12	11	6	.18
29	4.7	3	.04	17	14	.64	9.9	7	.19
30	4.1	3	.03	15	7	.28	8.2	9	.20
31	3.8	2	.02	---	---	---	6.8	9	.17
TOTAL	226.70	---	8.47	338.8	---	3.99	288.5	---	11.33
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	6.0	8	.13	23	10	.62	34	6	.55
2	5.5	7	.10	24	12	.78	123	14	4.5
3	4.9	9	.12	225	46	28	118	12	3.9
4	4.3	7	.08	130	17	6.0	63	6	1.0
5	4.7	9	.11	70	7	1.3	53	5	.72
6	26	9	.63	45	6	.73	43	7	.81
7	23	6	.37	30	7	.57	43	9	1.0
8	13	6	.21	22	8	.48	58	12	1.8
9	8.6	6	.14	23	8	.50	144	21	8.1
10	7.1	6	.12	21	7	.40	93	15	3.7
11	142	55	22	20	6	.32	99	11	3.0
12	80	39	8.2	14	8	.30	132	10	3.6
13	28	11	.83	13	10	.35	89	7	1.7
14	15	8	.32	14	10	.38	56	6	.91
15	10	9	.24	15	10	.41	43	5	.58
16	9.0	8	.19	17	10	.46	36	6	.58
17	8.5	8	.18	21	11	.62	38	8	.82
18	8.0	7	.15	29	12	.94	35	9	.85
19	8.0	6	.13	36	14	1.4	197	32	17
20	7.5	6	.12	33	14	1.2	178	20	9.6
21	7.5	6	.12	30	12	.97	115	19	5.7
22	7.5	6	.12	32	12	1.0	141	23	8.8
23	16	25	1.1	30	12	.97	76	13	2.7
24	94	25	6.3	27	11	.80	54	12	1.7
25	83	19	4.3	25	10	.68	45	11	1.3
26	49	17	2.2	22	10	.59	39	9	.95
27	34	14	1.3	21	13	.74	33	7	.62
28	17	10	.46	27	14	1.0	146	66	27
29	15	9	.36	---	---	---	87	24	5.6
30	14	8	.30	---	---	---	45	14	1.7
31	16	9	.39	---	---	---	36	12	1.2
TOTAL	772.1	---	51.32	1039	---	52.51	2492	---	121.99

01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	34	12	1.1	39	7	.74	38		
2	28	11	.83	37	6	.60	24		
3	61	19	3.0	35	11	1.0	17		
4	107	21	6.1	38	12	1.2	60		
5	54	17	2.5	36	9	.87	50		
6	38	15	1.5	28	10	.76	26		
7	33	14	1.2	22	10	.59	19		
8	32	13	1.1	20	9	.49	17		
9	49	13	1.7	37	11	1.1	13		
10	96	34	19	27	9	.66	11		
11	294	33	34	21	9	.51	11		
12	99	17	4.5	19	9	.46	8.1		
13	60	17	2.8	17	8	.37	7.1		
14	45	17	2.1	16	7	.30	5.6		
15	39	17	1.8	18	8	.39	5.0		
16	62	28	6.3	36	11	1.1	4.4		
17	214	29	16	49	10	1.3	4.4		
18	102	14	3.9	27	6	.44	4.4		
19	219	30	22	17	5	.23	4.4		
20	264	18	13	17	4	.18	4.1		
21	116	17	5.3	17	5	.23	3.6		
22	79	16	3.4	15	4	.16	3.0		
23	61	13	2.1	67	15	2.7	2.8		
24	116	17	8.0	48	9	1.2	2.3		
25	178	15	8.5	29	6	.47	2.1		
26	95	7	1.8	17	5	.23	2.1		
27	64	8	1.4	76	12	2.5	1.9		
28	52	9	1.3	57	6	.92	17		
29	44	9	1.1	27	4	.29	26		
30	43	7	.81	73	10	2.0	8.9		
31	---	---	---	73	7	1.4	---		
TOTAL	2778	---	178.14	1055	---	25.39	403.2		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST			SEPTEMBER		
1	5.6			.90			.67		
2	4.7			2.3			.55		
3	3.8			1.1			.42		
4	3.0			2.3			.36		
5	4.1			3.8			.31		
6	7.8			1.8			.31		
7	4.4			1.3			.27		
8	3.3			1.2			.24		
9	2.8			.99			.20		
10	2.1			.67			.20		
11	1.8			.99			.20		
12	2.5			3.3			.20		
13	1.6			2.5			.31		
14	1.2			1.3			.27		
15	1.1			.99			.24		
16	.99			.90			.24		
17	.82			.82			.27		
18	.74			2.3			.31		
19	.67			3.6			.27		
20	.74			1.8			.24		
21	.74			1.2			.24		
22	.61			.90			2.8		
23	.55			.82			1.5		
24	.74			.67			.90		
25	.67			.61			.67		
26	.82			.55			.55		
27	.82			.48			.48		
28	.67			.61			.42		
29	.61			.48			.36		
30	.61			.55			.36		
31	.55			.61			---		
TOTAL	61.15			42.34			14.36		
YEAR	9511.15		453.14						

CONNECTICUT RIVER BASIN

01184490 BROAD BROOK AT BROAD BROOK, CT

LOCATION.--Lat 41°54'50", long 72°33'00", Hartford County, Hydrologic Unit 01080205, on left bank just upstream from bridge on State Highway 191 (mill Street) at Broad Brook, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--15.5 mi² (40.1 km²) rev.

PERIOD OF RECORD.--August 1961 to September 1976, May 1982 to September 1983.

REVISED RECORDS.--WSP 2101: 1962 (P).

GAGE.--Water-stage recorder. Datum of gage is 53.24 ft (16.228 m) above sea level.

REMARKS.--Records good. Flow regulated by reservoir and mill upstream.

AVERAGE DISCHARGE.--16 years, 23.5 ft³/s (0.666 m³/s), 20.59 in/yr (523 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,140 ft³/s (32.3 m³/s) Sept. 27, 1975, gage height, 6.56 ft (1.999 m); minimum, 1.35 ft³/s (0.038 m³/s) Jan. 1, 1965, gage height, 0.43 ft (0.131 m); minimum daily, 1.70 ft³/s (0.048 m³/s) July 17, 1965.

EXTREMES FOR 1982 WATER 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)
June 2	1245	181 5.13	2.33 0.710
6	0645	*601 17.0	*4.43 1.350
14	1230	162 4.59	2.23 .680

Minimum discharge, 6.0 ft³/s (0.17 m³/s) Sept. 9, gage height, 0.65 ft (0.198 m)

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)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	1100	154 4.36	2.18 0.664	Apr. 19	2045	*730 20.7	*5.02 1.530
Mar. 12	1000	155 4.39	2.19 .668	24	2030	347 9.83	3.16 .963
Apr. 11	0315	385 10.9	3.35 1.021	May 30	1615	185 5.24	2.35 .716
17	0500	205 5.81	2.45 .747				

Minimum discharge, 4.8 ft³/s (0.14 m³/s), Sept. 24, gage height, 0.60 ft (0.183 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	18	14	28	32	37	52	48	22	16	11
2	11	13	17	14	28	92	35	50	41	21	16	11
3	11	13	16	14	81	63	48	49	35	20	12	11
4	11	14	16	13	48	44	54	56	58	19	15	11
5	11	25	16	13	33	42	40	51	45	20	16	11
6	11	20	16	27	27	37	36	45	36	21	14	11
7	11	16	15	23	29	40	35	41	34	19	13	11
8	14	14	15	19	28	44	39	41	30	17	12	11
9	78	14	15	16	26	103	53	46	29	17	12	10
10	28	13	13	16	23	74	83	40	28	17	11	10
11	14	13	13	86	22	78	205	38	27	17	12	10
12	14	14	13	36	21	113	76	37	25	16	16	10
13	14	71	13	26	20	67	59	36	23	15	16	10
14	15	34	13	21	20	52	52	34	24	14	12	9.0
15	14	25	14	20	19	47	49	39	24	14	12	8.6
16	13	22	21	19	19	43	57	46	22	14	11	8.6
17	13	20	24	18	26	40	134	54	22	13	11	9.9
18	13	18	17	18	35	38	67	38	21	14	16	11
19	13	18	15	17	31	91	302	34	22	14	15	9.5
20	13	17	15	17	28	80	292	36	21	14	12	9.2
21	13	17	15	17	27	61	111	38	20	14	11	9.4
22	13	16	15	17	29	62	81	36	19	17	11	24
23	13	16	14	27	31	46	70	48	19	12	11	15
24	13	16	16	54	34	42	144	38	18	11	11	14
25	16	15	17	39	32	39	139	33	17	12	11	6.2
26	31	15	19	32	29	37	82	30	16	11	11	7.9
27	18	15	17	26	27	37	70	50	23	12	10	9.6
28	15	14	17	23	29	76	62	45	62	12	11	9.6
29	14	27	17	22	---	53	57	36	39	12	11	9.4
30	14	22	14	22	---	41	55	110	24	12	11	9.5
31	16	---	14	29	---	39	---	66	---	12	11	---
TOTAL	510	579	490	755	830	1753	2624	1393	872	475	390	318.4
MEAN	16.5	19.3	15.8	24.4	29.6	56.5	87.5	44.9	29.1	15.3	12.6	10.6
MAX	78	71	24	86	81	113	302	110	62	22	16	24
MIN	11	12	13	13	19	32	35	30	16	11	10	6.2
CFSM	1.07	1.25	1.02	1.57	1.91	3.65	5.65	2.90	1.88	.99	.81	.68
IN.	1.22	1.39	1.18	1.81	1.99	4.21	6.30	3.34	2.09	1.14	.94	.76

WTR YR 1983 TOTAL 10989.4 MEAN 30.1 MAX 302 MIN 6.2 CFSM 1.94 IN 26.37

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).

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. 170). Water-quality data available for water years 1954, 1955, 1975-80. On Aug. 22, 1983, gates closed at Goodwin Dam, reducing flow by 250 ft³/s (7.08 m³/s) for installation of hydropower plant from Aug. 22 to Sept. 30.

AVERAGE DISCHARGE (adjusted for storage).--28 years, 251 ft³/s (7.108 m³/s), 26.03 in/yr (661 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, 2,470 ft³/s (70.0 m³/s) May 4, gage height, 7.59 ft (2.313 m); minimum daily, 66 ft³/s (1.87 m³/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	130	175	119	219	133	527	2280	378	147	329	115
2	296	130	135	117	219	230	381	2330	1070	150	307	121
3	293	130	99	117	431	205	338	2340	1070	147	313	121
4	290	133	96	115	287	173	453	1830	358	147	364	119
5	299	133	96	115	230	166	540	1900	322	155	348	138
6	304	133	98	157	216	164	531	834	445	152	351	136
7	296	140	96	182	213	190	527	765	544	147	348	130
8	332	150	94	177	210	185	540	739	531	142	341	130
9	374	140	96	173	205	197	385	445	515	135	338	133
10	348	137	99	173	182	192	388	237	385	150	332	124
11	205	137	101	325	175	182	252	232	299	155	338	124
12	75	137	101	224	168	255	101	388	299	235	332	121
13	75	137	99	159	166	192	200	507	224	296	325	121
14	79	140	99	119	159	170	449	511	164	293	325	119
15	111	140	99	119	159	170	523	503	166	293	322	119
16	124	159	117	119	157	219	491	531	166	301	319	121
17	124	208	107	121	147	200	548	548	164	304	316	137
18	124	213	89	128	142	185	570	527	164	224	322	128
19	124	192	86	197	137	410	872	378	177	159	332	126
20	128	187	86	219	137	216	781	263	173	161	348	128
21	128	185	86	177	135	210	755	257	166	159	354	137
22	128	185	86	177	133	182	948	245	159	187	232	140
23	128	185	121	197	128	128	1110	313	140	245	113	126
24	128	185	147	250	133	173	878	235	109	247	111	124
25	128	185	152	221	135	287	601	301	142	192	111	157
26	128	195	164	202	133	281	1130	224	304	159	111	161
27	130	195	105	213	133	284	1510	255	101	142	111	145
28	130	195	66	224	133	491	1900	247	175	128	111	140
29	130	195	115	221	---	557	2200	237	150	161	109	140
30	130	187	133	219	---	531	2330	250	135	255	111	142
31	130	---	119	219	---	527	---	200	---	260	113	---
TOTAL	5718	4898	3362	5495	5022	7685	22759	20852	9195	6028	8237	3923
MEAN	184	163	108	177	179	248	759	673	307	194	266	131
MAX	374	213	175	325	431	557	2330	2340	1070	304	364	161
MIN	75	130	66	115	128	128	101	200	101	128	109	115
(†)	-126.9	-56.0	+29.9	+96.5	+182.3	+626.1	+425.0	-313.6	-48.3	-140.3	-214.0	-100.1
MEAN†	57.1	107	138	274	361	874	1184	359	259	53.7	52.0	30.9
CFSM†	0.44	0.82	1.05	2.09	2.76	6.67	9.04	2.74	1.98	0.41	0.40	0.24
IN ‡	0.51	0.92	1.21	2.41	2.87	7.69	10.09	3.16	2.21	0.47	0.46	0.27

CAL YR 1982 TOTAL 93601 MEAN 256 MAX 1380 MIN 66 MEAN† 257 CFSM† 1.96 IN† 25.86
WTR YR 1983 TOTAL 103174 MEAN 283 MAX 2340 MIN 66 MEAN† 312 CFSM† 2.38 IN† 32.27

† 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

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.--85.0 mi² (220 km²) rev.

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. 170). On September 21, 1983, Highland Lake released water.

AVERAGE DISCHARGE (adjusted for storage).--33 years, 174 ft³/s (4.928 m³/s), 27.79 in/yr (706 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, 3,300 ft³/s (93.5 m³/s) Apr. 19, gage height, 7.00 ft (2.134 m); minimum, 4.4 ft³/s (0.12 m³/s) Sept. 7, gage height, 1.18 ft (0.360 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	22	64	69	124	134	255	316	247	113	60	15
2	51	33	50	66	120	448	220	293	193	84	87	24
3	49	18	45	62	1310	498	404	257	128	82	46	9.6
4	56	20	42	57	1020	354	516	287	411	70	46	9.0
5	38	108	39	61	606	303	380	276	348	49	74	9.2
6	19	95	53	106	333	294	322	217	221	90	40	8.8
7	14	61	51	117	275	448	278	188	232	62	35	6.1
8	20	56	45	103	254	492	296	168	179	59	28	7.4
9	144	44	43	71	234	559	358	212	135	34	22	9.0
10	86	33	40	64	210	556	826	172	138	35	18	6.6
11	60	30	38	972	190	536	1450	135	96	31	23	5.9
12	72	36	35	602	180	705	795	125	109	29	47	9.4
13	65	240	35	302	175	504	454	118	83	25	28	33
14	65	213	41	216	170	406	337	113	75	22	23	16
15	65	131	40	183	160	408	284	125	90	30	20	11
16	47	83	190	160	156	412	556	256	126	16	18	5.9
17	42	85	275	150	155	377	1050	320	144	14	17	6.5
18	50	56	140	170	206	342	754	210	87	14	21	9.9
19	43	66	103	180	194	2250	1360	170	76	13	34	14
20	49	41	75	200	167	1650	2170	183	81	13	21	40
21	47	43	70	180	157	1330	1220	220	83	13	17	41
22	51	44	65	350	164	1240	929	184	51	13	15	110
23	20	43	63	687	166	843	795	382	44	11	14	93
24	18	56	61	538	151	657	1180	379	47	14	12	82
25	20	33	83	419	143	439	1370	270	27	15	12	76
26	39	35	168	293	132	341	979	221	31	14	10	71
27	46	39	129	213	123	313	674	518	34	12	9.6	84
28	23	35	100	165	118	757	450	440	184	11	10	72
29	34	68	112	155	---	657	370	294	241	18	11	72
30	20	82	98	130	---	448	349	323	146	13	12	66
31	19	---	74	128	---	333	---	309	---	11	20	---
TOTAL	1424	1949	2467	7169	7393	19034	21381	7681	4087	1030	850.6	1023.3
MEAN	45.9	65.0	79.6	231	264	614	713	248	136	33.2	27.4	34.1
MAX	144	240	275	972	1310	2250	2170	518	411	113	87	110
MIN	14	18	35	57	118	134	220	113	27	11	9.6	5.9
(†)	+0.3	+1.0	+6.6	+6.4	+5.1	+4.2	+4.1	-1.3	-1.8	-0.3	+0.4	-20.6
MEAN†	46.2	66.0	86.2	237	269	618	717	247	134	32.9	27.8	13.5
CFSM†	0.54	0.78	1.01	2.79	3.16	7.27	8.44	2.91	1.58	0.39	0.33	0.16
IN ‡	0.62	0.87	1.16	3.22	3.29	8.38	9.42	3.36	1.76	0.45	0.38	0.18

CAL YR 1982 TOTAL 65357.6 MEAN 179 MAX 2840 MIN 7.5 MEAN† 178 CFSM† 2.09 IN† 28.40
WTR YR 1983 TOTAL 75488.9 MEAN 207 MAX 2250 MIN 5.9 MEAN† 207 CFSM† 2.44 IN† 33.09

† 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

89

01186800 STILL RIVER AT RIVERTON, CT

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

DRAINAGE AREA.--86.2 mi² (223.3 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 19...	0925	34	114	7.5	8.0	8.5	4.0	11.9	101	50	96
NOV 22...	1030	44	123	7.4	12.0	11.0	1.0	13.1	118	24	100
DEC 14...	1000	36	152	7.5	-4.0	0.5	2.7	14.2	98	K4	88
JAN 17...	1030	153	97	7.1	-3.0	0.5	1.5	15.8	107	36	92
MAR 01...	1000	132	120	7.3	6.5	2.0	1.2	15.0	109	44	170
APR 11...	1150	1420	56	6.8	10.0	7.0	1.7	11.8	100	260	2300
MAY 17...	0945	347	72	7.1	10.0	9.0	0.7	11.5	99	250	200
JUN 14...	0950	61	98	7.3	25.0	21.0	1.3	9.6	107	80	540
JUL 13...	0940	26	128	7.4	24.0	18.0	2.0	9.4	96	88	7100
AUG 09...	0920	23	135	7.3	22.5	22.0	0.8	8.7	99	200	9400
SEP 01...	0915	16	190	7.1	21.0	20.0	0.8	8.2	89	270	15

DATE	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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	--	--	--	--	--	9.0	14	--	81	23	0.11
NOV 22...	35	15	9.0	3.0	20	9.0	12	6.4	74	52	0.1
DEC 14...	--	--	--	--	--	11	17	--	97	28	0.13
JAN 17...	25	11	6.7	2.0	14	9.0	11	5.6	56	43	0.08
MAR 01...	--	--	--	--	--	11	16	--	64	27	0.09
APR 11...	--	--	--	--	--	5.0	5.7	--	36	11	0.05
MAY 17...	22	8	5.7	1.8	14	7.0	6.4	4.2	49	34	0.07
JUN 14...	--	--	--	--	--	8.0	12	--	71	20	0.1
JUL 13...	38	13	10	3.1	25	8.0	17	5.0	76	58	0.1
AUG 09...	--	--	--	--	--	9.0	16	--	94	25	0.13
SEP 01...	--	--	--	--	--	8.0	24	--	104	32	0.14

CONNECTICUT RIVER BASIN

01186800 STILL RIVER AT RIVERTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	7.4	88	0.65	0.05	0.7	0.51	3.3	3.80	4.5	0.24
NOV 22...	8.9	79	0.68	0.02	0.7	0.47	0.23	0.7	1.4	0.15
DEC 14...	9.4	102	0.58	0.02	0.6	0.89	0.81	1.70	2.3	0.25
JAN 17...	23.1	60	0.19	<0.01	0.2	0.12	0.00	0.1	0.3	0.05
MAR 01...	22.8	79	0.19	<0.01	0.2	0.28	0.12	0.4	0.6	0.07
APR 11...	138	51	0.09	<0.01	<0.1	0.06	0.24	0.3	0.4	0.07
MAY 17...	45.9	57	0.09	<0.01	<0.1	0.12	0.28	0.4	0.5	0.04
JUN 14...	11.6	78	0.43	0.07	0.5	0.22	0.28	0.5	1.0	0.21
JUL 13...	5.3	92	1.2	0.05	1.2	0.03	0.47	0.5	1.7	0.30
AUG 09...	5.9	102	1.1	0.03	1.1	0.04	0.86	0.9	2.0	0.19
SEP 01...	4.5	116	2.3	0.13	2.4	0.15	0.75	0.9	3.3	0.51

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	0.21	1	3	8	--	<1	--	14	10	4.2
NOV 22...	0.13	<1	<1	6	200	1	15	8	10	5.5
DEC 14...	0.23	5	<1	1	--	2	--	8	10	4.8
JAN 17...	0.03	<1	8	1	76	1	14	1	<4.00	4.0
MAR 01...	0.05	1	5	2	--	2	--	5	10	3.1
APR 11...	0.01	<1	<1	8	--	2	--	3	10	4.9
MAY 17...	0.03	1	<1	8	130	<1	16	1	3.00	4.4
JUN 14...	0.17	1	2	5	--	1	--	10	10	4.4
JUL 13...	0.29	<1	<1	10	190	7	14	1	14	5.7
AUG 09...	0.17	<1	<1	6	--	6	--	3	20	5.0
SEP 01...	0.45	1	<1	12	--	<1	--	10	10	4.6

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 Stateline, 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) rev.

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

GAGE.--Water-stage recorder and stepped sharp-crested weir. Datum of gage is 594.57 ft (181.225 m) National Geodetic Vertical Datum of 1929. Prior to October 1, 1981, at datum 0.05 ft (0.015 m) higher

REMARKS.--Record good.

COOPERATION.--Gage-height record prior to May 28, 1982, furnished by Water Bureau, Metropolitan District Commission, Hartford, Connecticut.

AVERAGE DISCHARGE.--44 years, 39.5 ft³/s (1.119 m³/s), 28.04 in/yr (712 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 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 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. 11	0430	631 17.9	5.17 1.576	Apr. 10	2200	790 22.4	5.70 1.737
Feb. 3	0930	712 20.2	5.44 1.658	19	2100	*a 1690 47.9	*7.61 2.320
Mar. 19	0900	888 25.1	5.97 1.820	24	2400	550 15.6	4.87 1.484

a From rating curve extended above 300 ft³/s (8 m³/s) on basis of contracted-opening measurement at gage height 16.5 ft (5.03 m).

Minimum daily discharge, 0.7 ft³/s (0.020 m³/s) Sept. 16, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.8	24	20	31	29	62	63	52	12	2.9	2.4
2	2.8	4.8	20	19	29	258	56	61	38	10	4.1	1.9
3	2.5	4.5	18	17	470	202	116	58	29	10	2.0	1.6
4	2.2	4.8	18	13	249	108	147	65	138	6.6	4.0	1.5
5	2.0	33	16	18	96	87	92	57	94	19	7.0	1.3
6	1.9	24	17	40	69	78	70	46	57	40	8.0	1.2
7	1.7	16	17	36	59	138	60	40	55	19	11	1.2
8	3.2	13	15	28	55	134	78	37	39	12	6.0	1.1
9	30	11	14	22	50	148	90	50	28	9.0	3.8	1.1
10	22	8.9	11	22	47	179	253	37	23	8.0	2.9	.90
11	14	8.2	10	385	45	176	408	33	20	7.0	2.8	.84
12	10	8.0	9.5	137	43	322	137	30	16	6.0	7.4	.84
13	8.2	96	8.7	67	41	160	88	27	14	5.5	6.4	.90
14	8.3	65	11	46	38	122	70	25	12	5.0	4.1	.90
15	7.6	42	12	36	37	138	61	31	18	4.0	3.1	.84
16	6.4	29	77	30	36	134	120	64	26	3.5	2.4	.79
17	5.4	25	90	25	33	110	289	77	20	3.2	2.0	1.2
18	4.4	22	42	22	50	116	187	50	15	2.6	10	1.2
19	3.9	20	31	20	42	741	638	38	17	2.9	12	.84
20	4.1	18	26	19	34	410	602	41	15	2.5	7.0	.79
21	3.9	17	24	18	33	334	256	71	12	1.6	4.7	1.2
22	3.8	17	20	17	35	290	177	54	9.5	1.5	3.2	9.3
23	3.6	16	19	48	35	131	160	113	8.9	1.3	2.5	3.6
24	3.6	16	21	164	34	91	340	112	8.7	1.5	2.1	2.5
25	3.6	14	28	113	32	73	366	68	6.0	2.1	1.9	2.0
26	7.6	14	59	74	29	63	194	48	4.7	1.7	1.6	1.6
27	7.6	14	40	59	27	58	117	167	4.4	1.4	1.5	1.4
28	6.4	13	36	52	27	185	88	110	34	1.3	2.2	1.3
29	5.6	31	34	42	---	148	73	67	38	1.2	2.7	1.2
30	5.2	33	27	34	---	91	70	77	19	1.2	2.2	1.2
31	4.8	---	22	33	---	71	---	73	---	5.2	2.8	---
TOTAL	199.5	643.0	817.2	1676	1806	5325	5465	1890	871.2	207.8	136.3	48.64
MEAN	6.44	21.4	26.4	54.1	64.5	172	182	61.0	29.0	6.70	4.40	1.62
MAX	30	96	90	385	470	741	638	167	138	40	12	9.3
MIN	1.7	4.5	8.7	13	27	29	56	25	4.4	1.2	1.5	.79
CFSM	.32	1.08	1.33	2.72	3.24	8.64	9.15	3.07	1.46	.34	.22	.08
IN.	.37	1.20	1.53	3.13	3.38	9.95	10.22	3.53	1.63	.39	.25	.09
CAL YR 1982	TOTAL	15381.90	MEAN	42.1	MAX	899	MIN	1.3	CFSM	2.12	IN	28.75
WTR YR 1983	TOTAL	19085.64	MEAN	52.3	MAX	741	MIN	.79	CFSM	2.63	IN	35.68

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.--4.10 mi² (10.62 km²) rev.

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

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation at low flow.

AVERAGE DISCHARGE.--52 years, 8.26 ft³/s (0.234 m³/s), 27.36 in/yr (695 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)	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. 11	0500	250	7.08	5.87	1.789	Mar. 28	0445	161	4.56	5.19	1.582
Feb. 3	0900	300	8.50	6.15	1.875	Apr. 10	2245	392	11.1	6.59	2.009
Mar. 19	1115	810	22.9	*7.85	2.393	16	2330	216	6.12	5.62	1.713
21	1845	243	6.88	5.82	1.774	19	2130	270	7.65	6.00	1.829
						24	1700	258	7.31	5.92	1.804

Minimum discharge, 0.52 ft³/s (0.015 m³/s) Sept. 12, gage height, 1.73 ft (0.527 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.5	4.3	3.8	5.5	7.4	13	15	13	4.4	1.7	1.2
2	1.0	2.4	3.9	3.6	5.5	67	12	13	9.5	4.7	2.0	.90
3	.95	2.4	3.7	3.5	128	29	31	13	8.0	4.1	1.6	.87
4	.85	2.8	3.9	3.3	33	17	25	16	32	3.3	1.9	.76
5	.80	9.0	3.6	3.3	15	15	16	13	19	5.5	2.1	.87
6	.80	7.0	3.8	9.5	9.9	14	13	12	11	6.5	2.5	.83
7	1.2	5.0	3.5	7.0	9.0	27	11	10	9.0	3.9	2.6	.67
8	2.0	4.0	3.0	5.2	8.5	27	13	10	7.9	3.5	1.7	.64
9	8.0	3.3	2.5	4.1	7.9	45	18	17	6.8	3.3	1.4	.76
10	4.5	2.8	2.3	4.7	7.3	24	98	11	6.4	3.0	1.3	.64
11	3.0	2.5	2.0	86	7.0	21	98	9.7	6.1	2.9	1.7	.70
12	2.3	2.5	1.9	14	7.0	48	23	9.2	5.5	2.6	4.6	.62
13	2.1	20	1.8	8.3	6.8	21	18	8.7	4.9	2.6	2.6	.87
14	3.0	12	2.2	6.0	6.7	15	15	8.3	5.1	2.4	1.9	.76
15	2.6	6.0	2.5	5.5	6.6	13	14	8.7	5.7	2.3	1.6	.70
16	2.4	4.5	15	5.0	6.5	11	53	12	6.3	2.2	1.3	.70
17	2.2	4.2	12	4.5	7.5	10	88	16	5.6	2.0	1.2	.76
18	2.1	3.9	5.7	4.5	10	13	34	9.5	4.8	1.9	2.2	.78
19	2.2	3.8	4.6	4.2	8.0	375	105	8.2	7.1	2.0	2.1	.78
20	2.0	3.6	4.3	4.0	7.0	65	116	10	8.2	1.8	1.5	.64
21	2.0	3.5	4.3	3.9	6.5	84	39	9.7	5.3	1.8	1.1	1.1
22	1.9	3.6	4.0	5.0	7.0	49	24	8.8	4.5	1.8	1.2	5.5
23	1.8	3.5	3.9	16	7.5	24	20	23	3.2	1.5	1.1	1.5
24	1.8	3.4	4.5	35	8.0	19	99	13	3.1	3.1	.90	1.1
25	2.6	3.3	7.3	15	7.7	16	66	12	3.3	3.0	.98	.98
26	7.4	3.2	8.3	11	7.1	13	30	8.5	3.3	2.0	.94	.98
27	3.5	3.3	5.3	8.0	6.4	13	21	35	3.8	1.9	.83	.87
28	3.0	3.0	4.8	6.8	6.5	85	18	18	15	1.7	1.2	.87
29	2.9	8.7	4.7	6.4	---	23	16	11	12	1.8	1.4	.76
30	2.7	6.0	4.1	6.1	---	16	17	19	6.0	1.5	1.3	1.0
31	2.2	---	3.9	5.8	---	15	---	21	---	1.5	1.3	---
TOTAL	77.00	145.7	141.6	309.0	359.4	1221.4	1164	409.3	241.4	86.5	51.75	30.11
MEAN	2.48	4.86	4.57	9.97	12.8	39.4	38.8	13.2	8.05	2.79	1.67	1.00
MAX	8.0	20	15	86	128	375	116	35	32	6.5	4.6	5.5
MIN	.80	2.4	1.8	3.3	5.5	7.4	11	8.2	3.1	1.5	.83	.62
CFSM	.61	1.19	1.12	2.43	3.12	9.61	9.46	3.22	1.96	.68	.41	.24
IN.	.70	1.32	1.28	2.80	3.26	11.08	10.56	3.71	2.19	.78	.47	.27

CAL YR 1982 TOTAL 3242.50 MEAN 8.88 MAX 289 MIN .80 CFSM 2.17 IN 29.41
WTR YR 1983 TOTAL 4237.16 MEAN 11.6 MAX 375 MIN .62 CFSM 2.83 IN 38.44

CONNECTICUT RIVER BASIN

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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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 17...	1200	4.4	82	7.1	6.0	3.0	2.0	13.0	98	K8	28
JAN 11...	1315	76	48	6.5	11.5	3.5	1.6	13.0	102	320	3000
MAY 16...	1315	11	67	7.0	9.5	12.0	0.6	10.6	101	80	64
JUL 11...	1130	3.0	89	6.9	24.0	17.5	4.1	9.2	98	27	660

DATE	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 LAB (MG/L 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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
NOV 17...	17	6	4.0	1.8	11	8.0	10	9.4	52	40	0.07
JAN 11...	11	6	2.3	1.2	5.0	7.0	6.2	5.2	--	25	0.03
MAY 16...	15	6	3.6	1.4	9.0	6.0	8.8	6.7	48	32	0.06
JUL 11...	21	5	5.1	2.0	16	5.0	13	9.4	82	45	0.11

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, 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)
NOV 17...	0.62	62	0.09	<0.01	0.1	0.05	0.15	0.2	0.3	0.03
JAN 11...	5.	--	0.19	<0.01	0.2	0.04	0.76	0.8	1.0	0.14
MAY 16...	1.4	64	0.09	<0.01	0.1	0.03	0.27	0.3	0.4	0.01
JUL 11...	0.66	59	0.09	<0.01	0.1	0.05	0.25	0.3	0.4	0.04

DATE	PHOS- PHORUS, DIS- SOLVED (UG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	0.03	1	<1	1	310	<1	140	<1	10	4.4
JAN 11...	0.03	1	1	1	150	6	96	2	<4.00	7.7
MAY 16...	<0.01	<1	<1	2	240	<1	170	<1	11	2.7
JUL 11...	0.06	1	<1	3	750	1	180	3	<3.00	4.2

CONNECTICUT RIVER BASIN

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

LOCATION.--Lat 41°45'52", long 72°53'47", Hartford County, Hydrologic Unit 01080207, at bridge on State Highway 4, at Unionville, and 3.2 mi (5.1 km) downstream from Burlington Brook and 3.9 mi (6.3 km) upstream from Pequobuck River.

DRAINAGE AREA.--377 mi² (976 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 18...	1300	187	95	7.9	13.0	10.5	2.0	12.4	110	640	600
NOV 17...	1050	648	67	7.2	7.0	5.5	1.0	13.8	109	600	260
DEC 13...	1120	167	115	7.3	<0.5	0.0	1.5	15.3	104	2900	400
JAN 11...	1130	3070	61	6.9	14.0	3.0	15	14.0	107	1000	5000
MAR 01...	1100	420	89	7.3	11.0	3.0	0.5	13.8	103	820	400
APR 11...	1305	4280	50	6.9	12.0	6.5	0.7	13.3	111	600	660
MAY 16...	1215	1140	64	7.3	9.0	10.0	0.3	11.8	105	180	370
JUN 13...	1015	604	68	7.2	29.0	19.5	0.3	9.9	108	68	50
JUL 11...	1010	200	79	7.3	22.5	21.0	0.2	9.7	108	60	760
AUG 08...	1215	380	69	6.8	32.0	23.0	0.4	9.6	113	170	880
SEP 01...	0920	380	55	6.9	22.5	19.0	0.4	9.3	100	220	2000

DATE	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- LITY LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 18...	--	--	--	--	--	9.0	11	--	66	20	0.09
NOV 17...	17	8	4.5	1.4	9.0	7.0	6.9	4.6	37	30	0.05
DEC 13...	--	--	--	--	--	9.0	13	--	66	22	0.09
JAN 11...	15	7	4.0	1.3	8.0	8.0	7.2	4.8	52	30	0.07
MAR 01...	--	--	--	--	--	11	11	--	52	22	0.07
APR 11...	--	--	--	--	--	5.0	5.3	--	37	10	0.05
MAY 16...	16	7	4.4	1.3	9.0	7.0	6.1	4.7	43	29	0.06
JUN 13...	--	--	--	--	--	10	7.9	--	47	18	0.06
JUL 11...	22	8	5.9	1.7	14	7.0	9.3	4.9	50	37	0.07
AUG 08...	--	--	--	--	--	8.0	7.6	--	44	16	0.06
SEP 01...	--	--	--	--	--	7.0	6.4	--	31	13	0.04

CONNECTICUT RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 18...	33.3	64	0.29	<0.01	0.3	0.03	0.07	<0.1	0.4	0.02
NOV 17...	64.7	39	0.19	<0.01	0.2	0.03	0.37	0.4	0.6	0.02
DEC 13...	29.8	75	0.39	0.01	0.4	0.19	0.91	1.10	1.5	0.07
JAN 11...	431	--	0.19	0.01	0.2	0.09	1.1	1.20	1.4	0.47
MAR 01...	59.0	63	0.19	<0.01	0.2	0.06	0.44	0.5	0.7	0.02
APR 11...	428	48	0.09	<0.01	<0.1	0.01	0.29	0.3	0.4	0.03
MAY 16...	132	50	0.09	<0.01	0.1	0.02	0.58	0.6	0.7	0.02
JUN 13...	76.6	52	0.09	<0.01	<0.1	<0.01	0.19	0.2	0.3	0.04
JUL 11...	27.0	55	0.19	<0.01	0.2	<0.01	0.29	0.3	0.5	0.07
AUG 08...	45.1	58	0.09	<0.01	<0.1	0.03	1.1	1.10	1.2	0.05
SEP 01...	31.8	41	0.19	<0.01	0.2	0.05	0.45	0.5	0.7	0.05

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	0.04	<1	<1	4	--	<1	--	4	10	3.5
NOV 17...	0.01	1	<1	3	100	<1	27	8	<4.00	3.1
DEC 13...	0.05	2	<1	1	--	1	--	2	<10	3.9
JAN 11...	0.03	1	1	2	210	5	73	1	10	8.4
MAR 01...	0.02	<1	2	3	--	4	--	2	20	2.8
APR 11...	<0.01	<1	<1	2	--	6	--	2	10	4.4
MAY 16...	0.01	1	3	2	70	5	16	2	3.00	2.3
JUN 13...	0.02	1	<1	<1	--	<1	--	1	10	3.2
JUL 11...	0.06	1	<1	5	120	1	17	1	5.00	4.3
AUG 08...	0.04	<1	<1	3	--	1	--	1	10	3.7
SEP 01...	0.03	1	<1	2	--	<1	--	<1	10	2.3

CONNECTICUT RIVER BASIN

01188090 FARMINGTON RIVER AT UNIONVILLE, CT

LOCATION.--Lat 41°45'21", long 72°53'14", Hartford County, Hydrologic Unit 01080207, at right bank upstream of steel truss highway bridge on State highway 177 at Unionville, 4.1 mi (6.6 km) downstream from Burlington Brook and 3.0 mi (4.8 km) upstream from Pequabuck River.

DRAINAGE AREA.--378 mi² (979 km²).

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.170), and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs. Water-quality data available for water years 1977-80. A flow of 250 ft³/s (7.08 m³/s) was released from Lake McDonough on Aug. 22 to Sept. 30 and that same flow was reduced at Hogback Reservoir for construction of a hydropower plant.

AVERAGE DISCHARGE (adjusted for storage and diversion).--6 years, 779 ft³/s (22.06 m³/s), 27.97 in/yr (710 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s (575 m³/s) Mar. 23, 1980, gage height, 16.57 ft (5.051 m); minimum, 94 ft³/s (2.66 m³/s) Oct. 17, 1983, gage height, 4.23 ft (1.289 m).

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, 10,000 ft³/s (283 m³/s) Apr. 20, gage height, 12.52 ft (3.816 m); minimum, 94 ft³/s (2.66 m³/s) Oct. 17; gage height, 4.23 ft (1.289 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	256	280	227	420	420	1510	3270	1090	374	340	370
2	356	471	241	218	410	1270	1310	3220	1610	340	583	344
3	348	482	197	216	2760	1500	1500	3150	1970	325	451	361
4	336	482	195	208	2060	1090	2040	2800	1470	303	425	348
5	336	650	179	210	1240	893	1810	3130	1400	332	451	365
6	328	663	179	301	915	842	1620	1680	1160	383	411	365
7	312	594	188	378	773	1070	1460	1540	1250	303	411	357
8	324	548	177	336	650	1280	1450	1400	1150	254	378	348
9	721	531	171	297	600	1630	1540	1400	1070	232	357	348
10	537	526	165	276	570	1430	2110	890	808	215	365	348
11	450	515	169	2020	526	1380	4680	768	653	207	451	348
12	373	521	161	1250	500	1920	2670	782	596	232	411	365
13	188	1010	167	708	470	1480	1870	978	532	383	378	392
14	184	923	193	510	450	1130	1690	948	310	352	344	387
15	203	734	179	466	440	1020	1650	926	325	325	340	374
16	205	683	309	430	430	992	2000	1160	365	321	332	370
17	177	650	577	410	499	900	3780	1410	370	321	344	378
18	186	619	332	391	571	870	3030	1200	340	303	451	392
19	197	613	253	480	565	6270	4270	1020	310	207	352	374
20	188	606	229	500	493	5510	7830	955	329	185	378	396
21	195	571	203	470	466	3930	4650	993	370	170	357	405
22	193	554	200	470	471	3940	3580	948	321	213	392	568
23	190	521	205	1650	487	2700	3230	1330	300	227	401	496
24	171	283	238	3000	482	2060	3980	1210	258	273	383	467
25	175	266	256	2150	471	1800	4440	1130	197	263	383	440
26	216	241	360	740	445	1450	3850	882	321	195	378	479
27	205	241	348	600	410	1320	3440	1490	294	187	374	440
28	200	241	244	548	391	2750	3300	1460	435	195	401	440
29	182	294	253	493	---	2550	3360	1110	634	158	396	435
30	186	312	276	450	---	2000	3420	1210	420	230	383	440
31	175	---	247	430	---	1720	---	1260	---	267	392	---
TOTAL	8401	15601	7371	20833	18965	59117	87070	45650	20648	8275	12193	11940
MEAN	271	520	238	672	677	1907	2902	1473	688	267	393	398
MAX	721	1010	577	3000	2760	6270	7830	3270	1970	383	583	568
MIN	171	241	161	208	391	420	1310	768	197	158	332	344
(†)	-94.1	-206.5	+135.5	+370.5	+454.9	+934	+510.1	-238.8	+32.7	-129.1	-255	-348.5
MEAN‡	177	314	374	1042	1132	2841	3412	1234	655	138	138	49.5
CFSM‡	0.47	0.83	0.99	2.76	2.99	7.52	9.03	3.26	1.73	0.37	0.37	0.13
IN ‡	0.54	0.93	1.14	3.18	3.11	8.67	10.08	3.76	1.93	0.43	0.43	0.14

CAL YR 1982 TOTAL 242726 MEAN 665 MAX 10500 MIN 126 MEAN‡ 748 CFSM‡ 1.98 IN‡ 26.87
WTR YR 1983 TOTAL 316064 MEAN 866 MAX 7830 MIN 158 MEAN‡ 961 CFSM‡ 2.54 IN‡ 34.34

† 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.

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.--45.8 mi² (118.6 km²) rev.

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 except those for missing record Mar. 2 to May 3, which are fair. Flow regulated by Whigville Reservoir (see p. 170) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir, Whites Bridge wells, and Coppermine Brook. Chemical quality records available for water years 1956, 1960 (WSP 1741), 1971-72 (WRDC 1971-72).

AVERAGE DISCHARGE (adjusted for storage and diversion).--42 years, 86.3 ft³/s (2.444 m³/s), 25.59 in/yr (650 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. 11	0330	1530	43.3	Apr. 17	unknown	1500	42.5
Feb. 3	1400	948	40.5	20	unknown	2000	56.6
Mar. 19	1000	*3270	92.6	24	unknown	1800	51.0
Apr. 11	1700	1020	28.9				
			3.27				0.997

Minimum discharge, 14 ft³/s (0.40 m³/s) Sept. 21; minimum gage height, 1.00 ft (0.305 m) Oct. 18-20, 22, 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	28	26	50	70	150	170	170	48	24	21
2	18	21	18	26	72	700	150	165	140	43	23	19
3	18	19	25	26	787	250	370	165	120	40	22	18
4	18	22	25	24	382	180	300	193	400	37	24	17
5	18	77	24	27	168	160	200	193	220	86	23	18
6	18	31	25	75	118	150	160	170	150	73	27	18
7	20	24	24	42	108	300	150	149	125	47	26	17
8	24	21	22	34	94	330	180	139	110	40	23	17
9	47	20	22	31	78	480	200	177	95	37	21	17
10	22	20	20	81	68	250	960	156	82	34	20	17
11	19	19	21	660	60	400	960	141	76	34	33	16
12	18	19	21	121	56	500	300	124	71	33	78	21
13	20	308	21	68	71	350	200	114	65	31	34	19
14	20	67	20	49	63	170	180	106	60	30	24	17
15	21	43	21	45	65	140	170	102	57	29	23	17
16	18	32	121	43	66	120	800	120	73	28	21	16
17	18	29	57	40	71	110	1000	162	63	27	21	17
18	17	27	35	38	101	150	500	143	56	28	29	17
19	18	26	31	37	101	2200	1200	127	73	27	23	17
20	18	24	31	35	88	900	1300	118	64	27	21	16
21	18	24	30	34	78	1000	600	112	60	34	19	32
22	20	24	27	33	77	600	480	102	56	29	20	63
23	20	23	28	94	77	300	300	253	52	25	19	20
24	17	23	43	223	78	250	1250	160	48	74	19	18
25	40	21	40	126	80	200	600	140	42	36	19	17
26	77	20	43	82	77	190	350	130	40	29	19	18
27	28	21	34	63	73	180	270	380	71	27	19	18
28	23	20	32	55	70	900	230	200	149	24	71	17
29	24	69	30	53	---	250	190	150	81	24	33	17
30	22	34	28	52	---	170	190	230	56	23	23	29
31	19	---	27	50	---	160	---	250	---	23	21	---
TOTAL	718	1148	974	2393	3277	12110	13890	5041	2925	1127	822	601
MEAN	23.2	38.3	31.4	77.2	117	391	463	163	97.5	36.4	26.5	20.0
MAX	77	308	121	660	787	2200	1300	380	400	86	78	63
MIN	17	19	18	24	50	70	150	102	40	23	19	16
(†)	+2.2	+3.6	+3.9	+8.6	+9.7	+9.6	+5.9	+7.7	+6.5	+4.3	+2.8	+2.1
MEAN†	25.4	30.8	35.3	85.8	127	401	469	171	104	40.7	29.3	22.1
CFSM†	0.55	0.67	0.77	1.87	2.77	8.76	10.24	3.73	2.27	0.89	0.64	0.48
IN ‡	0.63	0.75	0.89	2.16	2.88	10.10	11.42	4.30	2.53	1.03	0.74	0.54

CAL YR 1982 TOTAL 31293 MEAN 85.7 MAX 2360 MIN 17 MEAN† 91.5 CFSM† 2.00 IN† 26.86
WTR YR 1983 TOTAL 45026 MEAN 123 MAX 2200 MIN 16 MEAN† 129 CFSM† 2.82 IN† 37.97

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

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CT

LOCATION.--Lat 41°43'00", long 72°50'25", Hartford County, Hydrologic Unit 01080207, at bridge on Meadow Road, at Farmington, and 0.2 mi (0.3 km) upstream from Farmington River.

DRAINAGE AREA.--57.2 mi² (148.1 km²).

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01189000, 6.3 mi (10 km) upstream, and adjusting its discharge by multiplying by a factor of 1.26, which is the ratio of the two stations' drainage areas.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 18...	1130	23	315	7.2	10.0	8.5	7.0	4.3	36	24000
NOV 17...	1000	37	315	7.1	5.5	5.0	5.0	7.3	57	30000
DEC 13...	1015	27	370	7.2	<-5.0	0.5	3.3	7.7	53	80000
JAN 11...	1020	939	128	6.9	12.0	3.0	8.5	11.6	88	16000
MAR 01...	0945	86	230	7.1	4.0	4.5	1.0	10.8	84	26000
APR 11...	1145	1220	64	6.8	11.0	8.5	3.1	10.5	91	5000
MAY 16...	1045	141	170	7.0	11.0	13.0	1.8	6.0	58	170
JUN 13...	0910	86	200	6.9	27.0	19.0	1.0	4.2	45	100
JUL 11...	0855	41	255	6.9	21.5	17.5	4.2	2.7	28	400
AUG 08...	1100	31	280	6.9	31.0	22.0	1.5	1.5	17	88
SEP 01...	0800	26	410	6.9	20.5	20.0	3.5	0.5	5	4200

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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 18...	15000	--	--	--	--	--	26	28	--	195
NOV 17...	19000	59	23	18	3.5	36	32	27	12	183
DEC 13...	90000	--	--	--	--	--	26	34	--	209
JAN 11...	34000	26	12	7.8	1.5	14	11	16	4.6	78
MAR 01...	13000	--	--	--	--	--	25	27	--	120
APR 11...	9500	--	--	--	--	--	8.0	6.3	--	44
MAY 16...	360	47	18	14	2.8	29	13	15	8.4	104
JUN 13...	220	--	--	--	--	--	16	21	--	126
JUL 11...	380	63	27	19	3.7	36	19	28	12	147
AUG 08...	600	--	--	--	--	--	18	29	--	149
SEP 01...	760	--	--	--	--	--	39	45	--	234

CONNECTICUT RIVER BASIN

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01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 18...	54	0.27	12.3	206	1.5	0.13	1.6	6.10	--	--
NOV 17...	115	0.25	18.0	195	1.6	0.09	1.7	3.80	0.6	4.40
DEC 13...	60	0.28	15.1	232	2.4	0.07	2.5	6.60	--	6.50
JAN 11...	50	0.11	198	127	0.67	0.03	0.7	0.97	0.43	1.40
MAR 01...	52	0.16	27.8	156	1.1	0.03	1.1	1.50	0.9	2.40
APR 11...	14	0.06	145	60	0.38	0.02	0.4	0.15	0.35	0.5
MAY 16...	71	0.14	39.6	117	0.75	0.05	0.8	0.89	0.81	1.70
JUN 13...	37	0.17	29.4	139	0.83	0.07	0.9	1.20	1.0	2.20
JUL 11...	104	0.2	16.1	158	1.0	0.09	1.1	3.00	1.2	4.20
AUG 08...	47	0.2	12.4	176	0.14	0.06	0.2	4.40	0.7	5.10
SEP 01...	84	0.32	16.1	259	0.31	0.09	0.4	5.20	2.3	7.50

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 18...	1.6	2.00	1.80	3	1	2	<1	26	12	980
NOV 17...	6.1	1.70	1.60	3	3	9	<1	36	19	800
DEC 13...	9.0	2.20	2.00	10	9	<1	<1	32	7	890
JAN 11...	2.1	0.74	0.23	7	2	30	3	66	9	2100
MAR 01...	3.5	0.82	0.66	3	3	6	3	24	7	670
APR 11...	0.9	0.14	0.06	2	1	4	2	21	15	920
MAY 16...	2.5	0.45	0.25	4	3	<1	<1	22	11	1100
JUN 13...	3.1	0.59	0.43	2	2	11	<1	23	7	1100
JUL 11...	5.3	1.00	0.88	4	2	5	<1	34	21	1000
AUG 08...	5.3	1.70	1.80	3	1	6	<1	19	10	1300
SEP 01...	7.9	3.70	3.20	4	2	9	<1	--	40	1300

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	--	8.00	<1	--	13	10	50	30	11
NOV 17...	360	8.00	4	170	20	19	110	65	6.5
DEC 13...	--	18	5	--	20	24	60	40	7.9
JAN 11...	200	31	4	130	12	8	110	28	5.4
MAR 01...	--	17	5	--	7.00	9	80	70	5.1
APR 11...	--	9.00	8	--	9.00	3	50	30	4.6
MAY 16...	290	10	<1	500	18	8	60	37	4.4
JUN 13...	--	5.00	<1	--	9.00	7	50	30	5.0
JUL 11...	430	35	6	220	14	7	50	34	7.7
AUG 08...	--	6.00	1	--	9.00	7	30	20	4.8
SEP 01...	--	7.00	<1	--	13	11	180	30	8.9

CONNECTICUT RIVER BASIN

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01189120 FARMINGTON RIVER AT AVON, CT

LOCATION.--Lat 41°48'24", long 72°49'23", Hartford County, Hydrologic Unit 01080207, at bridge on U.S. Highway 44, at Avon, 1.3 mi (2.1 km) downstream from Nod Brook and 3.9 mi (6.3 km) upstream from Thompson Brook.

DRAINAGE AREA.--465 mi² (1,204 km²).

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

REMARKS.--Discharges shown for this location prior to October 1981 were computed by determining the discharge for station 01189995, 11.2 mi (18.0 km) downstream, and adjusting its discharge by multiplying by a factor of 0.81, which is the ratio of the two stations' drainage areas. Since October 1981, discharges are computed by first computing the discharge by the former method and then averaging this value with a value determined by adding the discharges for stations 01188090 and 01189030 and adjusting their sum by multiplying by a factor of 1.07.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 17...	1300	719	92	7.1	9.0	6.0	2.0	12.4	98	2300	600
JAN 11...	1420	3260	91	7.0	12.0	2.5	5.5	13.5	101	2000	8000
MAY 17...	0830	1530	84	7.0	9.5	10.0	0.6	10.4	92	240	420
JUL 11...	1230	293	120	6.9	26.0	22.0	0.2	8.2	93	40	80

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM, DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY, LAB (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
NOV 17...	22	9	6.2	1.6	13	9.0	8.9	5.3	52	39	0.07
JAN 11...	23	10	6.3	1.8	13	10	11	5.5	64	43	0.09
MAY 17...	23	10	6.5	1.6	13	9.0	7.6	5.5	54	38	0.07
JUL 11...	34	12	10	2.2	22	11	14	6.3	97	57	0.13

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 17...	101	59	0.49	0.01	0.5	0.34	0.26	0.6	1.1	0.17
JAN 11...	563	--	0.39	0.01	0.4	0.16	0.44	0.6	1.0	0.34
MAY 17...	223	63	0.29	0.01	0.3	0.14	0.46	0.6	0.9	0.14
JUL 11...	76.7	82	0.65	0.05	0.7	0.34	0.46	0.8	1.5	0.25

DATE	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	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)	NICKEL, DIS-SOLVED (UG/L AS Ni)	ZINC, DIS-SOLVED (UG/L AS Zn)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	0.14	2	<1	3	120	<1	27	3	17	4.2
JAN 11...	0.34	2	1	1	160	3	53	1	<4.00	7.4
MAY 17...	0.10	1	<1	5	130	1	42	<1	3.00	3.3
JUL 11...	0.22	1	<1	7	150	1	64	4	15	4.3

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.--577 mi² (1,494 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 1301: 1936. WSP 1301: 1937-39 (revised records published are included with those for "Farmington River at Rainbow, Conn."). WDR CT-76-1: 1972-75. WDR CT-80-1: Drainage area.

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. 170), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs. A flow of 250 ft³/s (7.08 m³/s) was released from Lake McDonough on Aug. 22 to Sept. 30, and that same flow was reduced at Hogback Reservoir for construction of a hydropower plant.

AVERAGE DISCHARGE (adjusted for storage and diversion).--12 years, 1,291 ft³/s (36.56 m³/s), 30.69 in/yr (780 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, 9,720 ft³/s (275 m³/s) Apr. 21, gage height, 8.36 ft (2.548 m); 275 ft³/s (7.79 m³/s) Oct. 25, gage height, 1.11 ft (0.338 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575	303	450	434	530	918	2550	4510	2070	769	418	539
2	539	480	400	407	500	1910	2280	4300	2030	693	734	491
3	515	632	350	396	3430	3000	2280	4190	2510	652	693	480
4	503	632	330	380	4810	2500	3230	4150	2650	594	639	474
5	491	813	310	359	3200	1980	3050	3910	2690	594	665	468
6	486	1000	310	486	2080	1750	2660	3430	2160	820	646	480
7	468	865	320	672	1620	1810	2360	2550	1980	734	639	474
8	468	791	310	639	1300	2270	2230	2220	1890	587	594	463
9	956	741	300	569	1200	3180	2460	2350	1710	515	539	451
10	1030	713	280	497	1130	3040	2680	1930	1520	457	509	451
11	748	693	280	2510	1050	2850	6200	1600	1290	434	563	457
12	686	693	270	3020	1000	3300	6400	1450	1120	418	679	451
13	509	1180	284	1860	950	3280	4500	1570	1070	497	713	491
14	370	1630	313	1140	900	2540	3110	1580	865	587	606	509
15	349	1250	303	925	870	2080	2760	1550	720	539	527	486
16	359	1030	412	813	850	1890	2800	1750	762	533	503	480
17	344	933	964	370	880	1780	5570	2140	828	509	486	480
18	308	887	820	350	1050	1640	6030	2030	755	503	563	509
19	313	842	575	330	1120	4730	5930	1760	706	457	646	503
20	323	850	480	300	1070	8730	9020	1590	748	365	563	486
21	323	806	434	290	995	8660	9410	1600	720	333	527	509
22	323	784	407	280	1000	7590	7630	1580	706	333	503	727
23	318	769	391	587	1030	6280	5940	1980	646	359	545	734
24	303	652	423	1230	1050	4350	5530	2220	587	407	527	639
25	284	480	486	1770	1030	3230	7250	1930	521	521	515	606
26	407	434	575	1440	987	2700	7110	1700	451	434	509	594
27	451	418	665	1090	918	2320	6150	2170	626	344	503	594
28	380	418	575	887	887	3590	5220	2710	798	338	521	581
29	344	450	480	791	---	4290	4700	2180	1290	318	587	575
30	323	500	480	727	---	3600	4590	2130	1030	298	563	575
31	313	---	474	550	---	2930	---	2370	---	386	539	---
TOTAL	14109	22669	13451	26099	37437	104718	141630	73130	37449	15328	17764	15757
MEAN	455	756	434	842	1337	3378	4721	2359	1248	494	573	525
MAX	1030	1630	964	3020	4810	8730	9410	4510	2690	820	734	734
MIN	284	303	270	280	500	918	2230	1450	451	298	418	451
(†)	-91.9	-202.9	+139.4	+379	+464.6	+943.6	+516	-231.1	+39.2	-124.8	-252.2	-346.4
MEAN ‡	363	553	573	1221	1802	4322	5237	2128	1287	369	321	179
CFSM ‡	0.63	0.96	0.99	2.12	3.12	7.49	9.08	3.69	2.23	0.64	0.56	0.31
IN ‡	0.73	1.07	1.14	2.44	3.25	8.64	10.13	4.25	2.49	0.74	0.65	0.35
CAL YR 1982 TOTAL	413678			MEAN 1133	MAX 13500	MIN 270	MEAN ‡ 1222	CFSM ‡ 2.12	IN ‡ 29.02			
WTR YR 1983 TOTAL	419541			MEAN 1423	MAX 9410	MIN 270	MEAN ‡ 1524	CFSM ‡ 2.64	IN ‡ 35.88			

† Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug, and Whigville Reservoirs, Whites Bridge Wells and Coppermine Brook, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

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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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 18...	1400	280	150	7.3	14.0	10.5	2.0	10.0	89	480	88
NOV 17...	1420	872	102	7.0	10.0	5.5	1.0	12.0	95	2000	2500
DEC 13...	1330	260	167	7.2	<-5.0	0.5	2.0	13.6	94	2200	1200
JAN 11...	1515	3400	85	6.9	12.0	3.0	4.7	12.7	97	3700	21000
MAR 01...	1315	865	126	7.0	9.0	4.0	1.0	13.6	105	1400	740
APR 11...	1425	6420	59	6.9	15.0	7.0	1.7	11.7	98	1300	8000
MAY 17...	0930	2090	92	7.1	10.0	10.5	0.4	10.6	95	440	1500
JUN 13...	1230	1030	107	6.9	28.0	20.0	0.5	9.3	101	56	45
JUL 11...	1330	405	132	7.1	24.0	22.0	0.4	8.8	100	92	1200
AUG 08...	1330	548	111	6.9	31.5	24.0	0.2	7.8	93	400	1100
SEP 01...	1050	500	98	6.7	23.0	21.0	1.0	7.4	83	840	1500

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- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 18...	--	--	--	--	--	15	14	--	95	29	0.13
NOV 17...	26	11	7.6	1.8	15	10	9.6	6.1	63	44	0.09
DEC 13...	--	--	--	--	--	15	15	--	97	30	0.13
JAN 11...	22	10	6.4	1.4	12	9.0	8.8	5.4	63	38	0.09
MAR 01...	--	--	--	--	--	13	14	--	69	27	0.09
APR 11...	--	--	--	--	--	5.0	6.1	--	41	11	0.06
MAY 17...	26	10	7.7	1.6	16	10	7.8	5.9	58	43	0.08
JUN 13...	--	--	--	--	--	10	10	--	72	20	0.1
JUL 11...	39	14	12	2.3	25	12	14	6.8	85	62	0.12
AUG 08...	--	--	--	--	--	10	11	--	65	21	0.09
SEP 01...	--	--	--	--	--	10	9.9	--	53	20	0.07

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 18...	71.8	101	1.2	0.04	1.2	0.25	1.4	1.60	2.8	0.31
NOV 17...	148	64	0.59	0.01	0.6	0.25	0.35	0.6	1.2	0.14
DEC 13...	68.1	103	1.2	0.01	1.2	0.56	0.64	1.20	2.4	0.39
JAN 11...	578	--	0.48	0.02	0.5	0.32	0.28	0.6	1.1	0.36
MAR 01...	161	88	0.69	0.01	0.7	0.30	0.2	0.5	1.2	0.12
APR 11...	711	--	0.19	0.01	0.2	0.04	0.36	0.4	0.6	0.10
MAY 17...	327	66	0.38	0.02	0.4	0.14	0.56	0.7	1.1	0.09
JUN 13...	200	78	0.59	0.01	0.6	0.10	0.5	0.6	1.2	0.08
JUL 11...	92.9	83	0.86	0.04	0.9	0.13	0.47	0.6	1.5	0.25
AUG 08...	96.2	83	0.56	0.04	0.6	0.20	0.7	0.9	1.5	0.19
SEP 01...	71.5	66	0.54	0.06	0.6	0.29	0.31	0.6	1.2	0.16

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM, DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	0.28	1	<1	5	--	<1	--	5	10	5.1
NOV 17...	0.10	<1	<1	3	150	<1	29	5	7.00	3.8
DEC 13...	0.33	5	<1	3	--	3	--	10	10	4.7
JAN 11...	0.10	2	3	3	190	1	64	1	<4.00	6.5
MAR 01...	0.09	1	4	2	--	3	--	4	10	3.0
APR 11...	0.02	1	<1	5	--	6	--	2	30	5.0
MAY 17...	0.05	1	<1	5	140	4	40	2	3.00	2.8
JUN 13...	0.07	1	1	<1	--	<1	--	<1	10	3.2
JUL 11...	0.21	<1	<1	8	120	2	72	2	29	3.6
AUG 08...	0.17	1	<1	10	--	<1	--	2	10	3.8
SEP 01...	0.15	1	<1	5	--	<1	--	1	10	2.5

CONNECTICUT RIVER BASIN

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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, 32.5°C July 21, 1977; minimum, 0.0°C March 17-18, 1978, April 8, 1982. Farmington River, maximum, 29.0°C July 22, 1980; minimum, 0.0°C on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum, 28.5°C July 4; minimum, 3.5°C March 25, 26. Farmington River, maximum, 27.0°C July 21; minimum, 0.0°C on many days during the winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

TAKEN IN FISHWAY												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	11.0	10.0	10.5						
2	18.0	17.5	17.5	13.0	11.0	12.0						
3	19.5	17.0	18.0	14.0	12.0	13.0						
4	18.0	17.5	18.0	15.0	14.0	14.5						
5	---	---	---	14.5	14.5	14.5						
6	---	---	---	14.5	13.0	14.0						
7	---	---	---	12.5	12.0	12.5						
8	18.0	17.5	17.5	12.0	11.0	11.5						
9	17.5	16.5	17.0	11.5	10.0	11.0						
10	16.5	15.5	16.0	10.0	9.5	10.0						
11	15.5	14.5	15.0	9.5	9.0	9.0						
12	15.0	14.0	14.5	9.5	9.0	9.0						
13	14.5	13.5	14.0	9.5	8.5	9.0						
14	15.0	13.5	14.5	9.5	9.0	9.0						
15	14.5	13.5	14.0	9.0	7.5	8.5						
16	14.0	13.0	13.5	---	---	---						
17	13.5	13.0	13.5	---	---	---						
18	14.0	13.0	13.5	---	---	---						
19	13.5	12.5	13.0	---	---	---						
20	13.5	12.0	13.0	---	---	---						
21	13.5	12.5	13.0	---	---	---						
22	12.5	12.0	12.0	---	---	---						
23	12.0	11.0	12.0	---	---	---						
24	---	---	---	---	---	---						
25	---	---	---	---	---	---						
26	---	---	---	---	---	---						
27	---	---	---	---	---	---						
28	9.5	8.5	9.0	---	---	---						
29	10.0	9.0	9.5	---	---	---						
30	11.5	9.5	10.0	---	---	---						
31	10.5	9.5	10.0	---	---	---						
MONTH	19.5	8.5	14.0	15.0	7.5	11.0						

CONNECTICUT RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

TAKEN IN FISHWAY

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

CONNECTICUT RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

TAKEN IN TAILRACE

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

CONNECTICUT RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

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.--590 mi² (1,528 km²) rev.

PERIOD OF RECORD.--August 1928 to current year. Prior to 1940, published as "at Tariffville."

REVISED RECORDS.--WSP 851: 1936. WSP 1051: 1945 (m). WSP 1301: 1937-43 (adjusted figures of monthly and yearly discharges and runoff). WSP 1431: Drainage area. WDR CT-80-1: 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, except those for no gage-height record on Dec. 26 to Jan. 27, which are fair. 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.170), and by diversions for municipal supply from Barkhamsted, Nepaug, Whigville Reservoir, Whites Bridge Wells and Coppermine Brook. Chemical analyses available for water years 1953 (WSP 1290), 1958 (WSP 1571), 1968-70 (WSP 2091, 2143, 2151), 1971 (WRDC 1971). Flow of 250 ft³/s (7.08 m³/s) released from Lake McDonough Aug. 22 to Sept. 30, 1983, as same flow was reduced at Hogback Reservoir for construction of hydropower plant.

AVERAGE DISCHARGE (adjusted to present site; adjusted for storage and diversion).--55 years, 1,101 ft³/s (31.18 m³/s), 25.60 in/yr (650 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, 10,600 ft³/s (300 m³/s) Apr. 21, gage height, 8.30 ft (2.530 m); minimum daily, 42 ft³/s (1.19 m³/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	681	467	724	332	850	1140	2570	4470	2010	763	378	598
2	510	294	526	544	800	1320	2500	4280	1820	607	967	459
3	672	1030	615	355	2460	2730	2320	4150	2140	650	535	650
4	592	733	395	459	4940	2440	2540	4100	2530	535	834	378
5	575	724	234	309	3110	2000	2980	3840	2510	526	753	403
6	558	1050	355	451	2110	1800	2610	3460	2140	1010	562	517
7	575	944	403	633	1680	1800	2400	2560	2020	824	696	598
8	503	783	508	1020	1600	2240	2180	2180	1870	659	813	403
9	1320	668	363	347	1450	3170	2420	2210	1660	428	451	403
10	1070	650	451	705	1350	2990	2500	2050	1640	696	435	686
11	451	686	435	1770	1250	2810	5940	1590	1280	170	562	355
12	921	813	294	2790	1200	3200	6470	1430	1030	324	705	443
13	562	1350	526	1840	1150	3270	4590	1480	944	483	677	544
14	386	1520	187	1360	1100	2640	3090	1570	967	793	803	659
15	324	1550	287	1030	1050	2060	2640	1420	677	562	590	517
16	451	866	641	834	1000	2050	2690	1680	834	633	459	553
17	253	877	834	750	1000	2020	5480	1930	834	451	483	641
18	403	866	845	650	1320	1830	6060	2010	696	508	686	199
19	641	978	562	467	1320	3840	6070	1870	724	650	866	834
20	411	921	517	500	1160	9100	9400	1660	866	355	467	517
21	170	724	451	470	1150	9280	10100	1610	607	363	483	386
22	411	855	378	450	1150	7850	7870	1470	813	633	877	668
23	932	753	428	430	1290	6380	5890	1740	773	598	273	1120
24	641	866	451	1100	1220	4370	5540	2020	403	467	475	544
25	41	500	491	1360	1090	3240	7330	2010	686	607	517	467
26	316	553	526	1470	1130	2670	7150	1830	571	571	553	526
27	363	535	733	1220	1140	2510	6090	2070	370	526	696	677
28	491	347	641	1100	1130	3120	5150	2470	1170	74	508	705
29	332	571	420	1000	---	4350	4600	2120	1150	266	571	607
30	355	615	483	900	---	3670	4520	2180	1140	240	607	553
31	211	---	467	880	---	2890	---	2290	---	155	580	---
TOTAL	16122	24089	15171	27526	41200	104780	141690	71750	36875	16127	18862	16610
MEAN†	520	803	489	888	1471	3380	4723	2315	1229	520	608	554
MAX	1320	1550	845	2790	4940	9280	10100	4470	2530	1010	967	1120
MIN	41	294	187	309	800	1140	2180	1420	370	74	273	199
(†)	-91.9	-202.9	+139.4	+379	+464.6	+943.6	+516	-231.1	+39.2	-124.8	-252.2	-346.4
MEAN‡	438	600	628	1267	1936	4324	5239	2084	1268	395	356	108
CFSM‡	0.74	1.02	1.06	2.15	3.28	7.33	8.88	3.53	2.15	0.67	0.60	0.18
IN ‡	0.85	1.14	1.22	2.48	3.42	8.45	9.91	4.07	2.40	0.77	0.69	0.20

CAL YR 1982 TOTAL 453776 MEAN 1243 MAX 18100 MIN 41 MEAN‡ 1332 CFSM‡ 2.26 IN‡ 30.71
WTR YR 1983 TOTAL 530802 MEAN 1454 MAX 10100 MIN 41 MEAN‡ 1555 CFSM‡ 2.64 IN‡ 35.60

† Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug, and Whigville Reservoirs, Whites Bridge Wells and Coppermine Brook, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡ Adjusted for diversion and change in contents.

CONNECTICUT RIVER BASIN

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.--10,493 mi² (27,176 km²) rev.

WATER-STAGE RECORD

PERIOD OF RECORD.--January 1905 to current year.

GAGE.--Water-stage recorder. Datum of staff gage is 0.55 ft (0.168 m) below National Geodetic Vertical Datum of 1929. Datum of gage-height record is 10.00 ft (3.048 m) below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Records prior to 1973 available at the River Forecast Center, NOAA, Bloomfield, Conn. At times of high fresh-water inflow, tide effect is eliminated. Stage data in feet at 15-minute intervals available upon request.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 313,000 ft³/s (7,450 m³/s) Mar. 20, 1936; maximum elevation, 37.05 ft (11.293 m) Mar. 21, 1936; minimum tidal elevation (1973-81), -0.91 ft (-0.277 m) Aug. 12, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 94,000 ft³/s (2,660 m³/s) Apr. 27, elevation, about 20.0 ft (6.10 m); minimum tidal elevation, 0.06 ft (0.018 m) Oct. 17.

ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	4.25	4.34	4.79	7.76	9.94	18.33	about 20.0	17.93	12.20	3.88	4.49	3.78
	Date	10	15	19	13	5	22	27	5	1	9	13	1
	Time	2100	0300	1730	0345	0115	1030		0745	2015	0130	1845	2145
Minimum	Elevation	0.06	0.93	0.83	0.78	2.49	2.50	5.46	5.85	0.92	0.23	0.36	0.17
	Date	17	27	12	9	28	1	3	22	27	31	27	25
	Time	2300	2015	0815	0730	1145	0015	0315	2015	1245	1430	1245	1215

NOTE.--Time shown is eastern standard.

CONNECTICUT RIVER BASIN

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01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

PERIOD OF RECORD.--September 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1015	1.0	150	7.3	14.0	12.0	2.0	9.9	90	3100	6400
NOV 15...	1130	1.0	126	7.3	6.0	8.5	1.0	11.2	96	4000	4000
DEC 14...	1145	1.0	148	7.2	0.0	0.0	1.9	13.7	93	5400	11000
JAN 12...	1300	1.0	99	7.1	7.0	2.0	6.0	13.5	99	4400	19000
MAR 07...	1130	1.0	96	7.2	5.5	2.5	4.5	13.6	99	1500	540
APR 13...	1110	1.0	72	7.1	14.5	6.0	3.1	12.8	102	880	1600
MAY 18...	1030	1.0	90	7.2	13.0	11.5	0.6	10.7	96	460	1300
JUN 14...	1010	1.0	110	6.9	26.0	21.5	0.3	7.5	84	1300	24000
JUL 12...	1015	1.0	140	7.3	24.5	24.0	0.5	8.4	99	1100	13000
AUG 09...	1030	1.0	150	7.4	26.0	26.5	0.4	7.4	92	2000	1500
SEP 02...	0850	1.0	144	7.1	21.0	23.5	1.0	6.4	75	420	22000

DATE	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 LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 20...	--	--	--	--	--	15	13	--	97	28
NOV 15...	40	11	13	1.8	29	10	9.9	5.2	69	57
DEC 14...	--	--	--	--	--	12	10	--	88	22
JAN 12...	27	11	8.4	1.5	16	11	9.8	5.8	58	46
MAR 07...	--	--	--	--	--	12	9.2	--	57	21
APR 13...	--	--	--	--	--	5.0	5.7	--	46	11
MAY 18...	31	10	9.7	1.6	21	10	6.7	5.8	75	47
JUN 14...	--	--	--	--	--	11	9.3	--	77	20
JUL 12...	47	15	15	2.2	32	14	14	3.2	96	68
AUG 09...	--	--	--	--	--	12	14	--	88	26
SEP 02...	--	--	--	--	--	12	12	--	75	24

CONNECTICUT RIVER BASIN

01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
OCT 20...	0.13	95	0.48	0.02	0.5	0.17	0.23	0.4	0.9	0.12
NOV 15...	0.09	87	0.39	<0.01	0.4	0.13	1.6	1.70	2.1	0.07
DEC 14...	0.12	95	0.59	0.01	0.6	0.28	0.62	0.9	1.5	0.11
JAN 12...	0.08	--	0.49	0.01	0.5	0.18	0.22	0.4	0.9	0.20
MAR 07...	0.08	77	0.39	<0.01	0.4	0.10	0.2	0.3	0.7	0.05
APR 13...	0.06	75	0.19	<0.01	0.2	0.03	0.37	0.4	0.6	0.08
MAY 18...	0.1	77	0.29	<0.01	0.3	0.06	0.44	0.5	0.8	0.04
JUN 14...	0.1	86	0.29	<0.01	0.3	0.13	0.37	0.5	0.8	0.05
JUL 12...	0.13	106	0.29	0.01	0.3	0.02	0.78	0.8	1.1	0.09
AUG 09...	0.12	100	0.29	0.01	0.3	0.04	0.76	0.8	1.1	0.09
SEP 02...	0.1	93	0.39	0.01	0.4	0.12	0.38	0.5	0.9	0.08

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	0.08	<1	<1	6	--	2	--	3	10	5.4
NOV 15...	0.04	<1	<1	2	96	1	13	1	6.00	4.4
DEC 14...	0.08	1	1	4	--	7	--	2	10	4.1
JAN 12...	0.06	<1	3	1	120	1	34	1	<4.00	4.4
MAR 07...	0.03	1	5	2	--	3	--	4	10	3.0
APR 13...	<0.01	1	<1	4	--	5	--	3	<10	4.2
MAY 18...	0.03	1	<1	7	99	3	22	1	10	3.8
JUN 14...	0.04	1	3	3	--	<1	--	<1	10	4.0
JUL 12...	0.05	<1	<1	20	44	3	19	1	17	4.9
AUG 09...	0.06	1	<1	11	--	1	--	3	20	3.5
SEP 02...	0.06	1	<1	5	--	<1	--	1	10	3.5

CONNECTICUT RIVER BASIN

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01190095 PIPER BROOK AT NEW BRITAIN, CT

LOCATION.--Lat 41°40'53", long 72°45'45", Hartford County, Hydrologic Unit 01080205, 20 ft (6 m) west of East Street on left bank, 0.5 mi (0.8 km) upstream from New Britain and Newington town line, at New Britain.

DRAINAGE AREA.--2.26 mi² (5.85 km²).

PERIOD OF RECORD.--May 7, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 89.32 ft (27.225 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 656 ft³/s (18.6 m³/s) June 5, 1982, gage height, 4.45 ft (1.356 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 315 ft³/s (8.92 m³/s) Apr. 10.

REVISIONS.--The maximum discharge for water year 1980 has been revised to 434 ft³/s (12.3 m³/s) July 29, 1980, superseding figures published in the report for 1980.

DATE: APR. 3, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	4.6	043000	4.4	084500	101	130000	57	171500	32	213000	9.6
003000	4.6	044500	4.5	090000	108	131500	27	173000	30	214500	9.6
004500	4.6	050000	4.5	091500	101	133000	59	174500	42	220000	8.7
010000	4.6	051500	4.5	093000	130	134500	79	180000	40	221500	8.7
011500	4.6	053000	4.5	094500	86	140000	86	181500	30	223000	8.7
013000	4.6	054500	4.8	100000	70	141500	65	183000	27	224500	8.7
014500	4.4	060000	4.8	101500	85	143000	27	184500	20	230000	8.1
020000	4.4	061500	4.9	103000	76	144500	21	190000	15	231500	8.7
021500	4.4	063000	5.3	104500	120	150000	22	191500	17	233000	5.7
023000	4.4	064500	7.8	110000	134	151500	13	193000	37	234500	6.3
024500	4.4	070000	24	111500	114	153000	24	194500	28	240000	8.1
030000	4.4	071500	28	113000	88	154500	41	200000	20		
031500	4.4	073000	29	114500	77	160000	94	201500	18		
033000	4.4	074500	42	120000	63	161500	73	203000	16		
034500	4.4	080000	88	121500	36	163000	71	204500	8.7		
040000	4.4	081500	86	123000	52	164500	57	210000	11		
041500	4.4	083000	110	124500	44	170000	27	211500	10.0		

DATE: APR. 16, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	5.3	043000	5.3	084500	4.7	130000	5.7	171500	6.0	213000	120
003000	5.3	044500	5.3	090000	4.7	131500	5.7	173000	6.0	214500	85
004500	5.3	050000	5.3	091500	5.3	133000	6.2	174500	6.8	220000	101
010000	5.3	051500	5.3	093000	4.7	134500	6.0	180000	17	221500	55
011500	5.3	053000	4.7	094500	4.7	140000	11	181500	47	223000	93
013000	5.3	054500	4.7	100000	4.7	141500	36	183000	88	224500	101
014500	5.3	060000	4.7	101500	4.7	143000	31	184500	96	230000	103
020000	5.3	061500	4.7	103000	4.7	144500	26	190000	93	231500	116
021500	5.3	063000	5.3	104500	5.5	150000	20	191500	85	233000	94
023000	5.3	064500	4.7	110000	5.5	151500	15	193000	88	234500	108
024500	5.3	070000	5.3	111500	5.5	153000	10.0	194500	101	240000	47
030000	5.3	071500	5.3	113000	5.3	154500	9.1	200000	118		
031500	5.3	073000	5.3	114500	5.3	160000	8.7	201500	103		
033000	5.3	074500	4.7	120000	5.5	161500	8.4	203000	108		
034500	5.3	080000	4.7	121500	5.7	163000	7.4	204500	118		
040000	5.3	081500	4.7	123000	6.0	164500	7.1	210000	70		
041500	5.3	083000	4.7	124500	6.0	170000	6.2	211500	94		

01190095 PIPER BROOK AT NEW BRITAIN, CT--Continued

DATE: APR. 17, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	18	043000	101	084500	36	130000	20	171500	11	213000	11
003000	12	044500	101	090000	30	131500	20	173000	13	214500	9.1
004500	14	050000	120	091500	27	133000	20	174500	11	220000	10.0
010000	13	051500	101	093000	26	134500	19	180000	11	221500	8.7
011500	77	053000	103	094500	24	140000	13	181500	11	223000	9.1
013000	121	054500	91	100000	28	141500	15	183000	11	224500	9.1
014500	108	060000	76	101500	24	143000	14	184500	11	230000	9.1
020000	121	061500	83	103000	23	144500	14	190000	9.1	231500	8.7
021500	80	063000	83	104500	21	150000	14	191500	11	233000	9.1
023000	120	064500	73	110000	22	151500	14	193000	10.0	234500	8.7
024500	144	070000	55	111500	22	153000	13	194500	11	240000	9.5
030000	121	071500	57	113000	20	154500	14	200000	11		
031500	82	073000	46	114500	22	160000	13	201500	11		
033000	108	074500	41	120000	20	161500	13	203000	10.0		
034500	103	080000	44	121500	20	163000	11	204500	10.0		
040000	50	081500	36	123000	20	164500	12	210000	9.5		
041500	91	083000	27	124500	21	170000	11	211500	9.1		

DATE: APR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	7.4	043000	6.0	084500	66	130000	116	171500	74	213000	13
003000	7.1	044500	6.8	090000	63	131500	45	173000	70	214500	12
004500	6.8	050000	7.1	091500	50	133000	58	174500	59	220000	12
010000	7.1	051500	6.0	093000	36	134500	17	180000	59	221500	13
011500	6.8	053000	7.1	094500	24	140000	8.7	181500	46	223000	12
013000	7.1	054500	6.0	100000	14	141500	14	183000	50	224500	11
014500	6.8	060000	7.1	101500	12	143000	17	184500	99	230000	12
020000	7.1	061500	7.1	103000	9.1	144500	12	190000	98	231500	8.7
021500	7.1	063000	7.4	104500	11	150000	10.0	191500	13	233000	12
023000	7.1	064500	9.5	110000	9.1	151500	116	193000	17	234500	12
024500	6.8	070000	12	111500	9.1	153000	98	194500	16	240000	12
030000	6.8	071500	20	113000	11	154500	91	200000	13		
031500	7.1	073000	50	114500	11	160000	120	201500	14		
033000	6.8	074500	71	120000	9.1	161500	123	203000	12		
034500	6.0	080000	52	121500	12	163000	88	204500	14		
040000	6.8	081500	51	123000	30	164500	86	210000	14		
041500	6.8	083000	62	124500	85	170000	82	211500	13		

DATE: AUG. 11, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.0	043000	2.0	084500	2.3	130000	3.6	171500	4.3	213000	11
003000	2.0	044500	2.0	090000	2.3	131500	3.2	173000	5.3	214500	8.4
004500	2.0	050000	2.0	091500	2.3	133000	2.9	174500	6.2	220000	6.2
010000	2.0	051500	2.0	093000	2.3	134500	2.8	180000	6.5	221500	5.1
011500	2.0	053000	2.0	094500	2.3	140000	2.7	181500	6.2	223000	4.3
013000	2.0	054500	2.0	100000	2.3	141500	2.7	183000	6.2	224500	3.8
014500	2.0	060000	2.0	101500	2.4	143000	2.5	184500	15	230000	3.5
020000	2.0	061500	2.0	103000	3.1	144500	2.4	190000	79	231500	3.1
021500	2.0	063000	2.0	104500	11	150000	2.4	191500	93	233000	2.9
023000	2.0	064500	2.0	110000	62	151500	2.5	193000	66	234500	2.8
024500	2.0	070000	2.0	111500	40	153000	2.7	194500	42	240000	2.5
030000	2.0	071500	2.1	113000	34	154500	2.8	200000	38		
031500	2.0	073000	2.2	114500	22	160000	4.0	201500	42		
033000	2.0	074500	2.2	120000	12	161500	8.0	203000	39		
034500	2.0	080000	2.3	121500	7.4	163000	7.4	204500	23		
040000	2.0	081500	2.3	123000	5.3	164500	5.3	210000	20		
041500	2.0	083000	2.3	124500	4.2	170000	4.5	211500	15		

01190095 PIPER BROOK AT NEW BRITAIN, CT--Continued

DATE: AUG. 12, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.5	043000	3.4	084500	4.9	130000	101	171500	2.9	213000	2.2
003000	2.4	044500	2.9	090000	4.2	131500	57	173000	2.8	214500	2.1
004500	2.4	050000	2.8	091500	3.8	133000	44	174500	2.7	220000	2.1
010000	2.4	051500	2.5	093000	5.1	134500	56	180000	2.5	221500	2.1
011500	2.9	053000	2.5	094500	98	140000	63	181500	2.5	223000	2.1
013000	4.0	054500	2.4	100000	50	141500	41	183000	2.5	224500	2.0
014500	6.5	060000	2.4	101500	43	143000	24	184500	2.4	230000	2.1
020000	9.5	061500	2.4	103000	34	144500	14	190000	2.4	231500	2.0
021500	11	063000	2.8	104500	26	150000	10.0	191500	2.4	233000	2.0
023000	8.4	064500	8.7	110000	132	151500	7.7	193000	2.4	234500	2.0
024500	6.5	070000	23	111500	98	153000	5.7	194500	2.3	240000	2.0
030000	5.7	071500	20	113000	155	154500	4.7	200000	2.3		
031500	5.7	073000	11	114500	118	160000	4.0	201500	2.3		
033000	5.7	074500	11	120000	65	161500	3.6	203000	2.3		
034500	5.3	080000	9.9	121500	54	163000	3.4	204500	2.2		
040000	4.5	081500	8.0	123000	61	164500	3.2	210000	2.2		
041500	3.8	083000	6.0	124500	99	170000	3.1	211500	2.2		

DATE: SEP. 21, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	1.9	043000	1.8	084500	2.0	130000	2.1	171500	1.8	213000	80
003000	1.9	044500	1.8	090000	2.0	131500	2.1	173000	1.9	214500	63
004500	1.9	050000	1.8	091500	2.1	133000	2.1	174500	1.9	220000	42
010000	1.8	051500	1.8	093000	2.1	134500	2.1	180000	1.9	221500	88
011500	1.8	053000	1.8	094500	2.0	140000	2.1	181500	1.9	223000	112
013000	1.8	054500	1.8	100000	2.0	141500	2.0	183000	1.9	224500	80
014500	1.8	060000	1.8	101500	2.0	143000	2.1	184500	1.9	230000	45
020000	1.8	061500	1.8	103000	2.1	144500	2.1	190000	1.8	231500	27
021500	1.8	063000	1.9	104500	2.0	150000	2.0	191500	1.8	233000	57
023000	1.8	064500	1.9	110000	2.0	151500	2.0	193000	1.8	234500	16
024500	1.8	070000	1.9	111500	2.0	153000	2.0	194500	1.8	240000	114
030000	1.8	071500	1.9	113000	2.0	154500	2.0	200000	1.9		
031500	1.8	073000	1.9	114500	2.1	160000	1.9	201500	66		
033000	1.8	074500	2.0	120000	2.1	161500	1.9	203000	65		
034500	1.8	080000	2.0	121500	2.0	163000	1.9	204500	42		
040000	1.8	081500	2.1	123000	2.0	164500	1.9	210000	49		
041500	1.8	083000	2.1	124500	2.1	170000	1.9	211500	93		

DATE: SEP. 22, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	86	043000	5.1	084500	2.3	130000	2.0	171500	1.8	213000	1.7
003000	136	044500	4.3	090000	2.2	131500	2.0	173000	1.8	214500	1.7
004500	108	050000	4.0	091500	2.2	133000	2.0	174500	1.8	220000	1.7
010000	138	051500	3.6	093000	2.2	134500	2.0	180000	1.7	221500	1.7
011500	106	053000	3.4	094500	2.1	140000	2.0	181500	1.7	223000	1.7
013000	74	054500	3.1	100000	2.1	141500	1.9	183000	1.7	224500	1.7
014500	57	060000	2.9	101500	2.1	143000	1.9	184500	1.7	230000	1.7
020000	52	061500	2.8	103000	2.2	144500	1.9	190000	1.7	231500	1.7
021500	59	063000	2.7	104500	2.1	150000	1.9	191500	1.7	233000	1.7
023000	49	064500	2.5	110000	2.1	151500	1.9	193000	1.7	234500	1.7
024500	38	070000	2.4	111500	2.0	153000	1.9	194500	1.7	240000	1.7
030000	23	071500	2.4	113000	2.0	154500	1.9	200000	1.7		
031500	21	073000	2.4	114500	2.0	160000	1.8	201500	1.7		
033000	20	074500	2.4	120000	2.0	161500	1.8	203000	1.7		
034500	15	080000	2.4	121500	2.0	163000	1.8	204500	1.7		
040000	9.9	081500	2.3	123000	2.0	164500	1.8	210000	1.7		
041500	6.5	083000	2.3	124500	2.0	170000	1.8	211500	1.7		

414053072454502 RAIN GAGE AT EAST STREET AT NEW BRITAIN, CT

LOCATION.--Lat 41°40'53", long 72°45'45", Hartford County, Hydrologic Unit 01080205, 20 ft (6 m) west of East Street on left bank, 0.5 mi (0.8 km) upstream from New Britain and Newington town line, in Piper Brook drainage basin, at New Britain.

PERIOD OF RECORD.--July 10, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.24 in (6.10 mm) July 23, 1980; maximum for 15 minutes, 0.47 in (11.9 mm) July 23, 1980; maximum for 30 minutes 0.90 in (22.9 mm) July 23, 1980, Aug. 5, 1981; maximum hourly, 1.20 in (30.5 mm) Sept. 8, 1981; maximum daily, about 7.7 in (about 196 mm) June 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.15 in (3.81 mm) Sept. 21; maximum for 15 minutes, 0.24 in (6.10 mm) Sept. 21; maximum for 30 minutes 0.32 in (8.13 mm) Nov. 13; maximum hourly, 0.54 in (13.7 mm) Apr. 19; maximum daily, 2.88 in (73.2 mm) Apr. 10.

DATE: NOV. 13, 1982

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
003000	0.01	023000	0.07	043000	0.04	063000	0.05	083000	0.06	103000	0.02
004500	0.01	024500	0.05	044500	0.04	064500	0.02	084500	0.04	104500	0.01
010000	0.01	030000	0.07	050000	0.04	070000	0.03	090000	0.04		
011500	0.01	031500	0.03	051500	0.03	071500	0.03	091500	0.04		
013000	0.01	033000	0.07	053000	0.05	073000	0.04	093000	0.02		
014500	0.04	034500	0.23	054500	0.06	074500	0.06	094500	0.01		
020000	0.03	040000	0.07	060000	0.03	080000	0.06	100000	0.01		
021500	0.04	041500	0.04	061500	0.06	081500	0.05	101500	0.01		

DATE: APR. 3, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
010000	0.000	041500	0.000	073000	0.05	104500	0.08	140000	0.02	171500	0.02
011500	0.000	043000	0.000	074500	0.05	110000	0.07	141500	0.000	173000	0.03
013000	0.000	044500	0.000	080000	0.05	111500	0.02	143000	0.000	174500	0.02
014500	0.000	050000	0.000	081500	0.06	113000	0.02	144500	0.000	180000	0.01
020000	0.000	051500	0.01	083000	0.06	114500	0.02	150000	0.000	181500	0.000
021500	0.000	053000	0.000	084500	0.05	120000	0.02	151500	0.02	183000	0.000
023000	0.000	054500	0.000	090000	0.06	121500	0.02	153000	0.01	184500	0.000
024500	0.000	060000	0.000	091500	0.07	123000	0.03	154500	0.05	190000	0.01
030000	0.000	061500	0.01	093000	0.04	124500	0.02	160000	0.02	191500	0.01
031500	0.000	063000	0.02	094500	0.03	130000	0.02	161500	0.06		
033000	0.000	064500	0.02	100000	0.05	131500	0.03	163000	0.02		
034500	0.000	070000	0.01	101500	0.05	133000	0.04	164500	0.02		
040000	0.000	071500	0.01	103000	0.10	134500	0.05	170000	0.000		

414053072454502 RAIN GAGE AT EAST STREET AT NEW BRITAIN, CT--Continued

DATE: APR. 10, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
060000	0.01	084500	0.000	113000	0.000	141500	0.09	170000	0.08	194500	0.04
061500	0.000	090000	0.01	114500	0.000	143000	0.04	171500	0.08	200000	0.04
063000	0.000	091500	0.01	120000	0.01	144500	0.09	173000	0.09	201500	0.08
064500	0.000	093000	0.000	121500	0.05	150000	0.12	174500	0.09	203000	0.06
070000	0.000	094500	0.000	123000	0.09	151500	0.15	180000	0.09	204500	0.03
071500	0.000	100000	0.04	124500	0.09	153000	0.12	181500	0.03	210000	0.000
073000	0.000	101500	0.02	130000	0.09	154500	0.13	183000	0.07	211500	0.000
074500	0.000	103000	0.000	131500	0.10	160000	0.13	184500	0.08	213000	0.01
080000	0.000	104500	0.000	133000	0.09	161500	0.08	190000	0.03		
081500	0.01	110000	0.01	134500	0.06	163000	0.07	191500	0.04		
083000	0.000	111500	0.000	140000	0.06	164500	0.08	193000	0.09		

DATE: APR. 16, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
071500	0.01	101500	0.01	131500	0.05	161500	0.04	191500	0.06	221500	0.04
073000	0.000	103000	0.000	133000	0.04	163000	0.07	193000	0.08	223000	0.06
074500	0.000	104500	0.000	134500	0.03	164500	0.06	194500	0.03	224500	0.04
080000	0.01	110000	0.000	140000	0.03	170000	0.06	200000	0.03	230000	0.05
081500	0.000	111500	0.000	141500	0.06	171500	0.05	201500	0.02	231500	0.04
083000	0.01	113000	0.000	143000	0.05	173000	0.05	203000	0.04	233000	0.04
084500	0.04	114500	0.000	144500	0.06	174500	0.05	204500	0.05	234500	0.04
090000	0.02	120000	0.000	150000	0.04	180000	0.05	210000	0.06	240000	0.03
091500	0.01	121500	0.01	151500	0.06	181500	0.06	211500	0.07		
093000	0.01	123000	0.01	153000	0.06	183000	0.05	213000	0.04		
094500	0.000	124500	0.01	154500	0.07	184500	0.08	214500	0.01		
100000	0.000	130000	0.10	160000	0.05	190000	0.07	220000	0.01		

DATE: APR. 17, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.04	010000	0.02	014500	0.000	023000	0.000				
003000	0.02	011500	0.01	020000	0.01	024500	0.000				
004500	0.03	013000	0.01	021500	0.000	030000	0.01				

CONNECTICUT RIVER BASIN

414053072454502 RAIN GAGE AT EAST STREET AT NEW BRITAIN, CT--Continued

DATE: APR. 19, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
023000	0.01	061500	0.000	100000	0.10	134500	0.01	173000	0.000	211500	0.01
024500	0.01	063000	0.000	101500	0.14	140000	0.01	174500	0.02	213000	0.000
030000	0.01	064500	0.000	103000	0.16	141500	0.01	180000	0.02	214500	0.000
031500	0.02	070000	0.000	104500	0.13	143000	0.01	181500	0.01	220000	0.01
033000	0.06	071500	0.000	110000	0.11	144500	0.01	183000	0.01	221500	0.000
034500	0.02	073000	0.000	111500	0.06	150000	0.03	184500	0.000	223000	0.01
040000	0.03	074500	0.000	113000	0.05	151500	0.04	190000	0.000	224500	0.000
041500	0.03	080000	0.000	114500	0.01	153000	0.03	191500	0.000	230000	0.01
043000	0.02	081500	0.000	120000	0.02	154500	0.04	193000	0.000	231500	0.000
044500	0.03	083000	0.000	121500	0.03	160000	0.02	194500	0.000	233000	0.01
050000	0.03	084500	0.02	123000	0.000	161500	0.000	200000	0.000	234500	0.000
051500	0.01	090000	0.05	124500	0.01	163000	0.01	201500	0.000	240000	0.01
053000	0.000	091500	0.05	130000	0.000	164500	0.000	203000	0.000		
054500	0.000	093000	0.04	131500	0.01	170000	0.000	204500	0.02		
060000	0.000	094500	0.09	133000	0.000	171500	0.000	210000	0.01		

DATE: APR. 24, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
050000	0.01	081500	0.05	113000	0.14	144500	0.08	180000	0.02	211500	0.000
051500	0.000	083000	0.06	114500	0.08	150000	0.01	181500	0.01	213000	0.000
053000	0.02	084500	0.03	120000	0.11	151500	0.000	183000	0.000	214500	0.000
054500	0.02	090000	0.04	121500	0.07	153000	0.000	184500	0.000	220000	0.000
060000	0.02	091500	0.05	123000	0.07	154500	0.000	190000	0.000	221500	0.000
061500	0.02	093000	0.04	124500	0.08	160000	0.000	191500	0.01	223000	0.000
063000	0.01	094500	0.04	130000	0.08	161500	0.000	193000	0.02	224500	0.000
064500	0.02	100000	0.05	131500	0.04	163000	0.000	194500	0.000	230000	0.000
070000	0.01	101500	0.04	133000	0.10	164500	0.01	200000	0.000	231500	0.01
071500	0.02	103000	0.09	134500	0.13	170000	0.03	201500	0.000		
073000	0.01	104500	0.06	140000	0.06	171500	0.02	203000	0.000		
074500	0.03	110000	0.09	141500	0.07	173000	0.02	204500	0.000		
080000	0.04	111500	0.16	143000	0.05	174500	0.02	210000	0.000		

DATE: AUG. 11, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
094500	0.009	120000	0.000	141500	0.009	163000	0.000	184500	0.05	210000	0.009
100000	0.009	121500	0.000	143000	0.000	164500	0.009	190000	0.04	211500	0.000
101500	0.009	123000	0.000	144500	0.000	170000	0.009	191500	0.03	213000	0.000
103000	0.04	124500	0.000	150000	0.000	171500	0.000	193000	0.009	214500	0.000
104500	0.02	130000	0.000	151500	0.000	173000	0.009	194500	0.02	220000	0.000
110000	0.02	131500	0.000	153000	0.009	174500	0.000	200000	0.03	221500	0.009
111500	0.02	133000	0.000	154500	0.009	180000	0.009	201500	0.009		
113000	0.009	134500	0.000	160000	0.009	181500	0.009	203000	0.009		
114500	0.000	140000	0.000	161500	0.000	183000	0.02	204500	0.02		

CONNECTICUT RIVER BASIN

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414053072454502 RAIN GAGE AT EAST STREET AT NEW BRITAIN, CT--Continued

DATE: AUG. 12,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
004500	0.009	031500	0.000	054500	0.000	081500	0.000	104500	0.10	131500	0.009
010000	0.009	033000	0.000	060000	0.000	083000	0.009	110000	0.07	133000	0.03
011500	0.009	034500	0.000	061500	0.02	084500	0.000	111500	0.07	134500	0.03
013000	0.02	040000	0.000	063000	0.05	090000	0.000	113000	0.02	140000	0.009
014500	0.000	041500	0.000	064500	0.02	091500	0.009	114500	0.05	141500	0.009
020000	0.009	043000	0.000	070000	0.000	093000	0.04	120000	0.03	143000	0.000
021500	0.000	044500	0.000	071500	0.009	094500	0.02	121500	0.03	144500	0.009
023000	0.009	050000	0.009	073000	0.000	100000	0.000	123000	0.04		
024500	0.009	051500	0.000	074500	0.000	101500	0.009	124500	0.05		
030000	0.000	053000	0.000	080000	0.000	103000	0.02	130000	0.03		

DATE: SEP. 21,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
201500	0.03	210000	0.05	214500	0.009	223000	0.05	231500	0.009	240000	0.11
203000	0.02	211500	0.05	220000	0.03	224500	0.009	233000	0.09		
204500	0.02	213000	0.02	221500	0.08	230000	0.009	234500	0.19		

DATE: SEP. 22,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.07	011500	0.03	021500	0.03	031500	0.009	041500	0.000		
003000	0.06	013000	0.03	023000	0.02	033000	0.009	043000	0.009		
004500	0.04	014500	0.02	024500	0.009	034500	0.000				
010000	0.08	020000	0.03	030000	0.009	040000	0.000				

DATE: SEP. 30,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
140000	0.009	154500	0.009	173000	0.009	191500	0.000	210000	0.000	224500	0.08
141500	0.009	160000	0.009	174500	0.000	193000	0.000	211500	0.000	230000	0.009
143000	0.009	161500	0.009	180000	0.000	194500	0.000	213000	0.04	231500	0.000
144500	0.000	163000	0.000	181500	0.000	200000	0.000	214500	0.04	233000	0.009
150000	0.009	164500	0.000	183000	0.000	201500	0.000	220000	0.02		
151500	0.009	170000	0.000	184500	0.000	203000	0.000	221500	0.009		
153000	0.000	171500	0.000	190000	0.000	204500	0.000	223000	0.13		

CONNECTICUT RIVER BASIN

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.--26.8 mi² (69.4 km²) rev.

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 34.02 ft (10.369 m) National Geodetic Vertical Datum of 1929 (revised). Prior to October 1, 1981, datum in error by +0.18 ft (0.055 m).

REMARKS.--Records good, except those for no gage-height record Dec. 8 to Jan. 8, which are fair. Some regulation at small dams upstream and by storage and diversion at a Hartford water supply reservoir on headwater stream. High flow regulated by Bloomfield, Cold Spring, Wintonbury, and Blue Hills Reservoirs, on tributaries of North Branch Park River. Chemical analyses available for water years 1968 (WSP 2091), 1969 (WSP 2143), 1970 (WSP 2151), and 1954 in office at Hartford, Conn.

AVERAGE DISCHARGE.--47 years, 38.7 ft³/s (1.096 m³/s), 19.61 in/yr (498 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, 1,600 ft³/s (45.3 m³/s) Apr. 11, gage height, 8.40 ft (2.560 m); minimum, 1.7 ft³/s (0.048 m³/s) Aug. 28, gage height, 1.29 ft (0.393 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.9	15	11	46	61	42	46	55	8.5	4.4	3.9
2	6.3	8.7	14	10	39	312	36	40	38	22	4.1	3.3
3	5.8	8.8	12	10	506	194	208	39	27	18	3.5	2.5
4	5.2	10	10	10	185	92	196	48	191	9.7	18	2.3
5	5.6	36	10	10	71	74	78	40	127	17	8.5	2.2
6	5.1	21	9.9	40	71	53	51	31	41	24	6.6	2.2
7	5.1	14	10	34	25	75	42	26	30	13	5.4	2.9
8	5.3	11	8.9	22	24	157	55	26	24	9.3	4.9	2.9
9	56	10	8.9	15	23	442	92	40	19	8.5	4.4	2.3
10	26	10	7.6	16	22	138	409	28	17	7.3	3.3	2.0
11	15	9.4	7.6	379	21	103	821	29	16	6.3	3.5	2.0
12	19	9.7	7.6	92	20	280	213	22	14	6.0	21	2.2
13	15	135	7.6	44	20	103	89	20	14	5.7	9.3	3.3
14	9.8	51	7.2	32	19	63	68	19	13	4.6	4.6	2.9
15	9.3	27	7.6	14	19	48	56	23	13	4.1	3.5	2.6
16	8.0	18	39	13	18	40	172	51	13	5.1	2.9	2.5
17	7.5	14	42	12	27	34	566	69	12	4.6	2.9	2.8
18	7.6	13	21	11	51	31	157	28	9.3	4.6	9.3	2.9
19	7.4	11	14	10	53	580	531	21	9.7	4.4	6.6	2.8
20	9.7	10	12	10	41	358	570	22	8.9	4.6	4.1	2.8
21	9.3	10	12	10	38	265	181	22	7.7	4.9	2.8	3.9
22	8.3	10	12	11	49	256	98	19	8.5	4.1	2.5	36
23	6.8	10	14	22	60	98	75	100	6.6	3.7	2.5	5.7
24	6.4	11	17	260	68	68	385	42	7.3	5.4	2.5	3.7
25	9.9	10	21	140	58	53	372	25	6.6	7.0	2.3	3.3
26	50	9.8	23	66	44	44	134	19	5.4	5.4	2.0	2.8
27	17	9.7	17	35	36	40	89	202	7.0	5.1	1.9	2.6
28	12	9.2	16	23	46	386	72	81	40	4.1	5.1	2.5
29	11	44	19	19	---	127	60	38	26	3.9	4.1	2.5
30	9.8	29	15	18	---	68	52	224	13	4.4	3.9	2.6
31	9.0	---	14	40	---	52	---	119	---	4.4	3.7	---
TOTAL	385.6	589.2	451.9	1439	1700	4695	5970	1559	820.0	239.7	164.1	118.9
MEAN	12.4	19.6	14.6	46.4	60.7	151	199	50.3	27.3	7.73	5.29	3.96
MAX	56	135	42	379	506	580	821	224	191	24	21	36
MIN	5.1	8.7	7.2	10	18	31	36	19	5.4	3.7	1.9	2.0
CFSM	.46	.73	.55	1.73	2.27	5.63	7.43	1.88	1.02	.29	.20	.15
IN.	.54	.82	.63	2.00	2.36	6.52	8.29	2.16	1.14	.33	.23	.17
CAL YR 1982	TOTAL	17648.9	MEAN	48.4	MAX	2270	MIN	4.5	CFSM	1.81	IN	24.50
WTR YR 1983	TOTAL	18132.4	MEAN	49.7	MAX	821	MIN	1.9	CFSM	1.85	IN	25.17

CONNECTICUT RIVER BASIN

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01192480 HOP BROOK AT MANCHESTER, CT

LOCATION.--Lat 41°46'22", long. 72°33'26", Hartford County, Hydrologic Unit 01080205, on right bank, 100 ft (30 m) upstream from bridge on Olcott Street, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--11.7 mi² (30.3 km²) rev.

PERIOD OF RECORD.--October 1977 to current year (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 84.53 ft (25.765 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by storage in and diversion, for public water supply for city of Manchester, from Porter, Howard, and Globe-Hollow Reservoirs.

AVERAGE DISCHARGE (unadjusted).--6 years, 14.8 ft³/s (0.419 m³/s).

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 daily, 0.37 ft³/s (0.010 m³/s) Feb. 1, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 520 ft³/s (14.7 m³/s) Apr. 19, gage height 4.68 ft (1.426 m); minimum daily, 1.2 ft³/s (0.033 m³/s) Sept. 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.7	4.5	3.9	8.4	18	29	40	29	6.5	8.1	2.2
2	3.6	3.7	4.2	3.8	7.5	61	25	37	24	13	4.5	2.0
3	3.5	3.9	4.2	3.7	96	51	43	35	21	8.1	3.4	2.0
4	3.5	4.2	4.0	3.7	57	37	48	47	62	6.5	19	2.0
5	3.5	23	3.6	3.7	37	33	32	35	45	14	5.2	2.2
6	3.5	6.1	5.5	18	27	28	26	29	28	9.7	4.9	2.0
7	3.5	4.7	4.2	6.8	24	37	24	26	23	6.5	4.9	1.8
8	4.0	4.2	3.9	5.0	23	45	34	29	20	5.6	4.5	2.0
9	36	3.6	3.7	4.5	21	81	50	33	18	5.2	3.8	2.0
10	5.2	3.6	3.6	5.5	20	52	110	25	15	4.9	3.4	2.0
11	4.0	3.7	3.5	73	20	47	155	23	14	4.5	6.1	2.0
12	3.9	3.9	3.5	17	19	92	83	22	13	4.5	32	4.9
13	4.3	51	3.4	11	19	57	65	21	13	4.2	9.7	7.0
14	4.5	9.7	3.4	9.7	18	41	58	20	12	3.8	5.6	2.0
15	4.5	7.5	3.9	7.5	17	34	52	23	11	3.4	4.9	1.8
16	3.7	4.8	18	7.9	17	30	62	37	11	3.8	4.2	1.8
17	3.7	4.7	7.2	7.2	21	27	118	39	11	3.0	3.8	2.0
18	3.7	4.5	4.7	6.5	33	25	67	23	10	3.4	16	2.0
19	3.7	4.3	4.2	6.1	25	138	226	19	10	3.4	5.6	1.8
20	3.7	4.2	4.3	5.8	19	92	125	18	9.7	3.4	4.5	2.0
21	4.5	4.0	4.2	5.5	17	74	70	19	8.7	3.8	3.4	3.8
22	3.6	4.0	4.0	6.1	17	66	61	18	8.1	4.2	3.4	25
23	3.9	4.0	4.0	22	18	51	57	35	7.5	4.2	3.0	1.8
24	4.0	3.9	5.5	26	19	40	141	20	7.0	8.7	3.0	1.4
25	15	4.0	5.0	14	18	35	88	16	6.1	5.2	2.7	1.3
26	19	3.7	5.0	10	17	31	63	15	6.1	4.2	2.7	1.2
27	5.2	4.2	4.5	7.9	16	30	57	68	8.7	3.4	2.7	1.2
28	4.3	4.0	4.3	6.5	15	101	52	43	30	3.4	4.2	1.2
29	4.0	12	4.2	5.8	---	57	47	28	12	3.0	10	1.2
30	4.0	5.2	4.0	6.1	---	40	43	67	8.1	3.4	4.5	1.4
31	4.0	---	3.9	11	---	33	---	42	---	3.4	3.8	---
TOTAL	181.1	208.0	146.1	331.2	665.9	1584	2111	952	502.0	164.3	197.5	87.0
MEAN	5.84	6.93	4.71	10.7	23.8	51.1	70.4	30.7	16.7	5.30	6.37	2.90
MAX	36	51	18	73	96	138	226	68	62	14	32	25
MIN	3.5	3.6	3.4	3.7	7.5	18	24	15	6.1	3.0	2.7	1.2
CAL YR 1982	TOTAL	6006.6	MEAN	16.5	MAX	355	MIN	3.3				
WTR YR 1983	TOTAL	7130.1	MEAN	19.5	MAX	226	MIN	1.2				

CONNECTICUT RIVER BASIN

01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT

LOCATION.--Lat 41°46'59", long 72°35'16", Hartford County, Hydrologic Unit 01080205, on left bank at end of Preston Street, 0.2 mile upstream from bridge on Walnut Street, 1.5 miles downstream from Hop Brook, and 2.8 miles east of East Hartford.

DRAINAGE AREA.--73.4 mi² (190.1 km²).

PERIOD OF RECORD.--September 1919 to September 1921, July 1928 to September 1971. Annual maximum, water years 1972-76. October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 53.60 ft (16.337 m) National Geodetic Vertical Datum of 1929 (revised). Prior to October 1, 1981, datum in error by +0.90 ft (0.274 m), original levels by Department of Engineering, city of Hartford.

REMARKS.--Records good. Flow regulated by Shenipsit Lake, small reservoirs, and industrial plants.

AVERAGE DISCHARGE (adjusted for storage).--45 years (1919-21, 1928-71) 112 ft³/s (3.172 m³/s), 20.42 in/yr (519 mm/yr); (unadjusted).--52 years (1919-21, 1928-71, 1977-83) 114 ft³/s (3.228 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,160 ft³/s (146 m³/s) Sept. 21, 1938, gage height, 13.78 ft (4.200m 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 (0.034 m³/s) Sept. 2, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft³/s (56.4 m³/s) Apr. 20, gage height, 9.66 ft (2.944 m); minimum daily, 34 ft³/s (0.96 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	48	61	55	141	142	218	312	293	84	49	43
2	38	49	57	55	130	240	193	300	244	93	53	41
3	36	47	54	55	288	240	225	292	198	80	47	40
4	40	49	53	55	279	219	240	328	264	72	83	38
5	41	118	50	54	246	208	163	307	317	88	55	37
6	41	91	56	109	221	187	161	238	208	82	53	37
7	40	59	49	98	209	193	161	216	183	72	50	38
8	40	54	58	73	194	215	179	234	160	67	48	35
9	110	53	50	65	190	333	202	271	135	72	45	36
10	52	49	48	63	185	303	356	243	132	60	43	35
11	47	48	48	279	180	326	897	232	132	58	45	34
12	95	49	48	209	170	500	453	227	124	57	94	37
13	125	212	46	172	165	364	307	191	121	55	81	40
14	64	165	46	133	160	298	250	172	115	53	73	39
15	50	114	48	109	145	280	232	168	111	53	70	36
16	46	81	47	90	140	263	271	189	106	53	67	36
17	44	68	46	85	155	247	601	193	104	49	64	37
18	43	63	45	80	180	235	397	170	99	50	75	37
19	45	59	44	75	160	475	730	162	95	49	64	37
20	45	55	43	72	145	512	1450	158	91	49	57	38
21	46	53	43	70	140	385	629	152	86	49	49	37
22	44	54	42	91	140	408	625	148	81	50	44	102
23	41	54	56	118	140	338	481	181	77	49	43	62
24	40	53	64	162	152	312	601	156	74	58	40	51
25	59	50	65	189	148	282	825	145	70	53	40	43
26	148	48	68	180	141	257	545	135	68	51	40	40
27	80	49	64	160	134	234	443	244	74	48	40	38
28	59	47	64	143	137	380	387	205	131	46	45	36
29	52	88	63	128	---	340	351	185	102	45	50	35
30	49	75	59	122	---	280	329	391	89	45	47	36
31	48	---	57	141	---	247	---	389	---	42	47	---
TOTAL	1745	2102	1642	3490	4815	9243	12902	6934	4084	1832	1701	1231
MEAN	56.3	70.1	53.0	113	172	298	430	224	136	59.1	54.9	41.0
MAX	148	212	68	279	288	512	1450	391	317	93	94	102
MIN	36	47	42	54	130	142	161	135	68	42	40	34

CAL YR 1982 TOTAL 54107 MEAN 148 MAX 2160 MIN 36
WTR YR 1983 TOTAL 51721 MEAN 142 MAX 1450 MIN 34

CONNECTICUT RIVER BASIN

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01192516 HOCKANUM RIVER AT EAST HARTFORD, CT

LOCATION.--Lat 41°45'22", long 72°38'36", Hartford County, Hydrologic Unit 01080205, 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 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)
OCT 18...	1545	390	7.5	13.5	13.0	6.0	8.0	75	260000	120000
NOV 16...	1445	285	7.3	9.0	7.5	5.0	10.4	85	50000	18000
DEC 16...	1345	580	7.4	14.5	6.5	15	11.4	93	70000	60000
JAN 14...	0945	250	7.2	-5.0	3.0	5.9	12.0	87	38000	38000
MAR 03...	1450	235	7.3	9.5	6.5	2.0	12.1	99	29000	18000
APR 14...	1515	175	7.2	11.0	10.5	2.7	10.5	93	12000	6200
MAY 19...	1400	260	7.1	20.5	15.0	1.4	7.5	73	80	160
JUN 13...	1330	290	7.0	30.5	24.0	2.5	8.5	100	150	160
JUL 15...	1245	370	7.0	31.5	26.0	1.2	6.1	75	40	40
AUG 09...	1115	337	7.1	26.5	26.0	3.5	5.4	66	130	130
SEP 02...	0950	375	7.3	25.0	22.5	7.0	5.6	64	K1	400

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
OCT 18...	--	--	--	--	--	40	36	--	228	76
NOV 16...	66	34	20	3.9	32	26	29	9.7	162	108
DEC 16...	--	--	--	--	--	40	110	--	318	150
JAN 14...	55	33	16	3.5	--	24	31	8.8	151	84
MAR 03...	--	--	--	--	--	24	32	--	121	56
APR 14...	--	--	--	--	--	15	21	--	106	36
MAY 19...	65	34	20	3.6	31	22	26	9.3	152	100
JUN 13...	--	--	--	--	--	27	35	--	185	62
JUL 15...	89	48	28	4.7	41	41	42	12	236	153
AUG 09...	--	--	--	--	--	31	38	--	197	69
SEP 02...	--	--	--	--	--	36	41	--	240	77

CONNECTICUT RIVER BASIN

01192516 HOCKANUM RIVER AT EAST HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
OCT 18...	0.31	249	2.0	0.13	2.1	7.20	5.8	13.0	15	2.00
NOV 16...	0.22	183	1.4	0.07	1.5	3.20	0.7	3.90	5.4	0.81
DEC 16...	0.43	379	1.7	0.07	1.8	5.70	0.2	5.90	7.7	1.30
JAN 14...	0.21	177	1.4	0.02	1.4	2.90	0.00	2.50	3.9	0.74
MAR 03...	0.16	163	1.2	0.02	1.2	1.60	0.4	2.00	3.2	0.47
APR 14...	0.14	101	1.1	0.03	1.1	1.10	0.8	1.90	3.0	0.31
MAY 19...	0.21	163	1.6	0.10	1.7	2.10	0.7	2.80	4.5	0.54
JUN 13...	0.25	232	1.7	0.15	1.9	1.80	1.4	3.20	5.1	0.53
JUL 15...	0.32	255	2.6	0.38	3.0	4.30	1.0	5.30	8.3	1.60
AUG 09...	0.27	219	2.3	0.31	2.6	3.70	6.3	10.0	13	0.66
SEP 02...	0.33	255	2.2	0.33	2.5	3.80	0.00	3.50	6.0	1.60

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	1.50	1	<1	5	--	4	--	10	10	11
NOV 16...	0.69	<1	<1	6	240	3	130	16	28	7.7
DEC 16...	1.10	1	<1	2	--	8	--	14	60	8.5
JAN 14...	0.74	2	1	6	140	8	93	7	22	8.2
MAR 03...	0.35	1	<1	3	--	3	--	5	20	5.3
APR 14...	0.31	2	<1	9	--	3	--	4	20	5.6
MAY 19...	0.38	1	<1	8	190	5	200	7	8	4.7
JUN 13...	--	1	2	3	--	5	--	1	10	5.4
JUL 15...	1.50	<1	<1	9	120	12	220	4	23	5.8
AUG 09...	0.49	1	<1	5	--	2	--	4	10	8.1
SEP 02...	1.20	2	<1	10	--	10	--	6	30	9.1

CONNECTICUT RIVER BASIN

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01192692 WILLOW BROOK AT NEW BRITAIN, CT

LOCATION.--Lat 41°39'09", long 72°47'06", Hartford County, Hydrologic Unit 01080205, 300 ft (91 m) south of Buell Street in Hungerford Park, on south edge of New Britain.

DRAINAGE AREA.--6.65 mi² (17.2 km²).

PERIOD OF RECORD.--September 1971 to July 1972, May 2, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 103.50 ft (31.547 m) National Geodetic Vertical Datum of 1929. Prior to July 1972, water-stage recorder at same site and at datum 1.5 ft (0.457 m) higher.

REMARKS.--Records excellent. Only records of major storm events are published for this station March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) June 6, 1982, gage height, 5.90 ft (1.798 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s (42.5 m³/s) by contracted-opening measurement 1,000 ft (305 m) upstream, Aug. 19, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 284 ft³/s (8.04 m³/s) April 24, gage height, 4.06 ft (1.237 m).

DATE: APR. 16, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	13	043000	13	084500	14	130000	18	171500	93	213000	179
003000	13	044500	13	090000	16	131500	23	173000	96	214500	176
004500	13	050000	13	091500	17	133000	28	174500	100	220000	167
010000	13	051500	13	093000	18	134500	35	180000	103	221500	179
011500	3.0	053000	13	094500	18	140000	39	181500	100	223000	182
013000	3.0	054500	13	100000	17	141500	42	183000	100	224500	188
014500	3.0	060000	13	101500	17	143000	45	184500	103	230000	195
020000	3.0	061500	13	103000	16	144500	50	190000	130	231500	195
021500	3.0	063000	13	104500	16	150000	55	191500	135	233000	201
023000	3.0	064500	13	110000	16	151500	60	193000	143	234500	198
024500	13	070000	13	111500	16	153000	60	194500	159	240000	204
030000	13	071500	13	113000	15	154500	66	200000	156		
031500	13	073000	13	114500	15	160000	72	201500	153		
033000	13	074500	13	120000	14	161500	78	203000	153		
034500	13	080000	13	121500	14	163000	76	204500	148		
040000	13	081500	13	123000	15	164500	81	210000	148		
041500	13	083000	13	124500	16	170000	87	211500	156		

DATE: APR. 17, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	195	043000	138	084500	103	130000	81	171500	66	213000	61
003000	204	044500	122	090000	100	131500	78	173000	66	214500	64
004500	204	050000	122	091500	105	133000	81	174500	66	220000	61
010000	198	051500	130	093000	100	134500	78	180000	66	221500	61
011500	179	053000	127	094500	96	140000	76	181500	66	223000	63
013000	165	054500	125	100000	96	141500	72	183000	66	224500	60
014500	179	060000	112	101500	93	143000	74	184500	69	230000	64
020000	173	061500	112	103000	87	144500	72	190000	64	231500	61
021500	150	063000	110	104500	93	150000	74	191500	64	233000	60
023000	147	064500	112	110000	85	151500	74	193000	66	234500	58
024500	164	070000	112	111500	91	153000	74	194500	67	240000	57
030000	159	071500	110	113000	87	154500	69	200000	64		
031500	153	073000	112	114500	89	160000	69	201500	66		
033000	151	074500	105	120000	85	161500	69	203000	64		
034500	140	080000	110	121500	80	163000	71	204500	63		
040000	138	081500	108	123000	80	164500	69	210000	60		
041500	135	083000	105	124500	78	170000	71	211500	61		

CONNECTICUT RIVER BASIN

01192692 WILLOW BROOK AT NEW BRITAIN, CT--Continued

DATE: APR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	28	043000	44	084500	44	130000	115	171500	117	213000	105
003000	28	044500	47	090000	52	131500	115	173000	117	214500	100
004500	28	050000	47	091500	69	133000	122	174500	115	220000	108
010000	29	051500	47	093000	83	134500	112	180000	120	221500	103
011500	32	053000	50	094500	83	140000	120	181500	120	223000	103
013000	28	054500	48	100000	112	141500	122	183000	112	224500	105
014500	28	060000	44	101500	125	143000	110	184500	112	230000	98
020000	28	061500	42	103000	122	144500	117	190000	110	231500	100
021500	32	063000	42	104500	153	150000	115	191500	115	233000	100
023000	28	064500	42	110000	182	151500	115	193000	108	234500	96
024500	32	070000	41	111500	195	153000	122	194500	105	240000	96
030000	32	071500	39	113000	170	154500	127	200000	112		
031500	32	073000	41	114500	156	160000	135	201500	103		
033000	34	074500	40	120000	127	161500	122	203000	100		
034500	38	080000	42	121500	130	163000	112	204500	103		
040000	42	081500	41	123000	138	164500	115	210000	105		
041500	45	083000	41	124500	125	170000	110	211500	105		

DATE: APR. 20, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	96	043000	81	084500	72	130000	64	171500	54	213000	49
003000	96	044500	81	090000	71	131500	61	173000	53	214500	49
004500	105	050000	78	091500	71	133000	63	174500	55	220000	46
010000	91	051500	76	093000	71	134500	64	180000	57	221500	48
011500	96	053000	78	094500	71	140000	61	181500	58	223000	47
013000	83	054500	78	100000	71	141500	63	183000	53	224500	48
014500	83	060000	76	101500	71	143000	64	184500	53	230000	47
020000	91	061500	78	103000	72	144500	60	190000	51	231500	48
021500	89	063000	72	104500	67	150000	63	191500	50	233000	47
023000	89	064500	76	110000	64	151500	60	193000	49	234500	46
024500	89	070000	76	111500	64	153000	58	194500	49	240000	46
030000	91	071500	74	113000	69	154500	60	200000	49		
031500	81	073000	72	114500	66	160000	57	201500	52		
033000	85	074500	74	120000	69	161500	57	203000	48		
034500	87	080000	69	121500	64	163000	55	204500	49		
040000	83	081500	72	123000	64	164500	57	210000	48		
041500	91	083000	74	124500	60	170000	55	211500	48		

DATE: APR. 24, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	20	043000	19	084500	48	130000	218	171500	221	213000	135
003000	20	044500	19	090000	48	131500	235	173000	225	214500	132
004500	20	050000	19	091500	52	133000	256	174500	211	220000	130
010000	20	051500	19	093000	54	134500	279	180000	215	221500	122
011500	19	053000	19	094500	58	140000	253	181500	218	223000	115
013000	19	054500	19	100000	69	141500	260	183000	198	224500	100
014500	19	060000	22	101500	78	143000	253	184500	191	230000	120
020000	19	061500	22	103000	83	144500	266	190000	198	231500	120
021500	19	063000	24	104500	93	150000	266	191500	179	233000	108
023000	19	064500	25	110000	100	151500	260	193000	182	234500	110
024500	19	070000	25	111500	140	153000	249	194500	173	240000	108
030000	19	071500	26	113000	211	154500	239	200000	179		
031500	19	073000	29	114500	246	160000	235	201500	164		
033000	19	074500	30	120000	228	161500	218	203000	162		
034500	19	080000	33	121500	228	163000	204	204500	151		
040000	19	081500	38	123000	201	164500	195	210000	145		
041500	19	083000	42	124500	201	170000	198	211500	143		

CONNECTICUT RIVER BASIN

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01192692 WILLOW BROOK AT NEW BRITAIN, CT--Continued

DATE: APR. 25, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	108	043000	85	084500	78	130000	66	171500	57	213000	54
003000	108	044500	85	090000	78	131500	63	173000	53	214500	52
004500	100	050000	81	091500	78	133000	61	174500	60	220000	53
010000	96	051500	87	093000	76	134500	64	180000	55	221500	52
011500	98	053000	85	094500	71	140000	60	181500	58	223000	51
013000	96	054500	87	100000	74	141500	61	183000	55	224500	52
014500	96	060000	85	101500	74	143000	60	184500	54	230000	51
020000	100	061500	83	103000	76	144500	63	190000	53	231500	49
021500	103	063000	83	104500	69	150000	61	191500	57	233000	52
023000	93	064500	78	110000	67	151500	60	193000	57	234500	49
024500	93	070000	81	111500	69	153000	61	194500	54	240000	50
030000	96	071500	80	113000	71	154500	57	200000	54		
031500	91	073000	80	114500	67	160000	58	201500	53		
033000	83	074500	80	120000	64	161500	58	203000	54		
034500	89	080000	78	121500	64	163000	60	204500	57		
040000	87	081500	78	123000	64	164500	60	210000	55		
041500	87	083000	51	124500	66	170000	55	211500	53		

CONNECTICUT RIVER BASIN

413901072464401 RAIN GAGE AT NEW BRITAIN HIGH SCHOOL AT NEW BRITAIN, CT

LOCATION.--Lat 41°39'01", long 72°46'44", Hartford County, Hydrologic Unit 01080205, on roof of New Britain High School at west end of building, in Willow Brook drainage basin, on Mill Street, 0.4 mi (0.6 km) southeast of gage on Willow Brook below Buell Street, at New Britain.

PERIOD OF RECORD.--July 21, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.19 in (4.83 mm) July 23, 1980; maximum for 15 minutes, 0.44 in (11.2 mm) Sept. 8, 1981; maximum for 30 minutes, 0.73 in (18.5 mm) July 23, 1980; maximum hourly, 0.98 in (24.9 mm) July 23, 1981; maximum daily, 7.73 in (196 mm) June 5, 1982, at Shuttle Meadow Reservoir, 1.8 mi (2.9 km) upstream and 2.0 mi (3.2 km) southwest of New Britain High School.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 7.75 in (197 mm) Aug. 19, 1955, at Shuttle Meadow Reservoir, 1.8 mi (2.9 km) upstream and 2.0 mi (3.2 km) southwest of New Britain High School.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.13 in (3.30 mm) Sept. 21; maximum for 15 minutes, 0.20 in (5.08 mm) Sept. 21; maximum for 30 minutes, 0.30 in (7.62 mm) Apr. 24; maximum hourly, 0.54 in (13.7 mm) Apr. 24; maximum daily, 3.26 in (82.8 mm) Apr. 10.

DATE: APR. 10, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
063000	0.01	093000	0.000	123000	0.06	153000	0.12	183000	0.08	213000	0.01
064500	0.000	094500	0.01	124500	0.11	154500	0.14	184500	0.11	214500	0.01
070000	0.000	100000	0.02	130000	0.11	160000	0.14	190000	0.02	220000	0.01
071500	0.000	101500	0.02	131500	0.08	161500	0.12	191500	0.07	221500	0.01
073000	0.000	103000	0.01	133000	0.12	163000	0.08	193000	0.11	223000	0.01
074500	0.000	104500	0.000	134500	0.08	164500	0.09	194500	0.06	224500	0.01
080000	0.000	110000	0.01	140000	0.06	170000	0.08	200000	0.05		
081500	0.000	111500	0.000	141500	0.11	171500	0.09	201500	0.09		
083000	0.000	113000	0.000	143000	0.06	173000	0.10	203000	0.07		
084500	0.000	114500	0.01	144500	0.08	174500	0.10	204500	0.04		
090000	0.01	120000	0.02	150000	0.09	180000	0.09	210000	0.01		
091500	0.01	121500	0.03	151500	0.15	181500	0.06	211500	0.01		

DATE: APR. 16, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
041500	0.01	074500	0.000	111500	0.000	144500	0.05	181500	0.07	214500	0.01
043000	0.000	080000	0.01	113000	0.000	150000	0.04	183000	0.06	220000	0.02
044500	0.000	081500	0.000	114500	0.000	151500	0.07	184500	0.09	221500	0.05
050000	0.000	083000	0.02	120000	0.01	153000	0.07	190000	0.08	223000	0.07
051500	0.000	084500	0.03	121500	0.01	154500	0.07	191500	0.06	224500	0.05
053000	0.000	090000	0.01	123000	0.01	160000	0.06	193000	0.09	230000	0.04
054500	0.000	091500	0.02	124500	0.02	161500	0.05	194500	0.07	231500	0.03
060000	0.000	093000	0.000	130000	0.06	163000	0.08	200000	0.05	233000	0.04
061500	0.01	094500	0.000	131500	0.04	164500	0.07	201500	0.05	234500	0.03
063000	0.000	100000	0.000	133000	0.03	170000	0.07	203000	0.03	240000	0.06
064500	0.000	101500	0.01	134500	0.04	171500	0.07	204500	0.04		
070000	0.01	103000	0.000	140000	0.03	173000	0.06	210000	0.06		
071500	0.000	104500	0.000	141500	0.06	174500	0.06	211500	0.07		
073000	0.000	110000	0.000	143000	0.05	180000	0.05	213000	0.04		

CONNECTICUT RIVER BASIN

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413901072464401 RAIN GAGE AT NEW BRITAIN HIGH SCHOOL AT NEW BRITAIN, CT--Continued

DATE: APR. 17, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.04	004500	0.02	011500	0.000	014500	0.000	021500	0.000	024500	0.01
003000	0.03	010000	0.01	013000	0.01	020000	0.000	023000	0.000		

DATE: APR. 19, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
021500	0.01	060000	0.000	094500	0.10	133000	0.000	171500	0.000	210000	0.000
023000	0.000	061500	0.000	100000	0.13	134500	0.000	173000	0.000	211500	0.01
024500	0.01	063000	0.000	101500	0.14	140000	0.01	174500	0.01	213000	0.000
030000	0.01	064500	0.000	103000	0.13	141500	0.01	180000	0.01	214500	0.000
031500	0.02	070000	0.000	104500	0.13	143000	0.01	181500	0.01	220000	0.01
033000	0.03	071500	0.000	110000	0.05	144500	0.000	183000	0.000	221500	0.000
034500	0.05	073000	0.000	111500	0.01	150000	0.02	184500	0.000	223000	0.000
040000	0.01	074500	0.000	113000	0.01	151500	0.04	190000	0.000	224500	0.000
041500	0.03	080000	0.000	114500	0.000	153000	0.02	191500	0.000	230000	0.000
043000	0.03	081500	0.000	120000	0.02	154500	0.03	193000	0.000	231500	0.01
044500	0.03	083000	0.000	121500	0.02	160000	0.01	194500	0.000		
050000	0.04	084500	0.000	123000	0.000	161500	0.000	200000	0.000		
051500	0.02	090000	0.09	124500	0.000	163000	0.000	201500	0.000		
053000	0.000	091500	0.10	130000	0.01	164500	0.000	203000	0.01		
054500	0.000	093000	0.11	131500	0.000	170000	0.000	204500	0.000		

DATE: APR. 24, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
051500	0.01	083000	0.04	114500	0.10	150000	0.03	181500	0.01	213000	0.000
053000	0.01	084500	0.04	120000	0.14	151500	0.01	183000	0.01	214500	0.000
054500	0.02	090000	0.04	121500	0.06	153000	0.000	184500	0.000	220000	0.000
060000	0.03	091500	0.04	123000	0.09	154500	0.000	190000	0.000	221500	0.000
061500	0.01	093000	0.05	124500	0.14	160000	0.000	191500	0.01	223000	0.000
063000	0.02	094500	0.04	130000	0.09	161500	0.000	193000	0.03	224500	0.000
064500	0.01	100000	0.06	131500	0.06	163000	0.000	194500	0.000	230000	0.000
070000	0.02	101500	0.06	133000	0.13	164500	0.03	200000	0.000	231500	0.01
071500	0.02	103000	0.07	134500	0.14	170000	0.03	201500	0.000		
073000	0.02	104500	0.05	140000	0.07	171500	0.01	203000	0.000		
074500	0.03	110000	0.10	141500	0.06	173000	0.03	204500	0.000		
080000	0.05	111500	0.16	143000	0.07	174500	0.02	210000	0.000		
081500	0.04	113000	0.14	144500	0.06	180000	0.02	211500	0.000		

413901072464401 RAIN GAGE AT NEW BRITAIN HIGH SCHOOL AT NEW BRITAIN, CT--Continued

DATE: APR. 25, 1983

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

DATE: SEP. 21, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
194500	0.07	204500	0.04	214500	0.03	224500	0.009	234500	0.06		
200000	0.03	210000	0.04	220000	0.07	230000	0.009	240000	0.06		
201500	0.02	211500	0.03	221500	0.07	231500	0.04				
203000	0.02	213000	0.02	223000	0.02	233000	0.18				

CONNECTICUT RIVER BASIN

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01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT

LOCATION.--Lat 41°31'12", long 72°42'23", Middlesex County, Hydrologic Unit 01080205, on right bank just upstream from Cider Mill Road, 0.5 mi (0.8 km) northeast of Middlefield, and 0.75 mi (1.2 km) upstream from Wadsworth Falls.

DRAINAGE AREA.--29.8 mi² (77.2 km²) rev.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to December 1980, published as "at Rockfall", December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 134.17 ft (40.895 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 2, 1980, water-stage recorder at site 2.0 mi (3.2 km) downstream at datum 73.01 ft (22.253 m) lower.

REMARKS.--Records good. Infrequent regulation from Beseck Lake.

AVERAGE DISCHARGE (1961-80: adjusted to present site).--22 years, 55.2 ft³/s (1.563 m³/s), 25.14 in/yr (639 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,110 ft³/s (59.8 m³/s) June 6, 1982, gage height, 12.23 ft (3.728 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 2, 1964, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) Apr. 11, gage height, 10.09 ft (3.075 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 9, gage height, 4.36 ft (1.329 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	32	38	21	111	89	110	108	220	42	6.3	3.8
2	7.8	30	32	19	119	201	94	94	186	28	6.3	2.9
3	4.3	30	26	18	371	241	125	84	147	22	4.4	2.8
4	3.7	29	22	17	486	201	232	84	178	19	3.6	2.8
5	2.6	40	20	24	308	168	194	89	202	16	3.6	2.6
6	2.8	49	19	35	216	140	150	82	175	19	3.3	2.4
7	2.6	53	16	45	189	133	120	68	143	17	3.3	2.0
8	2.6	45	15	49	129	159	113	56	116	15	2.6	2.0
9	8.5	34	14	38	116	297	163	55	93	13	2.4	1.6
10	12	30	12	30	105	299	274	53	74	12	2.3	1.4
11	12	27	12	133	75	255	978	49	61	9.6	2.6	1.5
12	12	20	11	193	58	292	570	43	51	8.5	19	1.5
13	12	52	10	165	58	272	328	41	42	7.1	35	2.0
14	19	76	9.1	110	58	210	227	39	35	6.7	33	5.9
15	31	72	8.0	63	60	160	177	37	30	5.9	22	5.1
16	32	55	29	43	60	127	186	41	32	5.5	13	4.8
17	32	37	79	33	93	106	575	54	39	5.1	8.0	5.1
18	30	26	83	31	105	97	438	54	39	4.1	6.7	5.1
19	29	20	67	30	107	335	383	46	36	3.6	7.1	4.4
20	29	18	47	30	105	431	446	42	32	3.6	6.3	4.4
21	29	16	41	30	93	344	326	43	28	3.6	4.4	4.8
22	28	15	28	30	100	313	238	46	24	3.8	3.3	15
23	28	13	24	37	103	238	186	56	20	3.6	2.8	9.1
24	28	15	24	114	113	181	294	58	18	8.0	2.4	3.3
25	32	12	31	189	119	143	504	69	16	9.6	2.2	3.0
26	46	12	38	189	116	117	362	65	14	10	2.2	2.8
27	49	12	36	142	100	102	256	223	15	8.0	2.0	2.6
28	48	10	32	100	88	202	194	324	49	6.7	2.8	2.5
29	43	22	28	80	---	227	156	258	67	5.1	3.8	2.7
30	38	34	24	63	---	177	129	247	59	7.6	3.6	4.1
31	34	---	22	73	---	137	---	242	---	9.6	3.8	---
TOTAL	693.9	936	897.1	2174	3761	6394	8528	2850	2241	338.3	224.1	114.0
MEAN	22.4	31.2	28.9	70.1	134	206	284	91.9	74.7	10.9	7.23	3.80
MAX	49	76	83	193	486	431	978	324	220	42	35	15
MIN	2.6	10	8.0	17	58	89	94	37	14	3.6	2.0	1.4
CFSM	+36	+86	.97	2.35	4.50	6.91	9.53	3.08	2.51	.37	.24	.13
IN.	+42	+96	1.12	2.71	4.69	7.98	10.65	3.66	2.80	.42	.28	.14

CAL YR 1982 TOTAL 25886.4 MEAN 70.9 MAX 1670 MIN 2.1 +CFSM 2.33 +IN 31.94
WTR YR 1983 TOTAL 29151.4 MEAN 79.9 MAX 978 MIN 1.4 +CFSM 2.63 +IN 35.73

+Adjusted for release from Beseck Lake.

CONNECTICUT RIVER BASIN

01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1981 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1981 to current year.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE: March 1981 to July 1981 to September 1981.

REMARKS.--Records good to fair during period of low and normal flows, fair to poor during period of high flows. Data estimated during periods of missing records.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 162 mg/L June 5, 1982; minimum daily mean, 1 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 501 tons (454 Mg) June 6, 1982; minimum daily, 0 ton (0 Mg) on numerous days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 102 mg/L April 10; minimum daily mean, 1 mg/L on numerous days during the year.

SEDIMENT LOADS: Maximum daily, 115 tons (104 Mg) April 11; minimum daily, 0 ton (0 Mg) July 20, Aug. 22-25, 27, 28.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	MEAN SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	MEAN SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	MEAN SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	6.0	1	.02	32	3	.26	38	2	.21
2	7.8	1	.02	30	3	.24	32	3	.26
3	4.3	2	.02	30	3	.24	26	3	.21
4	3.7	3	.03	29	3	.23	22	5	.30
5	2.6	1	.00	40	5	.54	20	5	.27
6	2.8	2	.02	49	11	1.5	19	4	.21
7	2.6	2	.01	53	6	.86	16	3	.13
8	2.6	2	.01	45	5	.61	15	2	.08
9	8.5	2	.05	34	5	.46	14	2	.08
10	12	2	.06	30	5	.41	12	3	.10
11	12	3	.10	27	4	.29	12	6	.19
12	12	2	.06	20	2	.11	11	8	.24
13	12	3	.10	52	11	1.5	10	10	.27
14	19	5	.26	76	5	1.0	9.1	12	.29
15	31	4	.33	72	4	.78	8.0	12	.26
16	32	4	.35	55	3	.45	29	18	1.8
17	32	4	.35	37	3	.30	79	10	2.1
18	30	4	.32	26	3	.21	83	16	3.6
19	29	5	.39	20	2	.11	67	11	2.0
20	29	5	.39	18	2	.10	47	12	1.5
21	29	5	.39	16	2	.09	41	7	.77
22	28	4	.30	15	2	.08	28	2	.15
23	28	4	.30	13	3	.11	24	2	.13
24	28	4	.30	15	2	.08	24	6	.39
25	32	7	.60	12	3	.10	31	7	.59
26	46	8	.99	12	2	.06	38	8	.82
27	49	6	.79	12	2	.06	36	2	.19
28	48	6	.78	10	2	.05	32	2	.17
29	43	4	.46	22	5	.30	28	3	.23
30	38	3	.31	34	3	.28	24	2	.13
31	34	3	.28	---	---	---	22	2	.12
TOTAL	693.9	---	8.39	936	---	11.41	897.1	---	17.79

01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	21	2	.11	111	5	1.5	89	4	.96
2	19	1	.05	119	6	1.9	201	18	10
3	18	1	.05	371	44	44	241	4	2.6
4	17	2	.09	486	11	15	201	3	1.6
5	24	3	.19	308	10	8.3	168	7	3.2
6	35	4	.38	216	9	5.2	140	3	1.1
7	45	4	.49	189	8	4.1	133	6	2.2
8	49	5	.66	129	6	2.1	159	11	4.8
9	38	5	.51	116	6	1.9	297	13	10
10	30	3	.24	105	4	1.1	299	13	10
11	133	64	24	75	3	.61	255	6	4.1
12	193	54	29	58	5	.78	292	20	16
13	165	17	8.1	58	5	.78	272	26	19
14	110	8	2.4	58	6	.94	210	12	6.8
15	63	7	1.2	60	4	.65	160	2	.86
16	43	8	.93	60	3	.49	127	1	.34
17	33	13	1.2	93	4	1.0	106	1	.29
18	31	10	.84	105	3	.85	97	2	.52
19	30	8	.65	107	3	.87	335	35	32
20	30	5	.41	105	9	2.6	431	7	8.1
21	30	13	1.1	93	4	1.0	344	7	6.5
22	30	15	1.2	100	3	.81	313	5	4.2
23	37	17	1.7	103	3	.83	238	4	2.6
24	114	22	7.3	113	5	1.5	181	3	1.5
25	189	11	5.9	119	4	1.3	143	4	1.5
26	189	11	5.6	116	3	.94	117	2	.63
27	142	14	5.4	100	2	.54	102	3	.83
28	100	14	3.8	88	3	.71	202	20	12
29	80	12	2.6	---	---	---	227	5	3.1
30	63	5	.85	---	---	---	177	5	2.4
31	73	5	.99	---	---	---	137	3	1.1
TOTAL	2174	---	107.94	3761	---	102.30	6394	---	170.83
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	110	4	1.2	108	7	2.0	220	2	1.2
2	94	2	.51	94	10	2.5	186	3	1.5
3	125	17	6.1	84	12	2.7	147	1	.40
4	232	11	7.4	84	10	2.3	178	9	4.3
5	194	4	2.1	89	8	1.9	202	4	2.2
6	150	2	.81	82	6	1.3	175	1	.47
7	120	4	1.3	68	6	1.1	143	2	.77
8	113	7	2.1	56	7	1.1	116	2	.63
9	163	14	6.2	55	11	1.6	93	2	.50
10	274	102	86	53	10	1.4	74	5	1.0
11	978	43	115	49	12	1.6	61	12	2.0
12	570	10	16	43	20	2.3	51	6	.83
13	328	5	4.4	41	16	1.8	42	5	.57
14	227	6	3.7	39	10	1.1	35	7	.66
15	177	2	.96	37	10	1.0	30	9	.73
16	186	23	12	41	7	.77	32	5	.43
17	575	19	30	54	7	1.0	39	6	.63
18	438	7	8.3	54	6	.87	39	6	.63
19	383	8	7.9	46	6	.75	36	4	.39
20	446	10	12	42	7	.79	32	7	.60
21	326	1	.88	43	6	.70	28	11	.83
22	238	4	2.6	46	8	.99	24	8	.52
23	186	4	2.0	56	10	1.5	20	6	.32
24	294	39	32	58	14	2.2	18	8	.39
25	504	15	21	69	12	2.2	16	5	.22
26	362	12	12	65	8	1.4	14	8	.30
27	256	9	6.2	223	35	22	15	11	.57
28	194	5	2.6	324	14	12	49	15	2.1
29	156	6	2.5	258	6	4.2	67	9	1.6
30	129	8	2.8	247	10	6.7	59	7	1.1
31	---	---	---	242	3	2.0	---	---	---
TOTAL	8528	---	408.56	2850	---	85.77	2241	---	28.39

CONNECTICUT RIVER BASIN

01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	42	5	.57	6.3	4	.07	3.8	4	.04
2	28	8	.60	6.3	4	.07	2.9	4	.03
3	22	7	.42	4.4	3	.04	2.8	4	.03
4	19	4	.21	3.6	7	.07	2.8	4	.03
5	16	4	.17	3.6	6	.06	2.6	2	.01
6	19	3	.15	3.3	3	.03	2.4	4	.03
7	17	4	.18	3.3	3	.03	2.0	4	.02
8	15	2	.08	2.6	2	.01	2.0	3	.02
9	13	1	.04	2.4	7	.05	1.6	3	.01
10	12	1	.03	2.3	9	.06	1.4	6	.02
11	9.6	3	.08	2.6	7	.05	1.5	6	.02
12	8.5	2	.05	19	12	.65	1.5	2	.00
13	7.1	3	.06	35	6	.57	2.0	4	.02
14	6.7	7	.13	33	5	.45	5.9	3	.05
15	5.9	6	.10	22	3	.18	5.1	7	.10
16	5.5	13	.19	13	4	.14	4.8	7	.09
17	5.1	18	.25	8.0	5	.11	5.1	1	.01
18	4.1	16	.18	6.7	3	.05	5.1	1	.01
19	3.6	6	.06	7.1	1	.02	4.4	1	.01
20	3.6	1	.00	6.3	1	.02	4.4	1	.01
21	3.6	2	.02	4.4	1	.01	4.8	3	.04
22	3.8	2	.02	3.3	1	.00	15	11	.50
23	3.6	3	.03	2.8	1	.00	9.1	3	.07
24	8.0	8	.17	2.4	1	.00	3.3	5	.04
25	9.6	3	.08	2.2	1	.00	3.0	4	.03
26	10	3	.08	2.2	4	.02	2.8	2	.02
27	8.0	7	.15	2.0	1	.00	2.6	2	.01
28	6.7	4	.07	2.8	1	.00	2.5	4	.03
29	5.1	3	.04	3.8	1	.01	2.7	5	.04
30	7.6	5	.10	3.6	3	.03	4.1	4	.04
31	9.6	3	.08	3.8	10	.10	---	---	---
TOTAL	338.3	---	4.39	224.1	---	2.90	114.0	---	1.38
YEAR	29151.4		950.05						

CONNECTICUT RIVER BASIN

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01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT

LOCATION.--Lat 41°34'00", long 72°38'53", Middlesex County, Hydrologic Unit 01080205, at Penn Central Co. railroad bridge, at Middletown, 0.5 mi (0.8 km) downstream from Mattabesset River and 0.6 mi (1.0 km) upstream from Sumner Brook.

DRAINAGE AREA.--10,869 mi² (28,151 km²).

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

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
OCT 20...	1315	168	7.6	21.5	12.5	2.0	10.4	95	2000	800	--	--
NOV 15...	1300	132	7.3	7.0	8.5	1.0	10.5	90	9500	4600	40	10
DEC 14...	1400	137	7.3	2.5	1.5	1.3	13.2	93	4100	1000	--	--
JAN 12...	1430	125	7.1	7.0	3.0	5.0	13.0	98	6000	18000	33	12
MAR 07...	1300	104	7.4	4.5	3.0	4.0	13.4	99	1200	740	--	--
APR 13...	1315	77	7.2	14.5	6.5	2.7	12.1	97	880	2000	--	--
MAY 18...	1200	92	7.3	15.0	12.0	1.1	10.3	94	760	880	30	9
JUN 14...	1200	113	7.0	31.0	21.5	2.0	8.1	91	96	120	--	--
JUL 12...	1200	134	7.6	32.0	25.0	0.56	10.3	124	56	290	44	13
AUG 09...	1230	155	7.5	29.0	27.5	1.5	9.3	118	320	200	--	--
SEP 02...	1155	153	7.4	28.0	24.5	2.5	7.5	89	190	120	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	ALKA- LITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 20...	--	--	--	16	14	--	97	30	0.13	114	0.66	0.04
NOV 15...	13	1.9	30	11	10	4.8	78	59	0.11	94	0.48	0.02
DEC 14...	--	--	--	13	9.3	--	90	22	0.12	92	0.58	0.02
JAN 12...	10	1.9	21	12	12	6.2	78	55	0.11	--	0.58	0.02
MAR 07...	--	--	--	12	11	--	57	23	0.08	97	0.39	<0.01
APR 13...	--	--	--	6.0	6.2	--	46	12	0.06	76	0.19	0.01
MAY 18...	9.8	1.4	21	10	17	5.2	76	56	0.1	72	0.29	<0.01
JUN 14...	--	--	--	10	9.4	--	74	19	0.1	83	0.39	0.01
JUL 12...	14	2.2	31	12	12	3.8	87	63	0.12	87	0.38	0.02
AUG 09...	--	--	--	13	15	--	96	28	0.13	107	0.38	0.02
SEP 02...	--	--	--	14	14	--	87	28	0.12	106	0.36	0.04

CONNECTICUT RIVER BASIN

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 20...	0.7	0.27	0.00	0.2	0.9	0.19	0.14	1	<1	2	<1	9.00
NOV 15...	0.5	0.18	0.42	0.6	1.1	0.08	0.05	<1	<1	<1	<1	15
DEC 14...	0.6	0.35	0.65	1.00	1.6	0.11	0.08	1	1	8	6	4.00
JAN 12...	0.6	0.28	0.32	0.6	1.2	0.19	0.07	1	<1	17	<1	11
MAR 07...	0.4	0.13	1.2	1.30	1.7	0.07	0.03	1	<1	7	3	6.00
APR 13...	0.2	0.04	0.26	0.3	0.5	0.07	0.02	1	<1	3	2	6.00
MAY 18...	0.3	0.11	0.39	0.5	0.8	0.04	0.03	1	1	<1	<1	5.00
JUN 14...	0.4	0.20	0.5	0.7	1.1	0.07	0.06	1	1	11	3	5.00
JUL 12...	0.4	0.12	0.68	0.8	1.2	0.09	0.06	1	<1	<1	<1	8.00
AUG 09...	0.4	0.06	0.84	0.9	1.3	0.10	0.07	1	1	6	<1	9.00
SEP 02...	0.4	0.22	0.88	1.10	1.5	0.16	0.09	1	1	3	<1	9.00

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	5	340	--	7.00	<1	--	8.00	4	10	10	5.7
NOV 15...	5	330	77	4.00	2	17	3.00	2	20	17	4.3
DEC 14...	4	340	--	4.00	8	--	4.00	1	20	10	3.9
JAN 12...	3	1400	140	9.00	1	33	7.00	4	30	6.00	4.5
MAR 07...	2	950	--	480	2	--	3.00	3	20	10	3.2
APR 13...	9	1500	--	8.00	3	--	4.00	4	20	10	4.7
MAY 18...	10	650	94	2.00	1	20	2.00	2	20	3.00	3.3
JUN 14...	1	530	--	3.00	1	--	5.00	2	20	10	13
JUL 12...	15	340	42	31	7	2	4.00	5	30	5.00	4.4
AUG 09...	10	320	--	9.00	1	--	7.00	2	40	30	3.6
SEP 02...	5	320	--	5.00	<1	--	1.00	5	20	10	4.7

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), upstream from mouth.

DRAINAGE AREA.--10,887 mi² (28,197 km²) rev.

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 or missing.

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 office at Hartford, Conn.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91,900 ft³/s (2,600 m³/s) Apr. 28, gage height, 21.24 ft (6.474 m).

OCTOBER 1982 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	694 (0745)	-461 (1300)	623 (2000)	-365	
2	-43 (0100)	661 (0830)	-391 (1345)	501 (2015)	-361
3	-134 (0200)	563 (0845)	-524 (1430)	605 (2115)	-260
4	-186 (0230)	607 (0930)	-457 (1500)	626 (2200)	-148
5	-274 (0315)	569 (1000)	-503 (1530)	704 (2300)	-41
6	-299 (0345)	564 (1045)	-476 (1615)	668 (2400)	0
7	-320 (0445)	509 (1130)	-487 (1715)	622	
8	20 (0045)	-366 (0545)	527 (1230)	-452 (1800)	570
9	102 (0145)	-352 (0645)	542 (1345)	-399 (1900)	459
10	178 (0215)	-516 (0815)	631 (1500)	-385 (2015)	398
11	387 (0415)	-334 (0900)	542 (1600)	-488 (2145)	194
12	483 (0500)	-365 (1015)	593 (1715)	-432 (2230)	88
13	606 (0600)	-401 (1100)	679 (1830)	-451 (2345)	15
14	756 (0700)	-411 (1200)	626 (1915)	-379	
15	-4 (0015)	647 (0745)	-381 (1245)	619 (2015)	-295
16	-36 (0100)	558 (0815)	-437 (1330)	579 (2100)	-226
17	-81 (0145)	525 (0900)	-357 (1430)	425 (2115)	-180
18	-172 (0245)	435 (0930)	-424 (1515)	526 (2230)	-77
19	-198 (0315)	472 (1015)	-371 (1530)	587 (2330)	-17
20	-219 (0345)	539 (1100)	-341 (1600)	617 (2400)	0
21	-236 (0430)	519 (1200)	-281 (1645)	537	
22	39 (0115)	-201 (0515)	410 (1230)	-310 (1745)	447
23	67 (0130)	-226 (0630)	383 (1330)	-269 (1845)	361
24	120 (0230)	-199 (0715)	372 (1415)	-318 (1945)	275
25	162 (0300)	-269 (0845)	309 (1500)	-342 (2100)	149
26	250 (0415)	-234 (0900)	431 (1615)	-349 (2145)	137
27	364 (0445)	-306 (1015)	488 (1715)	-283 (2200)	113
28	478 (0600)	-298 (1100)	487 (1800)	-300 (2315)	32
29	450 (0615)	-387 (1145)	495 (1845)	-338 (2400)	5
30	495 (0700)	-373 (1215)	521 (1930)	-296	
31	-9 (0030)	508 (0730)	-378 (1300)	536 (2015)	-261

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

NOVEMBER 1982 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	-56 (0115)	459 (0800)	-435 (1345)	549 (2100)	-216
2	-116 (0200)	458 (0845)	-446 (1430)	616 (2200)	-134
3	-156 (0245)	519 (0930)	-436 (1500)	651 (2245)	-70
4	-232 (0330)	551 (1030)	-409 (1600)	664 (2330)	-13
5	-260 (0415)	589 (1145)	-263 (1615)	698	
6	77 (0145)	-105 (0445)	540 (1245)	-241 (1715)	617
7	156 (0230)	-94 (0545)	619 (1415)	-192 (1815)	499
8	282 (0415)	-61 (0645)	612 (1530)	-159 (1915)	357
9	372 (0500)	-105 (0815)	546 (1630)	-200 (2045)	233
10	458 (0530)	-144 (0900)	684 (1815)	-132 (2130)	157
11	532 (0615)	-191 (1015)	621 (1845)	-167 (2230)	67
12	521 (0630)	-277 (1130)	564 (1915)	-234 (2400)	1
13	485 (0730)	-182 (1145)	803 (2145)	-49 (2400)	0
14	633 (0830)	-199 (1245)	786 (2145)	-62	
15	-8 (0045)	763 (0945)	-128 (1300)	910	
16	732 (1015)	-135 (1345)	794 (2400)	-1	
17	-5 (0115)	662 (1045)	-153 (1430)	678 (2330)	-9
18	-96 (0245)	593 (1115)	-194 (1515)	609 (2400)	-1
19	-129 (0345)	521 (1145)	-176 (1600)	601	
20	6 (0030)	-139 (0430)	490 (1215)	-178 (1630)	609
21	64 (0145)	-86 (0500)	472 (1315)	-176 (1715)	466
22	98 (0215)	-128 (0615)	454 (1415)	-150 (1800)	409
23	158 (0300)	-142 (0700)	510 (1515)	-114 (1845)	338
24	225 (0345)	-146 (0800)	894		
25	333 (0500)	-113 (0900)	464 (1730)	-67 (2045)	192
26	385 (0545)	-113 (0945)	577 (1845)	-54 (2115)	118
27	471 (0700)	-111 (1030)	467 (1845)	-158 (2300)	31
28	452 (0630)	-265 (1130)	599 (2000)	-135 (2330)	12
29	513 (0730)	-266 (1200)	742 (2130)	-54 (2345)	1
30	598 (0830)	-209 (1245)	743 (2200)	-51	

DECEMBER 1982 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	-9 (0045)	573 (0845)	-290 (1345)	707 (2230)	-48
2	-64 (0145)	543 (0945)	-260 (1430)	727 (2330)	-9
3	-102 (0245)	540 (1030)	-268 (1530)	759	
4	3 (0015)	-107 (0330)	617 (1200)	-162 (1545)	717
5	81 (0145)	-56 (0430)	597 (1245)	-181 (1700)	614
6	101 (0145)	-161 (0545)	643 (1415)	-110 (1745)	517
7	225 (0315)	-88 (0630)	623 (1545)	-88 (1915)	326
8	275 (0415)	-110 (0800)	536 (1630)	-119 (2015)	233
9	343 (0445)	-144 (0900)	743 (1915)	-29 (2130)	111
10	312 (0515)	-277 (1030)	564 (1830)	-159 (2215)	72
11	450 (0615)	-260 (1115)	580 (1945)	-136 (2330)	13
12	417 (0645)	-343 (1230)	454 (1945)	-258	
13	-24 (0100)	379 (0715)	-348 (1300)	506 (2045)	-148
14	-23 (0100)	488 (0830)	-209 (1300)	697 (2215)	-29
15	-6 (0045)	522 (0915)	-206 (1345)	582 (2215)	-60
16	-80 (0215)	436 (0915)	-326 (1500)	730 (2400)	0
17	-24 (0200)	584 (1045)	-183 (1500)	622 (2345)	-2
18	-122 (0330)	525 (1115)	-162 (1515)	752	
19	4 (0015)	-100 (0400)	653 (1215)	-162 (1600)	727
20	56 (0130)	-89 (0445)	617 (1245)	-143 (1645)	663
21	136 (0300)	-2 (0400)	759 (1500)	-11 (1630)	521
22	156 (0300)	-71 (0615)	468 (1445)	-114 (1815)	401
23	240 (0400)	-27 (0630)	594 (1600)	-60 (1900)	317
24	245 (0400)	-121 (0745)	594 (1645)	-78 (2015)	228
25	299 (0445)	-154 (0845)	608 (1745)	-94 (2115)	149
26	370 (0545)	-151 (0945)	632 (1945)	-45 (2215)	64
27	393 (0615)	-191 (1045)	600 (1930)	-119 (2300)	28
28	529 (0700)	-245 (1130)	829 (2100)	-50 (2315)	21
29	767 (0845)	-146 (1200)	886 (2215)	-28	
30	0 (0015)	660 (0900)	-228 (1315)	835 (2300)	-24
31	-37 (0130)	656 (0945)	-250 (1415)	815 (2330)	-10

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JANUARY 1983 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	852 (1100)	-209 (1500)	818		
2	10 (0030)	-61 (0300)	693 (1200)	-193 (1600)	730
3	34 (0100)	-144 (0430)	637 (1300)	-170 (1700)	553
4	87 (0200)	-103 (0515)	576 (1345)	-156 (1800)	442
5	139 (0230)	-116 (0630)	595 (1500)	-117 (1845)	343
6	199 (0330)	-182 (0745)	555 (1615)	-110 (2015)	235
7	260 (0415)	-171 (0845)	599 (1730)	-90 (2045)	206
8	419 (0545)	-84 (0915)	592 (1845)	-84 (2200)	90
9	376 (0600)	-197 (1045)	519 (1915)	-121 (2300)	24
10	377 (0630)	-291 (1145)	554 (2000)	-176	
11	-2 (0015)	479 (0830)	-64 (1115)	1311	
12	3064				
13	3445				
14	2773				
15	1077 (1145)	-76 (1415)	835		
16	0 (0015)	-23 (0200)	825 (1145)	-88 (1445)	834
17	632 (1145)	-133 (1530)	658		
18	58 (0215)	0 (0245)	685 (1315)	-58 (1600)	733
19	959 (1430)	-35 (1645)	565		
20	198 (0345)	-6 (0500)	757 (1545)	-16 (1730)	507
21	1084 (1615)	-15 (1800)	474		
22	314 (0430)	-42 (0645)	784 (1715)	-7 (1830)	410
23	356 (0445)	-97 (0800)	737 (1730)	-87 (2045)	216
24	391 (0515)	-132 (0845)	1246		
25	650 (0730)	-14 (0900)	1559		
26	2705				
27	2690				
28	2252				
29	2185				
30	2196				
31	1986				

FEBRUARY 1983 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	1841				
2	1939				
3	2604				
4	4227				
5	4944				
6	4395				
7	3373				
8	2897				
9	2294				
10	1926				
11	743 (1000)	-65 (1230)	819 (2315)	-14	
12	-54 (0145)	1840			
13	863 (1130)	-42 (1345)	777		
14	1626				
15	10 (0045)	-14 (0230)	566 (1215)	-61 (1500)	764
16	2402				
17	2246				
18	2308				
19	2014				
20	204 (0245)	-137 (0630)	1291		
21	240 (0330)	-161 (0715)	833 (1745)	-11 (1900)	325
22	351 (0445)	-150 (0815)	792 (1815)	-53 (2100)	193
23	447 (0530)	-179 (0945)	871 (1930)	-57 (2200)	109
24	644 (0700)	-150 (1045)	880 (2015)	-78 (2300)	32
25	784 (0800)	-182 (1145)	884 (2100)	-85 (2400)	3
26	770 (0845)	-205 (1245)	847 (2200)	-79	
27	-25 (0100)	686 (0930)	-231 (1330)	795 (2245)	-53
28	-66 (0145)	725 (1030)	-168 (1415)	738 (2300)	-36

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MARCH 1983 FLOW IN MILLIONS OF CUBIC FEET							
DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	-140 (0245)	726 (1115)	-201 (1500)	731 (2330)	-9		
2	-229 (0345)	844 (1330)	-5 (1430)	850			
3	26 (0100)	-109 (0400)	1878				
4	2705						
5	2734						
6	2498						
7	2153						
8	2121						
9	2915						
10	3373						
11	3312						
12	3948						
13	4449						
14	4182						
15	2017 (1300)	-109 (1400)	52 (1500)	-86 (1515)	2 (1530)	-6 (1545)	1058
16	3190						
17	3146						
18	2959						
19	3455						
20	6224						
21	7360						
22	8303						
23	8080						
24	7104						
25	5852						
26	4527						
27	3577						
28	3321						
29	3328						
30	3178						
31	2949						

APRIL 1983 FLOW IN MILLIONS OF CUBIC FEET							
DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	3093						
2	2506						
3	2735						
4	3393						
5	3498						
6	3329						
7	3231						
8	3276						
9	4171						
10	4925						
11	4921						
12	6092						
13	6330						
14	6019						
15	5201						
16	4545						
17	4894						
18	5130						
19	5271						
20	6736						
21	7700						
22	7086						
23	6200						
24	5358						
25	5792						
26	6797						
27	7590						
28	7840						
29	7577						
30	6898						

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MAY 1983 FLOW IN MILLIONS OF CUBIC FEET						
DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	6232					
2	5786					
3	5950					
4	6579					
5	6980					
6	6863					
7	6408					
8	5470					
9	4294					
10	4223					
11	4302					
12	4363					
13	4105					
14	3944					
15	3342					
16	2921					
17	3164					
18	3124					
19	3168					
20	2871					
21	2459					
22	1939 (2030)	-9 (2145)	130			
23	2044 (2115)	-19 (2245)	51			
24	2491					
25	3434					
26	3428					
27	3402					
28	4249					
29	4405					
30	4162					
31	3915					

JUNE 1983 FLOW IN MILLIONS OF CUBIC FEET						
DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	4637					
2	4874					
3	4495					
4	4007					
5	4025					
6	3577					
7	3041					
8	2848					
9	2870					
10	2469 (2215)	-67				
11	2867 (2245)	-51				
12	-76 (0130)	1321 (1300)	-1 (1330)	981 (2300)	-46	
13	-188 (0245)	1057 (1215)	-151 (1515)	787 (2330)	-18	
14	-271 (0330)	991 (1245)	-181 (1615)	851		
15	29 (0045)	-218 (0430)	982 (1345)	-182 (1715)	737	
16	121 (0145)	-219 (0530)	969 (1445)	-171 (1815)	635	
17	246 (0300)	-187 (0630)	808 (1515)	-263 (1930)	481	
18	376 (0415)	-164 (0730)	816 (1615)	-236 (2015)	369	
19	553 (0530)	-116 (0845)	745 (1715)	-271 (2115)	234	
20	670 (0630)	-144 (1000)	659 (1800)	-296 (2215)	126	
21	763 (0730)	-152 (1045)	663 (1900)	-269 (2300)	50	
22	864 (0830)	-135 (1145)	684 (1945)	-253 (2345)	2	
23	873 (0915)	-156 (1230)	619 (2030)	-247		
24	-9 (0030)	821 (0945)	-179 (1315)	590 (2100)	-236	
25	-76 (0130)	789 (1015)	-176 (1400)	526 (2130)	-174	
26	-135 (0215)	737 (1045)	-261 (1500)	551 (2215)	-96	
27	-203 (0300)	715 (1115)	-256 (1545)	576 (2315)	-18	
28	-240 (0330)	724 (1215)	-244 (1630)	712		
29	17 (0045)	-164 (0400)	833 (1315)	-197 (1645)	657	
30	52 (0115)	-150 (0430)	741 (1330)	-213 (1730)	572	

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JULY 1983 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)
1	103 (0200)	-155 (0530)	649 (1400)	-235 (1815)	502
2	160 (0245)	-145 (0600)	643 (1445)	-252 (1900)	455
3	242 (0330)	-175 (0715)	555 (1515)	-361 (2015)	342
4	345 (0415)	-227 (0815)	549 (1545)	-358 (2115)	242
5	450 (0515)	-215 (0930)	520 (1645)	-328 (2145)	157
6	560 (0615)	-201 (1015)	616 (1815)	-282 (2230)	89
7	755 (0745)	-146 (1115)	608 (1845)	-384 (2315)	39
8	889 (0830)	-228 (1200)	628 (1915)	-439	
9	-2 (0015)	915 (0900)	-268 (1300)	657 (2015)	-404
10	-88 (0130)	835 (0930)	-337 (1400)	616 (2100)	-332
11	-219 (0230)	802 (1030)	-366 (1500)	608 (2145)	-187
12	-351 (0330)	788 (1115)	-396 (1545)	701 (2300)	-49
13	-470 (0415)	828 (1215)	-404 (1700)	659 (2400)	-1
14	-488 (0515)	751 (1300)	-470 (1800)	633	
15	67 (0115)	-468 (0615)	749 (1345)	-549 (1915)	535
16	193 (0215)	-431 (0715)	662 (1430)	-698 (2030)	358
17	351 (0330)	-400 (0830)	657 (1530)	-688 (2130)	265
18	537 (0445)	-369 (0930)	621 (1615)	-598 (2215)	132
19	616 (0600)	-314 (1030)	522 (1715)	-609 (2315)	44
20	733 (0700)	-339 (1130)	557 (1815)	-510 (2400)	6
21	738 (0745)	-352 (1230)	513 (1915)	-512	
22	-28 (0045)	795 (0915)	-205 (1330)	368 (1900)	-641
23	-118 (0130)	747 (0900)	-415 (1400)	594 (2030)	-346
24	-134 (0200)	735 (0915)	-436 (1445)	571 (2115)	-249
25	-197 (0230)	760 (1015)	-427 (1530)	563 (2200)	-175
26	-291 (0315)	712 (1045)	-441 (1545)	600 (2245)	-73
27	-350 (0345)	683 (1130)	-403 (1630)	597 (2330)	-7
28	-349 (0415)	655 (1200)	-400 (1700)	587	
29	7 (0030)	-324 (0500)	607 (1245)	-376 (1745)	534
30	44 (0115)	-287 (0530)	561 (1315)	-385 (1815)	489
31	95 (0200)	-328 (0645)	532 (1345)	-513 (1945)	405

AUGUST 1983 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)	FLOW VOL. (REV.) (TIME)
1	196 (0245)	-324 (0745)	521 (1430)	-502 (2015)	337
2	315 (0345)	-255 (0815)	574 (1545)	-404 (2045)	252
3	457 (0515)	-230 (0930)	431 (1615)	-477 (2200)	128
4	578 (0615)	-227 (1030)	492 (1745)	-410 (2245)	44
5	623 (0715)	-228 (1130)	457 (1845)	-405 (2400)	1
6	616 (0815)	-278 (1230)	482 (1900)	-553	
7	-14 (0030)	762 (0815)	-388 (1300)	559 (1945)	-492
8	-98 (0130)	710 (0900)	-412 (1400)	591 (2030)	-406
9	-186 (0200)	798 (0945)	-448 (1430)	687 (2130)	-263
10	-287 (0300)	799 (1030)	-452 (1515)	706 (2230)	-111
11	-360 (0330)	772 (1115)	-456 (1615)	761 (2330)	-21
12	-458 (0415)	876 (1215)	-427 (1700)	790	
13	34 (0045)	-346 (0500)	762 (1300)	-446 (1745)	726
14	145 (0200)	-260 (0545)	729 (1345)	-447 (1845)	605
15	258 (0300)	-263 (0700)	642 (1430)	-467 (1945)	451
16	365 (0400)	-250 (0800)	612 (1530)	-441 (2045)	306
17	477 (0515)	-224 (0915)	582 (1645)	-383 (2145)	196
18	550 (0600)	-293 (1030)	550 (1745)	-419 (2245)	76
19	677 (0645)	-355 (1130)	573 (1830)	-381 (2330)	17
20	738 (0730)	-345 (1215)	564 (1930)	-377	
21	-5 (0015)	670 (0815)	-345 (1315)	532 (2000)	-339
22	-38 (0100)	655 (0845)	-411 (1400)	549 (2030)	-301
23	-90 (0130)	697 (0915)	-369 (1415)	573 (2115)	-234
24	-172 (0215)	699 (1000)	-403 (1500)	592 (2200)	-144
25	-228 (0245)	665 (1030)	-405 (1530)	630 (2245)	-64
26	-274 (0330)	613 (1045)	-428 (1615)	611 (2330)	-15
27	-310 (0400)	568 (1115)	-443 (1645)	625 (2400)	0
28	-339 (0445)	548 (1145)	-467 (1730)	605	
29	19 (0045)	-350 (0515)	558 (1230)	-469 (1800)	587
30	84 (0145)	-305 (0615)	565 (1330)	-413 (1845)	522
31	175 (0245)	-274 (0700)	562 (1415)	-392 (1930)	419

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

SEPTEMBER 1983 FLOW IN MILLIONS OF CUBIC FEET

DAY NO.	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)	FLOW (REV.) VOL. (TIME)
1	289 (0345)	-245 (0800)	563 (1530)	-401 (2030)	329
2	496 (0530)	-172 (0900)	578 (1630)	-388 (2130)	211
3	582 (0600)	-267 (1015)	567 (1730)	-443 (2300)	67
4	632 (0630)	-348 (1130)	559 (1830)	-464 (2400)	3
5	690 (0730)	-387 (1230)	565 (1930)	-452	
6	-43 (0100)	677 (0815)	-426 (1330)	625 (2030)	-365
7	-126 (0145)	703 (0915)	-450 (1415)	691 (2145)	-215
8	-199 (0230)	726 (1000)	-444 (1500)	698 (2230)	-97
9	-292 (0315)	655 (1030)	-495 (1600)	666 (2330)	-27
10	-369 (0415)	609 (1115)	-504 (1700)	668	
11	3 (0015)	-376 (0515)	570 (1200)	-651 (1800)	641
12	70 (0115)	-342 (0600)	568 (1300)	-512 (1845)	526
13	163 (0215)	-343 (0700)	506 (1400)	-464 (1945)	409
14	229 (0315)	-329 (0815)	470 (1500)	-468 (2045)	296
15	369 (0415)	-297 (0915)	460 (1600)	-459 (2145)	195
16	500 (0530)	-297 (1015)	479 (1715)	-444 (2245)	69
17	585 (0615)	-318 (1100)	564 (1815)	-424 (2330)	9
18	654 (0700)	-383 (1200)	534 (1900)	-435	
19	-4 (0015)	653 (0745)	-409 (1300)	585 (1945)	-407
20	-47 (0100)	671 (0830)	-446 (1345)	593 (2030)	-349
21	-110 (0145)	658 (0845)	-541 (1415)	643 (2115)	-300
22	-224 (0230)	767 (0945)	-403 (1430)	745 (2200)	-161
23	-223 (0230)	711 (1000)	-523 (1515)	821 (2300)	-58

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, Hydrologic Unit 01080205, on pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi (1.3 km) south of Middle Haddam, 7.6 mi (12.2 km) upstream from Salmon River, and 6.1 mi (9.8 km) south of Middletown.

DRAINAGE AREA.--10,897 mi² (28,223 km²) rev.

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. Interruptions of the record due to malfunctions of the instrument. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records. 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. Stream tidal affected.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 483 micromhos Aug. 18, 1975; minimum, 33 micromhos March 23, 1980.

pH: Maximum, 9.7 units July 3, 1975; minimum, 4.9 units Apr. 23, 1976.

WATER TEMPERATURES: Maximum, 33.0°C July 12, 1970; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 17, 1980; minimum 0.6 mg/L Aug. 11, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 172 micromhos Aug. 3; minimum, 69 micromhos April 21, May 4.

pH: Maximum, 9.1 units July 3, 4, 10, 17; minimum, 6.5 units May 3-5.

WATER TEMPERATURES: Maximum, 29.0°C July 21; minimum, 0.5°C Jan. 16-18.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L April 2; minimum, 6.4 mg/L June 30, Aug. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)
OCT 18...	1445	146	7.6	17.0	14.0	7.0	12.7	120	150	68
NOV 15...	1030	125	6.9	6.0	12.0	1.0	10.6	96	5300	7300
DEC 13...	0945	142	7.3	<5.0	3.5	3.9	11.6	85	3300	3400
JAN 14...	1415	102	7.0	1.0	1.5	3.3	14.0	98	3400	4100
MAR 07...	1035	112	7.1	6.0	3.0	6.3	14.5	107	3200	2500
APR 14...	0945	80	7.0	10.0	7.0	9.0	12.8	102	2900	1100
MAY 19...	1000	92	7.0	19.0	13.0	1.5	9.9	91	420	210
JUN 15...	0925	113	7.0	23.5	23.0	2.5	8.2	93	80	40
JUL 12...	0925	136	7.7	23.0	25.0	2.0	8.2	96	37	48
AUG 10...	0940	151	7.7	19.5	27.0	1.4	7.8	96	80	110
SEP 02...	0900	160	7.2	21.0	25.0	1.1	7.8	92	160	160

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	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, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT 18...	--	--	--	--	--	15	13	--	94	28
NOV 15...	44	14	14	2.1	30	12	9.5	5.2	80	61
DEC 13...	--	--	--	--	--	14	8.8	--	82	23
JAN 14...	31	11	9.7	1.6	20	11	9.6	5.9	71	50
MAR 07...	--	--	--	--	--	12	11	--	58	23
APR 14...	--	--	--	--	--	7.0	6.6	--	52	14
MAY 19...	34	12	11	1.7	22	10	19	5.8	79	61
JUN 15...	--	--	--	--	--	11	9.7	--	78	21
JUL 12...	42	13	13	2.2	29	12	13	3.6	98	61
AUG 10...	--	--	--	--	--	13	15	--	102	28
SEP 02...	--	--	--	--	--	15	15	--	95	30

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
OCT 18...	0.13	102	0.56	0.04	0.6	0.21	0.59	0.8	1.4	0.17
NOV 15...	0.11	87	0.49	0.01	0.5	0.22	0.38	0.6	1.1	0.10
DEC 13...	0.11	89	0.58	0.02	0.6	0.32	0.58	0.9	1.5	0.14
JAN 14...	0.1	87	0.49	0.01	0.5	0.20	1.2	1.40	1.9	0.11
MAR 07...	0.08	87	0.49	0.01	0.5	0.17	0.33	0.5	1.0	0.08
APR 14...	0.07	67	0.29	0.01	0.3	0.06	0.34	0.4	0.7	0.08
MAY 19...	0.11	--	0.29	<0.01	0.3	0.14	0.56	0.7	1.0	0.05
JUN 15...	0.11	93	0.39	<0.01	0.4	0.12	0.28	0.4	0.8	0.09
JUL 12...	0.13	92	0.28	0.02	0.3	0.07	0.63	0.7	1.0	0.08
AUG 10...	0.14	118	0.58	0.02	0.6	0.21	1.2	1.40	2.0	0.09
SEP 02...	0.13	105	0.46	0.04	0.5	0.29	1.0	1.30	1.8	0.24

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	0.16	1	<1	6	--	1	--	4	20	3.9
NOV 15...	0.07	1	<1	4	91	1	14	7	<4.00	4.3
DEC 13...	0.09	5	<1	1	--	1	--	3	10	5.0
JAN 14...	0.04	<1	4	2	85	2	15	2	6.00	4.7
MAR 07...	0.03	<1	3	3	--	2	--	3	10	3.2
APR 14...	0.01	1	3	12	--	12	--	3	20	8.3
MAY 19...	0.03	1	<1	9	110	2	23	2	5.00	4.1
JUN 15...	0.05	<1	6	4	--	<1	--	2	<10	4.1
JUL 12...	0.06	2	<1	10	40	2	2	2	6.00	5.5
AUG 10...	0.06	<1	<1	7	--	2	--	2	20	4.1
SEP 02...	0.09	1	<1	10	--	<1	--	5	20	4.8

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	93	84	88	148	140	144	166	165	165	168	165	167
2	85	81	83	144	140	142	167	165	166	167	154	160
3	89	83	86	145	142	143	172	167	170	156	147	153
4	94	87	91	145	142	143	170	162	167	150	147	148
5	97	88	91	147	144	146	162	159	161	151	147	150
6	92	87	90	149	146	147	160	157	158	150	148	149
7	95	90	93	154	146	150	160	156	158	151	149	150
8	96	90	93	146	137	141	161	157	160	159	151	154
9	94	87	90	138	127	130	160	157	159	161	157	160
10	96	90	93	129	124	127	161	159	160	164	160	161
11	101	95	98	127	122	124	160	158	160	---	---	---
12	104	100	102	131	123	126	161	151	157	---	---	---
13	109	100	105	148	129	138	155	148	152	---	---	---
14	116	108	112	153	145	149	153	144	148	---	---	---
15	118	115	116	154	150	152	145	140	143	---	---	---
16	124	116	120	155	153	154	144	140	142	---	---	---
17	123	120	121	155	154	154	144	140	143	---	---	---
18	127	121	123	156	154	155	146	141	144	---	---	---
19	128	125	127	161	157	159	146	143	144	---	---	---
20	128	124	126	161	159	160	151	145	148	---	---	---
21	128	124	126	165	161	163	158	150	153	---	---	---
22	131	126	128	165	161	163	160	153	158	---	---	---
23	136	131	133	164	162	163	160	158	159	---	---	---
24	132	128	130	164	162	163	160	157	159	---	---	---
25	131	129	130	167	162	164	160	156	159	---	---	---
26	136	129	133	168	164	167	158	152	155	---	---	---
27	136	133	134	168	166	167	157	153	155	---	---	---
28	143	133	137	167	166	167	157	156	157	---	---	---
29	152	144	149	169	167	168	159	155	156	---	---	---
30	150	144	147	169	164	168	163	158	160	---	---	---
31	---	---	---	165	164	164	164	162	163	---	---	---
MONTH	152	81	113	169	122	152	172	140	156	168	147	155
YEAR	172	69	125									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.8	7.1	7.3	8.3	7.5	7.9	7.2	7.1	7.1	7.2	7.1	7.1
2	8.2	7.2	7.6	8.2	7.5	7.8	7.1	7.1	7.1	7.2	7.1	7.2
3	8.5	7.4	7.8	7.6	7.3	7.4	7.2	7.0	7.0	7.2	7.1	7.2
4	8.4	7.5	7.9	7.3	7.2	7.2	7.0	7.0	7.0	7.3	7.1	7.2
5	8.1	7.4	7.7	7.3	7.1	7.2	7.0	6.9	7.0	7.3	7.2	7.2
6	8.1	7.4	7.8	7.1	7.0	7.0	7.0	6.9	7.0	7.3	7.2	7.2
7	8.4	7.7	8.1	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.1	7.2
8	8.2	7.7	8.0	7.1	7.0	7.1	7.0	7.0	7.0	7.2	7.1	7.1
9	7.7	7.3	7.5	7.2	7.1	7.1	7.1	6.9	7.0	7.1	7.1	7.1
10	7.6	7.2	7.3	7.4	7.2	7.2	7.1	7.0	7.0	7.1	7.1	7.1
11	7.2	7.1	7.1	7.3	7.2	7.2	7.1	7.0	7.1	7.1	7.0	7.1
12	7.1	7.0	7.0	7.3	7.2	7.2	7.2	7.1	7.1	7.1	6.9	7.0
13	7.1	7.0	7.0	7.4	7.2	7.3	7.2	7.0	7.1	7.0	6.9	7.0
14	7.1	7.0	7.0	7.3	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.0
15	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.0
16	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.0
17	7.4	7.0	7.2	7.2	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.0
18	7.4	7.1	7.2	7.1	7.1	7.1	7.2	7.1	7.2	7.1	6.9	7.0
19	7.4	7.2	7.3	7.1	7.0	7.1	7.2	7.1	7.1	---	---	---
20	7.5	7.3	7.4	7.0	7.0	7.0	7.2	7.1	7.1	---	---	---
21	7.5	7.3	7.4	7.0	7.0	7.0	7.2	7.1	7.1	---	---	---
22	7.5	7.2	7.3	7.0	6.9	7.0	7.2	7.1	7.2	---	---	---
23	7.6	7.2	7.4	7.0	6.9	6.9	7.2	7.1	7.2	---	---	---
24	7.7	7.3	7.4	7.0	6.9	6.9	7.2	7.1	7.1	---	---	---
25	7.4	7.2	7.3	7.1	7.0	7.0	7.2	7.1	7.1	---	---	---
26	7.3	7.1	7.2	7.1	7.0	7.0	7.2	7.1	7.1	---	---	---
27	7.4	7.2	7.3	7.2	7.1	7.1	7.2	7.1	7.1	---	---	---
28	7.9	7.3	7.5	7.2	7.1	7.2	7.1	7.1	7.1	---	---	---
29	8.2	7.4	7.7	7.2	7.1	7.2	7.1	7.0	7.1	---	---	---
30	8.7	7.7	8.1	7.2	7.1	7.2	7.1	7.0	7.1	---	---	---
31	8.4	7.7	8.0	---	---	---	7.1	7.1	7.1	---	---	---
MONTH	8.7	7.0	7.5	8.3	6.9	7.2	7.2	6.9	7.1	7.3	6.9	7.1

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

PH (UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--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
2							6.8	6.7	6.7	7.1	7.0	7.0
3							6.8	6.7	6.7	7.0	6.5	6.7
4							6.7	6.7	6.7	6.6	6.5	6.5
5							6.8	6.7	6.7	6.6	6.5	6.5
6							6.8	6.8	6.8	6.6	6.6	6.6
7							6.8	6.8	6.8	6.7	6.6	6.6
8							6.9	6.8	6.9	6.7	6.7	6.7
9							6.9	6.8	6.9	6.7	6.7	6.7
10							7.0	6.9	6.9	6.7	6.6	6.6
11							7.0	6.9	6.9	6.7	6.7	6.7
12							7.0	6.8	6.9	6.8	6.7	6.8
13							6.9	6.8	6.9	6.9	6.8	6.8
14							6.9	6.8	6.9	6.8	6.8	6.8
15							7.0	6.9	6.9	6.9	6.8	6.8
16							7.0	6.9	6.9	6.8	6.8	6.8
17							7.0	6.9	7.0	6.8	6.8	6.8
18							7.0	6.9	7.0	6.9	6.8	6.8
19							7.1	7.0	7.0	6.9	6.8	6.8
20							7.0	6.9	6.9	6.9	6.8	6.8
21							7.0	6.9	6.9	6.8	6.8	6.8
22							7.1	6.9	7.0	6.8	6.7	6.7
23							7.1	6.9	7.0	6.7	6.7	6.7
24							7.1	7.0	7.0	6.7	6.6	6.7
25							7.1	6.9	6.9	6.7	6.6	6.7
26							6.9	6.9	6.9	6.8	6.7	6.7
27							7.1	6.9	7.0	6.8	6.7	6.7
28							8.0	7.0	7.3	6.8	6.7	6.7
29							8.8	7.0	7.5	6.8	6.8	6.8
30							7.0	7.0	7.0	6.9	6.8	6.8
31							---	---	---	6.8	6.7	6.8
MONTH							8.8	6.7	6.9	7.1	6.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6.8	6.8	6.8	8.4	7.1	7.6	8.5	8.0	8.2	7.5	7.1	7.3
2	6.8	6.8	6.8	8.6	7.3	7.8	8.4	7.8	8.2	7.7	7.2	7.4
3	6.8	6.8	6.8	9.1	7.5	8.4	8.5	7.7	8.2	8.0	7.2	7.5
4	6.8	6.8	6.8	9.1	8.6	8.9	8.2	7.6	7.9	8.2	7.3	7.7
5	6.8	6.7	6.7	9.0	8.7	8.8	7.7	7.2	7.4	8.4	7.3	7.8
6	6.8	6.7	6.8	9.0	8.2	8.7	7.5	7.1	7.3	8.5	7.5	8.0
7	6.8	6.7	6.8	9.0	8.4	8.7	7.9	7.1	7.4	8.5	7.7	8.0
8	6.7	6.7	6.7	8.9	8.1	8.6	8.2	7.2	7.6	8.5	7.5	8.0
9	6.8	6.7	6.7	9.0	8.5	8.7	8.4	7.4	7.8	8.7	7.7	8.3
10	6.8	6.7	6.8	9.1	8.3	8.6	8.7	7.5	8.1	8.8	8.3	8.6
11	6.9	6.7	6.8	8.7	7.8	8.3	8.2	7.6	7.8	---	---	---
12	6.9	6.7	6.8	8.4	7.6	8.0	7.6	7.3	7.4	---	---	---
13	6.9	6.7	6.8	8.8	7.7	8.2	7.3	7.0	7.2	---	---	---
14	7.0	6.8	6.9	8.8	7.9	8.3	7.2	7.0	7.1	---	---	---
15	7.1	6.8	6.9	8.6	7.8	8.1	7.5	7.1	7.3	---	---	---
16	7.0	6.8	6.9	8.9	7.9	8.4	7.9	7.1	7.5	---	---	---
17	7.0	6.9	6.9	9.1	8.4	8.7	8.3	7.4	7.9	---	---	---
18	7.1	6.9	7.0	8.9	8.4	8.6	7.9	7.4	7.6	---	---	---
19	7.0	6.9	6.9	8.5	7.9	8.2	7.9	7.3	7.6	---	---	---
20	7.1	6.9	7.0	8.8	7.8	8.1	8.3	7.3	7.7	---	---	---
21	7.3	7.0	7.1	8.9	8.1	8.5	8.5	7.3	7.8	---	---	---
22	7.4	7.0	7.1	8.8	8.0	8.4	8.2	7.3	7.8	---	---	---
23	8.4	7.1	7.4	8.6	7.7	8.1	8.5	7.6	8.0	---	---	---
24	8.2	7.2	7.5	8.0	7.5	7.7	8.7	7.8	8.2	---	---	---
25	8.6	7.2	7.7	7.9	7.3	7.5	8.7	7.9	8.4	---	---	---
26	8.8	7.3	8.0	8.1	7.3	7.6	8.7	8.2	8.4	---	---	---
27	8.8	7.8	8.3	8.5	7.4	7.8	8.7	8.3	8.5	---	---	---
28	8.0	7.1	7.5	8.6	7.5	8.1	8.5	7.9	8.3	---	---	---
29	7.6	7.0	7.1	8.8	8.0	8.4	7.9	7.4	7.6	---	---	---
30	7.8	7.0	7.2	8.8	8.3	8.5	7.4	7.3	7.4	---	---	---
31	---	---	---	8.7	8.0	8.4	7.3	7.2	7.2	---	---	---
MONTH	8.8	6.7	7.1	9.1	7.1	8.3	8.7	7.0	7.8	8.8	7.1	7.9
YEAR	9.1	6.5	7.3									

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.0	8.6	9.3	13.1	11.5	12.3	11.7	11.2	11.5	13.0	12.4	12.8
2	10.6	8.1	9.3	12.7	11.3	11.9	11.6	11.1	11.3	13.2	12.7	12.9
3	11.0	9.2	10.0	11.5	10.2	10.8	11.5	11.0	11.3	13.4	12.6	13.1
4	10.6	9.2	9.9	10.3	9.8	10.0	11.6	11.1	11.4	13.4	12.3	13.1
5	10.4	9.2	9.7	9.9	8.5	9.3	11.3	11.0	11.1	13.5	13.0	13.2
6	10.3	9.0	9.8	8.6	7.5	8.2	11.3	10.8	11.1	13.6	13.1	13.3
7	11.1	9.8	10.4	8.7	7.5	8.1	11.1	10.6	10.9	14.2	13.0	13.4
8	10.6	9.9	10.3	9.5	8.8	9.0	10.8	10.5	10.6	13.2	12.4	12.9
9	9.1	8.9	9.5	9.9	9.5	9.7	11.0	10.5	10.7	12.9	12.4	12.7
10	9.7	8.6	9.0	10.2	9.9	10.0	11.5	10.7	11.1	12.9	12.3	12.7
11	8.7	8.1	8.4	10.5	10.1	10.2	11.3	10.9	11.1	13.0	12.6	12.8
12	8.4	8.0	8.2	10.5	10.1	10.4	11.6	11.2	11.4	12.8	12.3	12.5
13	8.7	8.1	8.4	10.4	10.1	10.2	11.9	11.1	11.6	13.1	12.5	12.8
14	9.0	8.4	8.6	10.1	9.3	9.7	12.3	11.7	12.0	13.3	12.6	13.1
15	9.1	8.3	8.7	10.5	9.6	9.9	12.9	12.1	12.4	13.3	13.1	13.2
16	8.9	8.3	8.7	10.5	10.3	10.4	13.0	12.6	12.9	13.3	13.0	13.1
17	9.8	8.4	9.1	10.7	10.4	10.5	13.1	12.6	12.9	13.3	12.5	12.8
18	10.2	9.1	9.5	11.0	10.5	10.7	13.0	12.3	12.6	12.9	12.5	12.7
19	10.0	9.0	9.5	11.1	10.6	10.8	13.0	12.4	12.8	---	---	---
20	10.4	9.4	10.0	11.1	10.6	10.8	13.3	13.0	13.2	---	---	---
21	11.0	9.9	10.4	11.0	10.6	10.8	13.5	13.2	13.3	---	---	---
22	10.9	9.8	10.4	10.9	10.5	10.7	13.7	12.9	13.3	---	---	---
23	11.0	9.7	10.3	10.8	10.4	10.6	13.2	12.9	13.0	---	---	---
24	11.1	9.8	10.4	10.6	10.2	10.4	13.4	12.9	13.2	---	---	---
25	10.5	9.7	10.2	10.8	10.3	10.5	13.3	10.2	12.4	---	---	---
26	10.3	9.3	9.9	10.8	10.3	10.5	12.7	11.2	12.0	---	---	---
27	11.0	9.8	10.4	11.5	10.7	11.2	13.0	12.3	12.7	---	---	---
28	12.3	10.6	11.6	11.6	11.1	11.3	12.9	12.4	12.6	---	---	---
29	13.2	11.4	12.2	11.7	11.1	11.4	13.2	12.1	12.7	---	---	---
30	14.0	12.3	12.9	11.7	11.2	11.5	12.7	12.4	12.6	---	---	---
31	13.4	12.0	12.7	---	---	---	12.6	12.2	12.5	---	---	---
MONTH	14.0	8.0	9.9	13.1	7.5	10.4	13.7	10.2	12.1	14.2	12.3	13.0

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT

LOCATION.--Lat 41°32'53", long 72°26'59", Middlesex County, Hydrologic Unit 01080205, on left bank at Route 16 Bridge 450 ft (140 m) downstream from New London-Middlesex County line, 300 ft (91 m) downstream from Comstock Bridge, 0.7 mi (1.1 km) downstream from Dickinson Creek, and 3.5 mi (5.6 km) southeast of East Hampton.

DRAINAGE AREA.--100 mi² (259 km²) rev.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1201: 1929. WDR CT-78-1: 1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 63.71 ft (19.419 m) National Geodetic Vertical Datum of 1929. Prior to June 23, 1974, at datum 2.99 ft (0.911 m) higher; prior to May 20, 1980, at datum 2.80 ft (0.853 m) higher and at site 400 ft (120 m) upstream.

REMARKS.--Records good. Slight regulation at low flow by ponds upstream.

AVERAGE DISCHARGE.--55 years, 184 ft³/s (5.211 m³/s), 24.99 in/yr (635 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s (524 m³/s) June 6, 1982, by contracted-opening measurement, gage height, 14.40 ft (4.389 m); minimum, 1.0 ft³/s (0.028 m³/s) Oct. 31, 1935, gage height, -0.17 ft (-0.052 m); minimum daily, about 1 ft³/s (0.028 m³/s) Oct. 13, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	0945	1,680 47.6	6.76 2.060	Apr. 17	0500	1460 41.3	6.51 1.984
Feb. 3	1145	1,970 55.8	7.07 2.155	19	2115	4200 119	8.81 2.685
Mar. 19	1445	2,820 79.9	7.85 2.393	24	2015	2590 73.3	7.66 2.335
Apr. 11	0030	*4,520 128	*9.01 2.746				

Minimum discharge, 6.8 ft³/s (0.19 m³/s) Sept. 12, gage height, 2.73 ft (0.832 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	49	123	101	303	279	327	366	421	73	16	11
2	29	47	107	98	272	677	292	344	302	81	16	11
3	25	46	98	96	1350	584	396	337	237	95	14	10
4	24	55	96	88	845	400	537	408	546	63	13	9.4
5	24	263	91	93	446	362	373	388	457	53	13	9.1
6	23	208	94	172	313	313	313	313	295	69	16	8.8
7	23	119	94	203	292	377	282	269	246	55	16	8.2
8	23	91	86	153	296	450	358	253	207	47	14	7.7
9	70	79	82	123	266	968	599	279	161	42	12	7.4
10	69	71	73	112	221	614	1200	241	141	36	11	7.2
11	52	64	73	1220	195	510	2590	221	130	33	12	7.2
12	42	64	76	666	210	896	903	208	115	31	52	6.9
13	40	425	71	362	216	629	609	197	99	29	62	8.2
14	50	388	94	253	221	442	496	190	90	26	36	8.5
15	48	250	94	229	218	381	429	195	83	23	26	8.5
16	41	195	241	205	221	330	505	230	78	22	20	8.2
17	36	153	337	220	263	296	1230	303	76	20	17	8.2
18	32	124	182	175	437	289	661	224	73	19	17	8.5
19	32	112	134	167	388	2020	1910	185	72	19	19	8.5
20	31	105	121	199	306	1330	2140	185	69	20	17	8.5
21	33	98	115	185	275	827	982	187	62	20	14	7.9
22	33	98	107	185	285	796	688	172	55	22	12	29
23	31	94	101	342	306	551	555	238	51	18	12	22
24	30	88	117	802	340	446	1410	218	45	34	11	16
25	36	82	158	560	320	388	1490	187	41	39	10	13
26	138	79	175	396	282	344	814	156	38	29	9.7	12
27	107	76	138	299	238	327	614	761	47	23	9.4	11
28	76	69	124	247	244	915	519	699	246	19	9.4	10
29	62	170	121	230	---	614	450	352	224	18	11	9.4
30	55	163	110	218	---	429	408	614	103	17	11	9.4
31	52	---	103	303	---	362	---	716	---	16	11	---
TOTAL	1400	3925	3736	8702	9569	18146	24080	9636	4810	1111	539.5	310.7
MEAN	45.2	131	121	281	342	585	803	311	160	35.8	17.4	10.4
MAX	138	425	337	1220	1350	2020	2590	761	546	95	62	29
MIN	23	46	71	88	195	279	282	156	38	16	9.4	6.9
CFSM	.45	1.31	1.21	2.81	3.42	5.85	8.03	3.11	1.60	.36	.17	.10
IN.	.52	1.46	1.29	3.24	3.56	6.75	8.96	3.58	1.79	.41	.20	.12
CAL YR 1982	TOTAL	87275.0	MEAN 239	MAX 8040	MIN 20	CFSM 2.39	IN 32.47					
WTR YR 1983	TOTAL	85965.2	MEAN 236	MAX 2590	MIN 6.9	CFSM 2.36	IN 31.98					

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.

SUSPENDED-SEDIMENT DISCHARGE: January 1982 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. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records. Daily suspended-sediment record for January, 1982 to September 1982 is published in this report. Specific conductance data missing from December 1982 to May 1983 due to destruction of probe, which could not be replaced due to hydrologic conditions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 215 micromhos Feb. 8, 1981; minimum, 23 micromhos February 23, 1978.

WATER TEMPERATURES: Maximum, 32.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3870 mg/L June 6, 1982; minimum daily mean, 0 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 95400 tons (86600 Mg) June 6, 1982; minimum daily, 0 ton (0 Mg) on numerous days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 166 micromhos Oct. 31, Nov. 1; minimum, 64 micromhos June 2, 3.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 8; minimum, 0.0°C on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily, mean, 427 mg/L Apr. 10; minimum daily mean, 0 mg/L on numerous day.

SEDIMENT LOADS: Maximum daily, 2290 tons (2080 Mg) Mar. 19; minimum daily, 0 ton (0 Mg) on numerous days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, (PER- CENT UM-MF (COLS./ 100 ML)
OCT 20...	1200	32	112	7.5	14.0	9.0	4.0	12.2	104	20
NOV 15...	1415	256	87	7.0	5.5	6.5	1.0	12.7	103	820
DEC 14...	1500	107	114	7.1	2.0	0.0	1.7	15.7	106	20
JAN 17...	1445	220	92	7.0	-2.0	0.5	1.8	15.0	106	24
MAR 03...	1330	560	80	7.0	9.0	5.0	0.7	13.2	105	20
APR 13...	1445	620	67	7.0	14.5	11.0	0.8	11.1	99	K6
MAY 18...	1345	226	77	7.3	17.0	13.0	0.6	11.5	107	30
JUN 14...	1330	92	81	7.2	28.5	23.0	0.7	9.2	107	64
JUL 12...	1300	32	98	8.5	30.0	24.0	0.67	10.0	118	45
AUG 09...	1330	13	111	7.1	28.0	25.5	0.4	9.3	113	100
SEP 02...	1315	11	118	7.5	28.0	24.5	0.4	9.0	107	180

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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	100	--	--	--	--	--	10	14	--	75
NOV 15...	2400	18	10	4.9	1.3	8.0	11	11	9.2	66
DEC 14...	34	--	--	--	--	--	12	12	--	71
JAN 17...	88	19	12	5.3	1.5	7.0	11	11	8.6	56
MAR 03...	400	--	--	--	--	--	12	11	--	41
APR 13...	K5	--	--	--	--	--	8.0	8.7	--	44
MAY 18...	20	18	8	4.7	1.4	10	10	8.0	6.5	70
JUN 14...	220	--	--	--	--	--	9.0	10	--	61
JUL 12...	480	22	8	6.2	1.7	14	9.0	14	8.2	74
AUG 09...	1100	--	--	--	--	--	10	17	--	70
SEP 02...	620	--	--	--	--	--	11	18	--	75

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 20...	24	0.1	6.4	65	0.09	<0.01	<0.1	<0.01	0.89	0.9
NOV 15...	42	0.09	45.6	67	0.19	<0.01	0.2	0.03	0.17	0.2
DEC 14...	24	0.1	20.5	84	0.29	<0.01	0.3	<0.01	2.1	2.10
JAN 17...	42	0.08	33.3	58	0.39	<0.01	0.4	0.02	0.08	0.1
MAR 03...	23	0.06	62.0	61	0.49	<0.01	0.5	0.01	0.39	0.4
APR 13...	17	0.06	73.7	50	0.29	<0.01	0.3	0.01	0.19	0.2
MAY 18...	37	0.09	42.7	54	0.19	<0.01	0.2	0.01	0.69	0.7
JUN 14...	19	0.08	15.1	61	0.19	<0.01	0.2	<0.01	0.29	0.3
JUL 12...	48	0.1	6.4	67	0.19	<0.01	0.2	<0.01	0.39	0.4
AUG 09...	27	0.09	2.5	79	0.19	0.01	0.2	0.07	0.83	0.9
SEP 02...	29	0.1	2.2	76	0.19	<0.01	0.2	0.04	0.36	0.4

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 20...	1.0	0.01	0.01	--	1	--	<1	--	3	--
NOV 15...	0.4	0.02	0.02	<1	<1	3	<1	6.00	1	410
DEC 14...	2.4	0.02	0.01	--	2	--	<1	--	1	--
JAN 17...	0.5	0.22	0.06	3	<1	9	3	3.00	1	280
MAR 03...	0.9	0.03	0.01	1	1	6	<1	5.00	2	290
APR 13...	0.5	0.01	0.01	--	<1	--	<1	--	7	--
MAY 18...	0.9	0.02	0.01	1	2	8	<1	4.00	7	460
JUN 14...	0.5	0.03	0.03	--	<1	--	<1	--	1	--
JUL 12...	0.6	0.04	0.03	1	<1	<1	<1	7.00	--	520
AUG 09...	1.1	0.05	0.05	--	1	--	<1	--	5	--
SEP 02...	0.6	0.03	0.05	1	1	1	<1	7.00	2	190

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	--	--	<1	--	--	2	--	10	4.3
NOV 15...	200	1.00	2	16	2.00	2	10	<4.00	5.0
DEC 14...	--	--	3	--	--	3	--	<10	2.6
JAN 17...	89	2.00	1	29	3.00	2	30	<4.00	--
MAR 03...	--	10	3	--	3.00	4	20	30	3.2
APR 13...	--	--	3	--	--	2	--	20	3.4
MAY 18...	170	2.00	2	22	3.00	1	10	3.00	3.0
JUN 14...	--	--	<1	--	--	2	--	<10	3.4
JUL 12...	190	9.00	4	7	7.00	2	30	5.00	3.5
AUG 09...	--	--	<1	--	--	1	--	10	2.9
SEP 02...	--	4.00	<1	--	<1.00	3	50	10	2.9

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	130	101	112	166	105	136	130	116	123			
2	128	101	108	147	103	126	129	120	128			
3	126	101	107	142	103	119	133	124	128			
4	120	102	107	115	104	109	124	111	118			
5	128	102	109	102	67	85	127	119	124			
6	119	102	108	87	84	86	123	109	113			
7	121	105	111	120	87	102	119	106	112			
8	120	90	109	114	93	105	141	109	125			
9	106	84	101	97	89	93	141	125	135			
10	129	99	106	130	90	111	134	115	125			
11	144	100	117	144	131	137	---	---	---			
12	146	111	124	134	103	121	---	---	---			
13	135	104	119	108	66	86	---	---	---			
14	146	106	123	108	80	93	---	---	---			
15	152	103	126	89	80	84	---	---	---			
16	137	101	118	119	82	99	---	---	---			
17	125	102	115	113	105	109	---	---	---			
18	128	109	119	120	111	116	---	---	---			
19	118	107	114	122	110	118	---	---	---			
20	120	103	111	124	119	122	---	---	---			
21	117	102	108	123	114	120	---	---	---			
22	122	102	111	129	114	124	---	---	---			
23	119	112	116	135	115	128	---	---	---			
24	116	105	112	133	117	128	---	---	---			
25	139	102	115	144	116	127	---	---	---			
26	125	91	99	147	136	143	---	---	---			
27	136	92	116	149	136	143	---	---	---			
28	145	115	129	159	121	143	---	---	---			
29	158	112	144	159	110	124	---	---	---			
30	162	107	143	125	111	118	---	---	---			
31	166	106	143	---	---	---	---	---	---			
MONTH	166	84	116	166	66	115	141	106	123			

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	89	86	87	113	109	111	122	119	120
2	77	64	71	90	83	88	114	110	112	122	119	121
3	77	64	71	93	85	91	115	111	113	121	119	121
4	---	---	---	95	91	93	114	110	112	122	119	120
5	---	---	---	96	94	95	114	111	113	125	118	122
6	---	---	---	96	94	95	119	112	115	---	---	---
7	---	---	---	97	94	96	121	117	119	---	---	---
8	---	---	---	98	95	96	119	114	117	---	---	---
9	74	69	72	99	95	97	119	113	117	---	---	---
10	---	---	---	100	96	98	119	115	117	---	---	---
11	---	---	---	101	96	98	119	110	115	---	---	---
12	---	---	---	102	97	99	111	97	104	---	---	---
13	---	---	---	104	98	101	113	98	107	---	---	---
14	---	---	---	105	101	102	113	109	111	---	---	---
15	---	---	---	106	101	103	112	108	110	---	---	---
16	---	---	---	107	102	104	112	108	110	---	---	---
17	---	---	---	108	104	106	113	109	111	---	---	---
18	---	---	---	109	104	106	114	108	111	---	---	---
19	---	---	---	109	105	107	115	111	113	---	---	---
20	---	---	---	112	104	107	115	111	113	---	---	---
21	---	---	---	113	106	109	117	114	115	---	---	---
22	---	---	---	111	104	106	116	112	114	141	111	120
23	---	---	---	112	108	110	118	113	116	120	111	114
24	---	---	---	112	95	104	118	116	117	122	116	119
25	---	---	---	110	101	105	118	114	116	123	119	121
26	---	---	---	113	109	110	119	114	117	126	122	124
27	---	---	---	112	108	110	119	115	118	125	120	122
28	---	---	---	112	108	110	120	116	118	122	118	120
29	---	---	---	113	108	110	120	116	118	121	118	120
30	---	---	---	113	109	111	121	119	120	124	119	121
31	---	---	---	113	108	110	122	119	121	---	---	---
MONTH	77	64	71	113	83	102	122	97	114	141	111	120

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	14			82			61		
2	105			79			734		
3	96			68			567		
4	57			61			311		
5	42			60			233		
6	38			80			215		
7	32			96			208		
8	26			71			197		
9	23			61			190		
10	21			58			173		
11	20			52			158		
12	20			49			146		
13	19			45			132		
14	19			45			129		
15	18			47			393		
16	18			55			949		
17	18			61			559		
18	24			197			364		
19	137			204			277		
20	92			169			218		
21	59			251			211		
22	45			178			252		
23	40			135			331		
24	146			113			449		
25	116			95			342		
26	154			85			263		
27	174			82			242		
28	326			80			244		
29	188			72			252		
30	119			62			240		
31	93			---			195		
TOTAL	2299			2793			9235		

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	362	---	---	1500	200	859	158	6	2.6
2	613	---	---	954	42	112	177	4	1.9
3	343	---	---	1230	99	323	173	6	2.8
4	1650	---	---	1560	62	261	138	12	4.5
5	2410	---	---	822	59	131	316	9	7.7
6	889	---	---	575	18	28	282	5	3.8
7	665	---	---	420	21	24	345	19	18
8	494	---	---	368	17	17	502	21	28
9	403	---	---	290	14	11	290	6	4.7
10	299	---	---	270	8	5.8	247	3	2.0
11	265	---	---	252	7	4.8	244	5	3.3
12	249	---	---	241	4	2.6	288	4	3.1
13	236	---	---	230	4	2.5	304	5	4.1
14	229	---	---	221	7	4.2	321	4	3.5
15	220	---	---	233	6	3.8	262	6	4.2
16	212	---	---	342	6	5.5	238	4	2.6
17	207	---	---	329	5	4.4	247	4	2.7
18	202	---	---	253	4	2.7	278	3	2.3
19	199	---	---	226	3	1.8	252	2	1.4
20	196	---	---	241	6	3.9	228	4	2.5
21	193	---	---	247	8	5.3	215	3	1.7
22	189	---	---	227	4	2.5	227	6	3.7
23	186	---	---	206	2	1.1	202	8	4.4
24	182	---	---	195	3	1.6	185	4	2.0
25	180	---	---	185	9	4.5	179	1	.48
26	178	---	---	178	8	3.8	233	2	1.3
27	174	---	---	170	8	3.7	244	2	1.3
28	170	10	4.6	165	4	1.8	190	2	1.0
29	168	4	1.8	---	---	---	174	5	2.3
30	166	4	1.8	---	---	---	169	3	1.4
31	164	16	7.1	---	---	---	186	14	7.2
TOTAL	12293	---	15.3	12130	---	1832.3	7494	---	132.48

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	338	19	17	270	6	4.4	241	6	3.9
2	246	4	2.7	246	7	4.7	1290	158	540
3	362	77	78	220	8	4.8	712	22	44
4	1350	95	342	205	4	2.2	373	10	10
5	650	12	21	190	4	2.1	2680	2160	16300
6	432	8	9.3	175	3	1.4	8040	3870	95400
7	372	7	7.0	160	3	1.3	1890	158	821
8	368	7	7.0	150	4	1.6	1060	21	60
9	352	7	6.7	140	4	1.5	699	9	17
10	382	7	7.2	130	5	1.8	523	5	7.1
11	495	6	8.0	122	5	1.6	412	3	3.3
12	538	6	8.7	118	6	1.9	351	3	2.8
13	437	6	7.1	111	7	2.1	373	8	7.8
14	361	5	4.9	108	7	2.0	833	10	22
15	310	5	4.2	102	7	1.9	574	5	7.8
16	278	6	4.5	97	7	1.8	412	4	4.5
17	271	6	4.4	93	7	1.8	496	4	5.4
18	379	9	9.2	89	7	1.7	373	4	4.0
19	338	5	4.6	85	8	1.8	320	3	2.6
20	279	5	3.8	120	21	6.8	303	4	3.3
21	260	4	2.8	175	15	7.1	266	3	2.2
22	232	4	2.5	124	15	5.0	292	4	3.2
23	225	4	4.4	110	13	3.9	259	3	2.1
24	219	4	2.4	163	17	7.5	221	2	1.2
25	211	4	2.3	280	12	9.1	190	2	1.0
26	231	10	6.0	173	7	3.3	167	2	.90
27	723	79	154	117	4	1.3	158	2	.85
28	504	37	50	95	3	.77	151	1	.41
29	384	23	24	341	39	36	160	3	1.3
30	306	11	9.1	397	12	14	208	2	1.1
31	---	---	---	273	6	4.4	---	---	---
TOTAL	11833	---	764.8	5179	---	141.57	24027	---	113270.8
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	158	2	.85	47	5	.64	40	49	5.3
2	130	2	.70	41	4	.44	134	63	24
3	119	3	.96	38	5	.51	94	54	14
4	113	3	.91	37	5	.50	66	18	3.1
5	103	4	1.1	35	4	.39	52	4	.56
6	94	2	.51	33	4	.36	42	3	.34
7	89	3	.72	31	2	.17	38	4	.41
8	86	6	1.4	29	3	.24	33	7	.62
9	80	10	2.2	77	15	3.2	31	16	1.3
10	73	6	1.2	195	32	17	29	13	1.0
11	69	4	.75	100	5	1.4	26	6	.42
12	69	5	.93	76	1	.21	25	3	.20
13	71	5	.96	62	1	.16	25	3	.20
14	63	11	1.9	59	1	.16	25	4	.27
15	59	7	1.1	48	1	.13	23	6	.37
16	56	4	.61	41	1	.11	23	2	.12
17	53	4	.57	42	4	.45	23	2	.12
18	50	7	.95	77	2	.42	21	2	.11
19	46	8	.99	54	1	.15	20	3	.16
20	76	16	3.3	41	1	.11	23	4	.25
21	100	9	2.4	35	3	.28	50	4	.54
22	74	7	1.4	30	5	.41	49	2	.26
23	62	5	.84	31	6	.50	46	1	.12
24	54	7	1.0	70	6	1.1	37	1	.10
25	47	7	.89	85	7	1.6	32	2	.17
26	42	6	.68	93	2	.50	29	3	.24
27	37	6	.60	64	2	.35	34	3	.28
28	59	10	1.6	53	2	.29	43	2	.23
29	89	5	1.2	42	2	.23	38	2	.21
30	64	5	.86	36	6	.58	34	3	.28
31	53	4	.57	33	8	.71	---	---	---
TOTAL	2338	---	34.65	1735	---	33.30	1185	---	55.28
YEAR	92541		116280.48						

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982, TO SEPTEMBER 1983

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	33	3	.27	49	8	1.1	123	3	1.0
2	29	2	.16	47	8	1.0	107	3	.87
3	25	1	.07	46	9	1.1	98	4	1.1
4	24	2	.13	55	13	2.0	96	5	1.3
5	24	6	.39	263	112	80	91	4	.98
6	23	5	.31	208	29	16	94	4	1.0
7	23	5	.31	119	12	3.9	94	5	1.3
8	23	4	.25	91	16	3.9	86	5	1.2
9	70	24	4.6	79	11	2.3	82	5	1.1
10	69	14	2.6	71	10	1.9	73	5	.99
11	52	12	1.7	64	9	1.6	73	6	1.2
12	42	10	1.1	64	7	1.2	76	6	1.2
13	40	12	1.3	425	139	162	71	6	1.2
14	50	16	2.2	388	40	41	94	6	1.5
15	48	20	2.6	250	3	2.0	94	6	1.5
16	41	16	1.8	195	1	.53	241	43	29
17	36	14	1.4	153	1	.41	337	18	16
18	32	11	.95	124	1	.33	182	4	2.0
19	32	11	.95	112	1	.30	134	1	.36
20	31	11	.92	105	2	.57	121	2	.65
21	33	10	.89	98	3	.79	115	4	1.2
22	33	10	.89	98	1	.26	107	3	.87
23	31	10	.84	94	1	.25	101	2	.55
24	30	10	.81	88	2	.48	117	3	.95
25	36	25	2.3	82	3	.66	158	1	.43
26	138	46	18	79	3	.64	175	3	1.4
27	107	17	4.9	76	3	.62	138	5	1.9
28	76	11	2.3	69	4	.75	124	4	1.3
29	62	11	1.8	170	22	10	121	2	.65
30	55	10	1.5	163	3	1.3	110	1	.30
31	52	8	1.1	---	---	---	103	3	.83
TOTAL	1400	---	59.34	3925	---	338.89	3736	---	75.83
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	101	5	1.4	303	3	2.5	279	7	5.3
2	98	7	1.9	272	4	2.9	677	33	61
3	96	8	2.1	1350	68	246	584	13	20
4	88	8	1.9	845	27	61	400	4	4.3
5	93	7	1.8	446	7	8.4	362	2	2.0
6	172	36	17	313	1	.85	313	2	1.7
7	203	15	8.2	292	2	1.6	377	9	8.8
8	153	8	3.3	296	2	1.6	450	17	20
9	123	5	1.7	266	3	2.2	968	41	106
10	112	1	.30	221	5	3.0	614	9	15
11	1220	320	1020	195	6	3.2	510	5	6.9
12	666	172	301	210	6	3.4	896	25	61
13	362	112	109	216	5	2.9	629	9	15
14	253	121	84	221	4	2.4	442	8	9.5
15	229	101	62	218	3	1.8	381	6	6.2
16	205	33	18	221	3	1.8	330	2	1.8
17	220	9	5.3	263	27	18	296	1	.80
18	175	8	3.8	437	21	25	289	42	32
19	167	6	2.7	388	4	4.2	2020	425	2290
20	199	7	3.8	306	2	1.7	1330	78	272
21	185	8	4.0	275	2	1.5	827	23	52
22	185	10	5.0	285	2	1.5	796	12	25
23	342	27	21	306	4	3.3	551	8	12
24	802	36	78	340	7	6.4	446	3	3.6
25	560	19	29	320	4	3.5	388	2	2.1
26	396	16	17	282	8	6.1	344	1	.93
27	299	13	10	238	5	3.2	327	2	1.8
28	247	10	6.7	244	8	5.3	915	40	99
29	230	7	4.3	---	---	---	614	6	9.9
30	218	6	3.5	---	---	---	429	1	1.2
31	303	4	3.3	---	---	---	362	1	.98
TOTAL	8702	---	1831.00	9569	---	425.25	18146	---	3147.81

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	327	1	.88	366	3	3.0	421	8	9.1
2	292	1	.79	344	2	1.9	302	7	5.7
3	396	7	7.5	337	2	1.8	237	7	4.5
4	537	2	2.9	408	8	8.9	546	26	38
5	373	2	2.0	388	4	4.2	457	9	11
6	313	4	3.4	313	3	2.5	295	7	5.6
7	282	4	3.0	269	2	1.5	246	8	5.3
8	358	17	17	253	2	1.4	207	8	4.5
9	599	17	28	279	2	1.5	161	5	2.2
10	1200	427	1360	241	1	.65	141	3	1.1
11	2590	215	1480	221	1	.60	130	5	1.8
12	903	27	66	208	1	.56	115	5	1.6
13	609	13	21	197	1	.53	99	7	1.9
14	496	7	9.4	190	1	.51	90	8	1.9
15	429	6	6.9	195	1	.53	83	7	1.6
16	505	24	34	230	6	3.7	78	6	1.3
17	1230	31	102	303	5	4.1	76	5	1.0
18	661	8	14	224	1	.60	73	4	.79
19	1910	282	1460	185	1	.50	72	3	.58
20	2140	62	358	185	1	.50	69	3	.56
21	982	15	40	187	2	1.0	62	2	.33
22	688	6	11	172	4	1.9	55	1	.15
23	555	4	6.0	238	7	4.5	51	3	.41
24	1410	176	660	218	2	1.2	45	6	.73
25	1490	85	343	187	2	1.0	41	6	.66
26	814	34	75	156	1	.42	38	6	.62
27	614	13	22	761	58	123	47	13	1.6
28	519	5	7.0	699	22	40	246	36	24
29	450	3	3.6	352	8	7.6	224	10	6.0
30	408	3	3.3	614	22	37	103	2	.56
31	---	---	---	716	15	28	---	---	---
TOTAL	24080	---	6147.67	9636	---	285.10	4810	---	135.09
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	73	1	.20	16	1	.04	11	6	.18
2	81	7	1.6	16	1	.04	11	5	.15
3	95	10	2.6	14	0	.00	10	3	.08
4	63	6	1.0	13	0	.00	9.4	2	.05
5	53	4	.57	13	1	.04	9.1	1	.02
6	69	4	.75	16	1	.04	8.8	2	.05
7	55	3	.45	16	1	.04	8.2	2	.04
8	47	4	.51	14	0	.00	7.7	2	.04
9	42	4	.45	12	0	.00	7.4	1	.02
10	36	6	.58	11	0	.00	7.2	2	.04
11	33	5	.45	12	1	.03	7.2	1	.02
12	31	2	.17	52	10	1.5	6.9	1	.02
13	29	1	.08	62	2	.33	8.2	1	.02
14	26	2	.14	36	0	.00	8.5	1	.02
15	23	3	.19	26	0	.00	8.5	2	.05
16	22	3	.18	20	0	.00	8.2	1	.02
17	20	3	.16	17	0	.00	8.2	2	.04
18	19	2	.10	17	0	.00	8.5	1	.02
19	19	1	.05	19	0	.00	8.5	1	.02
20	20	0	.00	17	0	.00	8.5	1	.02
21	20	0	.00	14	0	.00	7.9	1	.02
22	22	0	.00	12	0	.00	29	11	.86
23	18	1	.05	12	0	.00	22	3	.18
24	34	11	1.0	11	0	.00	16	3	.13
25	39	2	.21	10	0	.00	13	1	.04
26	29	0	.00	9.7	0	.00	12	1	.03
27	23	0	.00	9.4	2	.05	11	2	.06
28	19	0	.00	9.4	3	.08	10	3	.08
29	18	0	.00	11	3	.09	9.4	2	.05
30	17	1	.05	11	3	.09	9.4	1	.03
31	16	1	.04	11	6	.18	---	---	---
TOTAL	1111	---	11.58	539.5	---	2.55	310.7	---	2.40
YEAR	85965.2		12462.51						

CONNECTICUT RIVER BASIN

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01193630 SALMON RIVER AT LEESVILLE FISHWAY AT LEESVILLE, CT

LOCATION.--Lat 41°31'01", long 72°28'59", Middlesex County, Hydrologic Unit 01080205, at Connecticut Department of Environmental Protection dam, 0.3 mi (0.5 km) upstream from intersection with CT 151.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 18, 1981 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1981.

REMARKS.--Water temperatures were recorded in both the fish ladder and the river downstream of the dam. The river temperature may be influenced by the tides during times of low flow. Interruption in the record was due to malfunction of the instrument. Occasional discharge measurements made during the period.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Fish ladder, maximum recorded, 30.0°C July 16, 1983; minimum recorded, 1.0°C Nov. 30, 1981. Salmon River, maximum, 30.5°C July 18, 1982; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum recorded, 30.0°C July 16; minimum recorded, 1.5°C Nov. 28. Salmon River, maximum, 30.0°C July 16; minimum, 0.0°C on many days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

TAKEN IN FISHWAY

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

CONNECTICUT RIVER BASIN

01193630 SALMON RIVER AT LEESVILLE FISHWAY AT LEESVILLE, CT

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

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

CONNECTICUT RIVER BASIN

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01193630 SALMON RIVER AT LEESVILLE FISHWAY AT LEESVILLE, CT

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

TAKEN IN RIVER

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

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

CONNECTICUT RIVER BASIN

01193630 SALMON RIVER AT LEESVILLE FISHWAY AT LEESVILLE, CT

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

TAKEN IN RIVER

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	17.0	15.0	16.0	---	---	---	28.0	23.5	25.0	26.0	22.0	23.5
2	18.0	15.5	16.5	---	---	---	28.5	24.0	25.5	26.0	22.5	23.5
3	18.0	15.5	16.5	---	---	---	28.5	23.0	24.5	26.0	22.0	23.5
4	17.0	16.0	16.5	---	---	---	26.5	23.0	24.5	25.0	21.5	23.0
5	18.0	16.0	17.0	---	---	---	27.0	22.5	24.5	25.5	21.5	23.0
6	19.0	16.5	18.0	---	---	---	28.0	23.0	25.5	26.0	22.0	24.0
7	19.5	18.0	18.5	---	---	---	28.5	24.0	26.0	26.5	23.0	24.5
8	19.0	17.0	18.0	---	---	---	28.5	23.5	26.0	25.5	22.5	24.5
9	18.0	15.5	17.0	25.5	22.5	24.5	28.5	24.0	25.5	23.5	20.5	22.0
10	17.5	15.0	16.5	25.0	21.5	23.5	26.5	22.5	24.5	24.0	20.5	22.0
11	19.0	15.0	17.0	24.5	21.0	23.0	25.5	21.5	23.5	25.5	21.5	23.5
12	20.5	17.0	19.0	26.5	22.5	24.5	23.0	20.5	22.0	25.0	21.5	23.5
13	22.0	18.0	20.0	28.0	24.0	26.0	21.5	20.0	20.5	23.0	21.0	22.0
14	23.0	19.0	21.0	28.5	23.5	26.0	23.5	19.0	21.0	21.0	20.0	20.5
15	23.5	19.5	21.5	28.0	23.5	25.5	24.5	20.5	22.0	19.5	18.5	19.0
16	21.5	20.0	20.5	30.0	25.0	27.0	25.0	21.0	22.5	19.0	17.5	18.0
17	22.0	19.0	20.0	29.5	25.0	26.5	26.0	21.5	23.0	19.5	17.5	18.5
18	22.0	19.0	20.0	29.0	24.5	26.0	24.5	22.0	23.0	20.5	18.0	19.0
19	21.5	19.5	20.5	27.0	24.5	25.5	27.0	21.5	23.5	22.0	18.0	19.5
20	22.0	19.0	20.5	28.5	24.0	26.0	27.5	23.0	25.0	22.5	19.0	21.0
21	21.5	18.5	20.0	28.0	24.0	26.0	27.0	22.5	24.5	23.0	20.0	21.5
22	22.5	18.0	20.5	27.5	24.0	25.0	25.5	21.0	23.0	22.5	20.5	21.5
23	23.0	18.5	21.0	26.5	22.5	24.5	25.0	21.5	23.5	20.5	17.5	18.5
24	23.5	19.0	21.5	26.5	22.5	23.5	25.0	21.0	23.0	17.5	16.0	16.5
25	22.5	19.5	21.0	24.5	21.0	23.0	24.0	20.5	22.5	16.5	15.0	15.5
26	21.0	18.0	19.5	25.5	22.0	24.0	24.0	20.5	22.0	15.5	15.0	15.5
27	22.5	18.0	19.5	25.5	22.0	23.5	25.5	21.5	23.5	16.5	14.5	15.5
28	---	---	---	25.5	22.0	23.5	26.5	22.5	24.5	17.0	15.0	16.0
29	---	---	---	25.5	22.5	23.5	25.0	22.5	24.0	16.0	14.5	15.5
30	---	---	---	26.5	22.5	24.0	24.5	22.0	23.5	15.5	15.0	15.0
31	---	---	---	28.0	23.0	24.5	24.5	22.0	23.0	---	---	---
MONTH	23.5	15.0	19.0	30.0	21.0	24.5	28.5	19.0	23.5	26.5	14.5	20.5

CONNECTICUT RIVER BASIN

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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.

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECA, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)
NOV 15...	0930	128	7.4	6.0	14.5	1.0	11.1	107	4900	18000
JAN 14...	1245	98	7.0	0.0	1.0	5.1	12.8	88	3300	6900
MAR 07...	0940	106	7.3	6.0	4.0	6.2	12.8	96	1200	500
MAY 19...	1150	92	7.0	19.0	13.0	0.8	9.6	88	500	250
JUL 12...	1030	137	7.6	26.0	25.5	1.0	8.3	99	K12	220
SEP 02...	1030	162	7.2	27.0	25.0	0.7	7.0	82	25	200

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 15...	44	15	14	2.2	29	13	9.9	5.1	77	62
JAN 14...	29	11	9.1	1.5	18	11	10	5.6	67	48
MAR 07...	--	--	--	--	--	11	10	--	57	21
MAY 19...	32	11	10	1.7	21	10	21	6.0	80	61
JUL 12...	41	13	13	2.0	28	12	13	3.3	94	60
SEP 02...	--	--	--	--	--	15	15	--	89	30

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 15...	0.1	86	0.48	0.02	0.5	0.25	0.25	0.5	1.0	0.12
JAN 14...	0.09	81	0.48	0.02	0.5	0.18	1.4	1.60	2.1	0.10
MAR 07...	0.08	82	0.39	<0.01	0.4	0.13	0.27	0.4	0.8	0.06
MAY 19...	0.11	--	0.29	<0.01	0.3	0.11	0.59	0.7	1.0	0.05
JUL 12...	0.13	101	0.28	0.02	0.3	0.07	0.63	0.7	1.0	0.10
SEP 02...	0.12	109	0.47	0.03	0.5	0.32	0.98	1.30	1.8	0.16

CONNECTICUT RIVER BASIN

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	0.07	1	<1	5	97	1	13	3	12	4.1
JAN 14...	0.03	<1	<1	4	91	1	10	1	4.00	4.0
MAR 07...	0.02	<1	7	3	--	2	--	3	10	3.0
MAY 19...	0.03	1	<1	8	110	3	22	1	4.00	4.1
JUL 12...	0.07	1	<1	7	31	4	2	3	5.00	5.3
SEP 02...	0.12	1	<1	7	--	<1	--	4	10	4.8

CONNECTICUT RIVER BASIN

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01194825 CONNECTICUT RIVER AT OLD SAYBROOK, CT

LOCATION.--Lat. 41°15'47", long. 72°20'36", Middlesex County, Hydrologic Unit 01080205, on right bank of Saybrook Jetties at Breakwater Lighthouse, 3.0 mi (4.8 km) southeast of Old Saybrook, and at mouth of Connecticut River.

DRAINAGE AREA.--11,269 mi² (29,186 km²).

PERIOD OF RECORD.--June 1976 to February 1978, at station 01194820, 0.6 mi (1.0 km) north, October 26, 1979, to current year.

REVISED RECORDS.--WDR CT-80-1: 1978 (M,m).

GAGE.--Water-stage recorder. Datum of staff gage is set at National Geodetic Vertical Datum of 1929. Datum of gage-height record is 4.56 ft (1.390 m) below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication. Prior to Feb. 1978, at site 0.6 mi (1.0 km) north at Lynde Point, at datum 5.12 ft (1.561 m) lower.

REMARKS.--Stage data in feet at 15-minute intervals available upon request. No record Nov. 22 to Dec. 20, Dec. 26 to Feb. 21, Mar. 3-29, July 17-20, July 29 to Sept. 30.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 6.65 ft (2.027 m) Feb. 6, 1978; minimum, -3.65 ft (-1.112 m) Mar. 16, 1980, Feb. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation recorded, 4.20 ft (1.280 m) Oct. 10; minimum, -2.97 ft (-0.905 m) Mar. 30.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	4.20	3.51	2.11	--	3.79	2.06	3.73	4.15	3.49	3.61	--	--
	Date	10	3	24	--	26	30	19	26	14	10	--	--
	Time	0430	1115	0445		0930	2400	1530	2200	0030	2230	--	--
Minimum low tide	Elevation	-1.93	-2.23	-1.97	--	-2.22	-2.97	-1.65	-1.73	-2.07	-1.94	--	--
	Date	17	8	21	--	27	30	30	19	12	11	--	--
	Time	1630	2215	2030	--	1615	0515	0600	1000	0500	0445	--	--

NOTE.--Time shown is eastern standard.

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, Hydrologic Unit 01080207, on West Branch Farmington River, 2 mi (3 km) west of Hartland, and 2 mi (3 km) north of Riverton. Drainage area, 127 mi² (329 km²). Usable capacity, 374,000,000 ft³ (10.6 hm³). Records available, March 1960 to current year. Completed in April 1960 for future storage of water for municipal supply of Hartford. Presently used to compensate for water diverted from the river. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01186090 MAD RIVER DETENTION RESERVOIR.--Lat 41°55'53", long 73°05'33", Litchfield County, Conn., Hydrologic Unit 01080207, on Mad River in West Branch Farmington River basin, 1.4 mi (2.3 km) northwest of Winsted. Drainage area, 18.3 mi² (47.4 km²). Usable capacity, 423,000,000 ft³ (12.0 hm³), including 8,000,000 ft³ (227,000 m³) storage in recreation pool. Records available, September 1964 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186150 SUCKER BROOK RESERVOIR.--Lat 41°54'90", 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 in 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, 31.5 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

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RESERVOIRS IN CONNECTICUT RIVER BASIN--Continued

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	01185000 OTIS RESERVOIR	01185850 COLEBROOK RIVER LAKE	01185900 WEST BRANCH RESERVOIR	01186090 MAD RIVER DETENTION RESERVOIR	01186150 SUCKER BROOK RESERVOIR
Sept. 30, 1982.....	688.0	236	278	8.3	0.04
Oct. 31.....	535.1	191	136	8.4	.04
Nov. 30.....	352.0	181	184	8.5	.13
Dec. 31.....	355.1	215	227	8.5	.13
Jan. 31, 1983.....	352.0	438	335	8.6	.17
Feb. 28.....	458.0	733	375	8.4	.39
Mar. 31.....	524.3	2310	408	8.7	.39
Apr. 30.....	711.0	3226	408	8.8	4.05
May 31.....	703.3	2435	366	8.7	.30
June 30.....	707.2	2264	408	8.6	.09
July 31.....	695.7	1901	408	8.4	.09
Aug. 31.....	695.7	1329	408	8.4	.04
Sept. 30.....	672.7	1046	408	8.4	.09

Date	01186160 HIGHLAND LAKE	01187500 BARKHAMSTED RESERVOIR	01187600 EAST BRANCH RESERVOIR	01187900 NEPAUG RESERVOIR	01188500 WHIGVILLE RESERVOIR
Sept. 30, 1982.....	76.2	3743	116	1067	3.2
Oct. 31.....	76.8	3643	115	1028	2.4
Nov. 30.....	82.1	3092	52.1	1035	3.2
Dec. 31.....	96.9	3084	100	1045	2.6
Jan. 31, 1983.....	113.9	3301	182	1180	4.7
Feb. 28.....	126.2	3576	273	1269	4.9
Mar. 31.....	137.1	4053	393	1269	5.1
Apr. 30.....	143.8	4053	393	1269	5.1
May 31.....	144.0	4053	376	1269	5.1
June 30.....	139.7	4053	361	1233	2.3
July 31.....	139.2	3937	356	1087	1.2
Aug. 31.....	140.5	3642	356	997	1.4
Sept. 30.....	87.1	3045	258	870	0.0

INDIAN RIVER BASIN

01195100 INDIAN RIVER NEAR CLINTON, CT

LOCATION.--Lat. 41°18'21", long. 72°31'54", Middlesex County, Hydrologic Unit 01100004, on right downstream side of bridge at Hurd Bridge Road, 2.0 mi (3.2 km) north of Clinton.

DRAINAGE AREA.--5.68 mi² (14.6 km²) rev.

PERIOD OF RECORD.--July 1961 to September 1973, occasional low-flow measurements. November 1981 to September 30, 1982.

GAGE.--Water-stage recorder. Datum of gage is 34.81 ft (10.610 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s (73.6 m³/s) June 6, 1982, gage height, 8.29 ft (2.527 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 21, 1983, gage height, 0.97 ft (0.296 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 266 ft³/s (7.53 m³/s) Apr. 10, gage height, 4.28 ft (1.305 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 21, gage height, 0.97 ft (0.296 m)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	1.5	6.6	3.8	16	14	14	16	23	4.0	.65	.40
2	.62	1.5	5.4	3.7	13	29	13	15	17	3.3	.65	.40
3	.59	1.5	4.5	3.5	51	21	22	14	13	3.0	.55	.20
4	.59	2.1	4.4	3.1	35	15	26	17	51	2.4	.40	.28
5	.66	6.1	4.0	3.1	22	16	18	16	33	2.5	.40	.20
6	.73	4.4	4.5	7.1	16	14	14	13	20	6.1	.20	.20
7	.73	2.7	4.5	7.1	14	20	13	11	15	3.1	.20	.20
8	.95	2.2	3.8	5.4	13	27	17	10	13	2.4	.12	.12
9	2.0	2.1	3.5	4.4	12	59	33	11	10	2.0	.12	.12
10	2.3	1.9	3.1	4.2	11	35	85	9.5	8.7	1.6	.06	.12
11	1.6	1.8	3.1	4.2	9.8	28	157	8.7	8.0	1.4	.40	.12
12	1.5	1.7	3.0	25	9.3	45	52	8.2	6.8	1.3	6.3	.20
13	1.5	14	2.9	15	9.3	30	32	8.0	6.1	1.2	3.8	.28
14	1.8	12	2.7	9.8	9.3	22	25	7.7	5.2	1.1	1.7	.28
15	1.9	7.7	2.8	7.5	9.0	17	22	10	4.5	.96	1.1	.28
16	1.6	5.8	8.0	6.5	9.5	15	35	13	11	.87	.79	.20
17	1.5	4.2	11	5.5	18	14	92	15	14	.79	.65	.20
18	1.4	3.5	6.3	5.0	36	14	40	10	7.7	.72	.65	.12
19	1.5	3.1	5.2	5.0	27	50	64	8.5	6.3	.72	.79	.06
20	1.5	2.8	4.9	5.0	21	45	53	12	5.4	.79	.65	.06
21	1.5	2.5	4.5	5.0	18	32	34	14	4.5	.79	.47	.06
22	1.5	2.5	4.2	6.2	19	30	25	12	3.8	.72	.40	.72
23	1.6	2.4	4.0	12	20	22	22	14	3.3	.72	.28	.79
24	1.5	2.4	4.9	44	22	18	69	11	2.7	.96	.28	.47
25	1.9	2.1	6.1	29	19	16	68	9.0	2.2	1.3	.20	.28
26	4.1	2.0	5.2	21	16	14	36	7.7	2.0	.96	.20	.28
27	2.9	1.9	4.5	15	14	13	26	71	2.2	.72	.20	.20
28	2.2	1.8	5.0	12	13	47	23	45	15	.65	.28	.06
29	2.0	15	4.5	11	---	28	20	25	14	.55	.47	.06
30	1.8	11	4.3	11	---	20	17	27	5.8	.65	.40	.12
31	1.6	---	4.0	19	---	16	---	34	---	.65	.40	---
TOTAL	48.23	126.2	145.4	356.9	502.2	786	1167	503.3	334.2	48.92	23.76	7.08
MEAN	1.56	4.21	4.69	11.5	17.9	25.4	38.9	16.2	11.1	1.58	.77	.24
MAX	4.1	15	11	44	51	59	157	71	51	6.1	6.3	.79
MIN	.59	1.5	2.7	3.1	9.0	13	13	7.7	2.0	.55	.06	.06
CFSM	.28	.74	.83	2.03	3.15	4.47	6.85	2.85	1.95	.28	.14	.04
IN.	.32	.83	.95	2.34	3.29	5.15	7.64	3.30	2.19	.32	.16	.05
CAL YR 1982	TOTAL	4722.41	MEAN	12.9	MAX	576	MIN	.34	CFSM	2.27	IN	30.92
WTR YR 1983	TOTAL	4049.19	MEAN	11.1	MAX	157	MIN	.06	CFSM	1.95	IN	26.51

QUINNIPIAC RIVER BASIN

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01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, Hydrologic Unit 01100004, at bridge on Cheshire Street, 3 mi (5 km) west of Meriden, and 1.7 mi (2.7 km) upstream from Hanover Pond.

DRAINAGE AREA.--69.6 mi² (180.3 km²).

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01196220, 1.2 mi (1.9 km) upstream, and adjusting its discharge by multiplying by a factor of 1.02, which is the ratio of the two stations' drainage areas.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 18...	1255	40	324	7.4	17.0	10.0	3.0	5.8	50	58000
NOV 15...	1415	101	214	6.9	6.0	9.0	1.0	12.4	106	33000
DEC 13...	1445	49	350	7.5	<-5.0	1.0	5.9	10.0	69	95000
JAN 13...	0920	189	182	7.2	-5.0	3.0	7.3	12.2	96	58000
MAR 07...	1350	326	160	7.2	5.0	6.0	18	11.0	87	2200
APR 14...	1350	402	173	7.1	11.0	11.0	3.3	11.0	96	4300
MAY 19...	1450	176	233	7.4	18.0	13.5	1.3	10.2	95	110
JUN 15...	1345	117	250	7.4	30.0	21.0	4.7	8.6	95	180
JUL 12...	1200	45	269	7.4	29.0	19.0	5.0	8.2	85	170
AUG 10...	1125	40	321	7.3	21.0	20.0	1.6	7.4	80	230
SEP 02...	1434	44	325	7.2	30.5	19.0	1.1	7.5	79	630

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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 18...	8000	--	--	--	--	--	25	25	--	202
NOV 15...	12000	71	24	22	3.9	47	18	20	11	133
DEC 13...	68000	--	--	--	--	--	24	32	--	201
JAN 13...	14000	52	19	16	2.9	33	17	20	8.7	107
MAR 07...	8600	--	--	--	--	--	16	18	--	98
APR 14...	700	--	--	--	--	--	14	15	--	102
MAY 19...	120	77	23	24	4.1	54	16	6.4	11	174
JUN 15...	140	--	--	--	--	--	18	21	--	153
JUL 12...	59	100	32	32	4.8	68	19	25	12	171
AUG 10...	160	--	--	--	--	--	31	27	--	223
SEP 02...	270	--	--	--	--	--	24	26	--	181

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 18...	50	0.27	21.8	202	2.0	0.09	2.1	2.30	0.4	2.70
NOV 15...	103	0.18	36.3	143	0.82	0.08	0.9	0.64	0.26	0.9
DEC 13...	56	0.27	26.6	207	1.9	0.09	2.0	2.60	0.2	2.80
JAN 13...	85	0.15	54.6	127	0.99	0.01	1.0	0.57	0.03	0.6
MAR 07...	34	0.13	86.3	148	0.97	0.03	1.0	0.21	0.19	0.4
APR 14...	29	0.14	111	113	1.1	0.04	1.1	0.16	0.64	0.8
MAY 19...	94	0.24	82.7	153	1.3	0.07	1.4	0.57	0.63	1.20
JUN 15...	39	0.21	48.3	192	2.1	0.02	2.1	0.31	0.39	0.7
JUL 12...	134	0.23	20.8	170	2.9	0.02	2.9	0.31	0.59	0.9
AUG 10...	58	0.3	24.0	221	3.0	0.03	3.0	0.24	1.1	1.30
SEP 02...	50	0.25	21.5	213	3.7	0.03	3.7	0.33	0.67	1.00

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 18...	4.8	0.79	0.72	2	1	<1	<1	12	6	240
NOV 15...	1.8	0.30	0.26	<1	<1	3	<1	15	6	400
DEC 13...	4.8	0.80	0.72	2	1	1	<1	11	6	300
JAN 13...	1.6	0.38	0.14	1	2	16	5	10	6	480
MAR 07...	1.4	0.20	0.11	2	1	1	<1	10	2	1100
APR 14...	1.9	0.12	0.12	2	2	2	<1	8.00	7	360
MAY 19...	2.6	0.20	0.17	<1	1	5	3	7.00	32	450
JUN 15...	2.8	0.29	0.25	<1	1	10	10	11	3	720
JUL 12...	3.8	0.48	0.46	1	<1	<1	<1	20	19	510
AUG 10...	4.3	0.72	0.69	1	<1	<1	<1	11	7	450
SEP 02...	4.7	1.10	1.00	1	1	3	<1	25	7	530

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	--	8.00	<1	--	13	9	20	10	<0.1
NOV 15...	180	4.00	2	79	6.00	5	60	18	4.2
DEC 13...	--	2.00	8	--	9.00	6	60	30	3.8
JAN 13...	110	5.00	3	69	4.00	5	90	25	4.8
MAR 07...	--	23	3	--	2.00	5	50	30	3.7
APR 14...	--	7.00	6	--	4.00	4	20	20	3.3
MAY 19...	130	1.00	4	100	4.00	3	30	26	2.9
JUN 15...	--	4.00	<1	--	7.00	2	100	20	3.2
JUL 12...	51	7.00	3	120	5.00	1	40	9	3.4
AUG 10...	--	20	2	--	5.00	2	40	20	2.8
SEP 02...	--	15	1	--	4.00	7	50	10	4.5

QUINNIPIAC RIVER BASIN

01196250 HARBOR BROOK AT WESTFIELD ROAD AT MERIDEN, CT

LOCATION.--Lat 41°32'54", Long 72°46'40", New Haven County, Hydrologic Unit 01100004, at second bridge downstream from Baldwin Pond, 10 ft (3 m) downstream from Westfield Road at downstream right wingwall, at Meriden.

DRAINAGE AREA.--8.32 mi² (21.5 km²).

PERIOD OF RECORD.--May 1, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 167.36 ft (51.011 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 989 ft³/s (28.0 m³/s) April 10, 1983, gage height, 7.17 ft (2.185 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) by measurement of flow over dam 0.2 mi (0.3 km) upstream and contracted-opening measurement 0.4 mi (0.6 km) downstream, Jan. 25, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 989 ft³/s (28.0 m³/s) April 10, gage height, 7.17 ft (2.185 m).

DATE: MAR. 18, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	22	043000	22	084500	23	130000	23	171500	23	213000	101
003000	22	044500	23	090000	23	131500	23	173000	24	214500	107
004500	22	050000	22	091500	23	133000	23	174500	25	220000	126
010000	22	051500	23	093000	23	134500	23	180000	26	221500	142
011500	23	053000	23	094500	23	140000	22	181500	28	223000	154
013000	22	054500	23	100000	24	141500	22	183000	30	224500	166
014500	22	060000	23	101500	23	143000	22	184500	34	230000	183
020000	22	061500	23	103000	24	144500	23	190000	38	231500	203
021500	22	063000	23	104500	24	150000	22	191500	42	233000	218
023000	23	064500	23	110000	24	151500	22	193000	48	234500	228
024500	23	070000	23	111500	24	153000	22	194500	53	240000	218
030000	22	071500	23	113000	25	154500	23	200000	56		
031500	22	073000	23	114500	23	160000	23	201500	63		
033000	22	074500	23	120000	23	161500	23	203000	70		
034500	22	080000	23	121500	23	163000	23	204500	75		
040000	22	081500	23	123000	23	164500	23	210000	78		
041500	22	083000	23	124500	23	170000	23	211500	92		

DATE: MAR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	242	043000	476	084500	301	130000	205	171500	162	213000	120
003000	231	044500	521	090000	301	131500	200	173000	160	214500	121
004500	239	050000	471	091500	289	133000	205	174500	156	220000	102
010000	225	051500	431	093000	292	134500	208	180000	153	221500	105
011500	233	053000	423	094500	271	140000	200	181500	147	223000	104
013000	236	054500	378	100000	265	141500	198	183000	145	224500	99
014500	231	060000	352	101500	239	143000	194	184500	135	230000	97
020000	262	061500	338	103000	245	144500	233	190000	130	231500	101
021500	239	063000	341	104500	245	150000	183	191500	137	233000	104
023000	283	064500	345	110000	242	151500	178	193000	125	234500	99
024500	289	070000	301	111500	225	153000	180	194500	130	240000	99
030000	321	071500	304	113000	250	154500	174	200000	132		
031500	334	073000	301	114500	225	160000	172	201500	120		
033000	356	074500	308	120000	236	161500	176	203000	120		
034500	418	080000	321	121500	208	163000	166	204500	123		
040000	485	081500	311	123000	218	164500	170	210000	116		
041500	458	083000	286	124500	210	170000	156	211500	118		

01196250 HARBOR BROOK AT WESTFIELD ROAD AT MERIDEN, CT--Continued

DATE: APR. 10, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	31	043000	30	084500	29	130000	81	171500	903	213000	679
003000	31	044500	30	090000	31	131500	110	173000	959	214500	695
004500	32	050000	29	091500	31	133000	142	174500	945	220000	673
010000	31	051500	30	093000	30	134500	178	180000	981	221500	573
011500	31	053000	29	094500	31	140000	208	181500	973	223000	544
013000	30	054500	29	100000	31	141500	245	183000	988	224500	540
014500	31	060000	30	101500	31	143000	271	184500	966	230000	530
020000	31	061500	31	103000	31	144500	331	190000	945	231500	494
021500	31	063000	30	104500	32	150000	402	191500	924	233000	485
023000	31	064500	30	110000	33	151500	471	193000	981	234500	453
024500	31	070000	29	111500	35	153000	512	194500	800	240000	390
030000	31	071500	30	113000	35	154500	535	200000	800		
031500	30	073000	29	114500	37	160000	619	201500	831		
033000	30	074500	30	120000	38	161500	695	203000	819		
034500	31	080000	30	121500	41	163000	770	204500	758		
040000	30	081500	30	123000	49	164500	897	210000	782		
041500	31	083000	29	124500	61	170000	903	211500	729		

DATE: APR. 11, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	410	043000	210	084500	130	130000	89	171500	68	213000	56
003000	374	044500	185	090000	140	131500	87	173000	60	214500	56
004500	341	050000	191	091500	133	133000	81	174500	63	220000	56
010000	345	051500	176	093000	125	134500	84	180000	62	221500	59
011500	301	053000	183	094500	121	140000	85	181500	61	223000	56
013000	311	054500	176	100000	115	141500	87	183000	60	224500	51
014500	304	060000	172	101500	120	143000	89	184500	62	230000	56
020000	277	061500	174	103000	120	144500	72	190000	61	231500	57
021500	245	063000	166	104500	107	150000	82	191500	64	233000	56
023000	250	064500	166	110000	108	151500	75	193000	59	234500	55
024500	247	070000	154	111500	105	153000	75	194500	59	240000	48
030000	256	071500	137	113000	113	154500	69	200000	57		
031500	233	073000	158	114500	104	160000	74	201500	63		
033000	218	074500	153	120000	98	161500	72	203000	62		
034500	212	080000	153	121500	105	163000	73	204500	62		
040000	210	081500	133	123000	98	164500	67	210000	53		
041500	200	083000	140	124500	89	170000	68	211500	56		

DATE: APR. 16, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	4.6	043000	4.1	084500	4.8	130000	6.8	171500	108	213000	321
003000	4.1	044500	4.3	090000	4.8	131500	8.1	173000	120	214500	321
004500	4.3	050000	4.3	091500	4.8	133000	8.1	174500	128	220000	308
010000	4.1	051500	4.3	093000	5.3	134500	10.0	180000	149	221500	314
011500	3.9	053000	4.1	094500	5.6	140000	12	181500	168	223000	334
013000	3.9	054500	4.3	100000	6.2	141500	15	183000	191	224500	314
014500	4.3	060000	4.3	101500	6.5	143000	17	184500	208	230000	286
020000	4.3	061500	4.3	103000	6.5	144500	20	190000	228	231500	317
021500	4.6	063000	4.6	104500	6.5	150000	26	191500	233	233000	295
023000	4.1	064500	4.6	110000	6.8	151500	29	193000	295	234500	317
024500	4.3	070000	4.6	111500	6.5	153000	35	194500	292	240000	292
030000	3.9	071500	4.1	113000	6.5	154500	42	200000	308		
031500	4.6	073000	4.6	114500	5.9	160000	54	201500	314		
033000	4.6	074500	4.6	120000	6.2	161500	59	203000	321		
034500	4.6	080000	4.8	121500	6.5	163000	69	204500	304		
040000	4.1	081500	4.8	123000	6.2	164500	88	210000	317		
041500	4.6	083000	4.8	124500	6.5	170000	86	211500	321		

01196250 HARBOR BROOK AT WESTFIELD ROAD AT MERIDEN, CT--Continued

DATE: APR. 17, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	304	043000	160	084500	95	130000	60	171500	39	213000	33
003000	301	044500	147	090000	89	131500	59	173000	42	214500	33
004500	301	050000	153	091500	101	133000	58	174500	42	220000	32
010000	295	051500	138	093000	89	134500	57	180000	43	221500	33
011500	280	053000	147	094500	87	140000	52	181500	40	223000	33
013000	274	054500	138	100000	85	141500	52	183000	42	224500	31
014500	236	060000	130	101500	82	143000	48	184500	40	230000	33
020000	225	061500	125	103000	79	144500	53	190000	37	231500	33
021500	228	063000	125	104500	81	150000	50	191500	38	233000	32
023000	203	064500	120	110000	75	151500	45	193000	39	234500	31
024500	198	070000	125	111500	79	153000	46	194500	37	240000	31
030000	183	071500	111	113000	68	154500	47	200000	34		
031500	172	073000	115	114500	65	160000	49	201500	38		
033000	164	074500	120	120000	70	161500	42	203000	33		
034500	162	080000	102	121500	70	163000	44	204500	36		
040000	158	081500	102	123000	67	164500	0	210000	33		
041500	158	083000	101	124500	59	170000	43	211500	34		

DATE: APR. 24, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	5.0	033000	4.6	064500	5.3	100000	28	131500	651	163000	314
003000	5.0	034500	5.3	070000	5.6	101500	35	133000	624	164500	304
004500	5.3	040000	4.8	071500	6.2	103000	42	134500	593	170000	298
010000	5.0	041500	4.8	073000	6.5	104500	57	140000	573	171500	274
011500	5.0	043000	4.6	074500	7.7	110000	70	141500	558	173000	256
013000	5.3	044500	4.8	080000	9.2	111500	98	143000	535	174500	268
014500	5.3	050000	4.8	081500	9.6	113000	133	144500	549	180000	242
020000	4.8	051500	5.0	083000	11	114500	164	150000	485	181500	242
021500	5.0	053000	5.0	084500	12	120000	304	151500	512	183000	198
023000	5.0	054500	4.8	090000	13	121500	444	153000	494		
024500	4.8	060000	5.0	091500	15	123000	526	154500	423		
030000	5.0	061500	5.3	093000	18	124500	598	160000	402		
031500	4.8	063000	5.0	094500	23	130000	624	161500	359		

QUINNIPIAC RIVER BASIN

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413211072475201 RAIN GAGE AT MERIDEN TOWN HALL AT MERIDEN, CT

LOCATION.--Lat 41°32'11, long 72°47'52", New Haven County, Hydrologic Unit 01100004, on roof of Meriden Town Hall in Harbor Brook drainage basin, on East Main Street, 1.3 mi (2.1 km) northeast of gage on Bradley Avenue on Harbor Brook, at Meriden.

PERIOD OF RECORD.--July 21, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals. Records of daily rainfall, since 1950, are available in the files of the City of Meriden Engineering Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.30 in (7.62 mm) May 16, 1981; maximum for 15 minutes, 0.71 in (18.0 mm) May 16, 1981; maximum for 30 minutes, 0.83 in (21.1 mm) May 16, 1981; maximum hourly, 1.10 in (27.9 mm) July 29, 1980; maximum daily, 7.69 in (195 mm) June 5, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 6.58 in (167 mm) Oct. 16, 1955, recorded by City of Meriden at same site.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.25 in (6.35 mm) Sept. 21; maximum for 15 minutes, 0.41 in (10.4 mm) Sept. 21; maximum for 30 minutes, 0.61 in (15.5 mm) Sept. 21; maximum hourly, 0.99 in (25.1 mm) Sept. 21; maximum daily, 3.35 in (85.1 mm) Apr. 10.

DATE: NOV. 13, 1982

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.01	033000	0.17	064500	0.04	100000	0.01	131500	0.000	163000	0.000
003000	0.03	034500	0.04	070000	0.04	101500	0.03	133000	0.000	164500	0.000
004500	0.01	040000	0.06	071500	0.05	103000	0.000	134500	0.000	170000	0.000
010000	0.03	041500	0.06	073000	0.06	104500	0.000	140000	0.000	171500	0.000
011500	0.04	043000	0.06	074500	0.06	110000	0.000	141500	0.000	173000	0.000
013000	0.03	044500	0.07	080000	0.08	111500	0.000	143000	0.000	174500	0.000
014500	0.04	050000	0.05	081500	0.05	113000	0.000	144500	0.000	180000	0.01
020000	0.06	051500	0.04	083000	0.04	114500	0.000	150000	0.000		
021500	0.07	053000	0.08	084500	0.06	120000	0.000	151500	0.000		
023000	0.05	054500	0.08	090000	0.02	121500	0.000	153000	0.000		
024500	0.03	060000	0.04	091500	0.02	123000	0.000	154500	0.000		
030000	0.03	061500	0.03	093000	0.01	124500	0.000	160000	0.000		
031500	0.05	063000	0.02	094500	0.02	130000	0.000	161500	0.000		

DATE: MAR. 18, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
024500	0.01	063000	0.000	101500	0.000	140000	0.000	174500	0.03	213000	0.09
030000	0.000	064500	0.000	103000	0.000	141500	0.000	180000	0.03	214500	0.06
031500	0.000	070000	0.000	104500	0.000	143000	0.000	181500	0.04	220000	0.07
033000	0.000	071500	0.000	110000	0.000	144500	0.01	183000	0.02	221500	0.07
034500	0.000	073000	0.000	111500	0.000	150000	0.000	184500	0.04	223000	0.04
040000	0.000	074500	0.000	113000	0.000	151500	0.000	190000	0.03	224500	0.06
041500	0.000	080000	0.000	114500	0.000	153000	0.000	191500	0.04	230000	0.07
043000	0.000	081500	0.000	120000	0.000	154500	0.000	193000	0.05	231500	0.04
044500	0.000	083000	0.000	121500	0.000	160000	0.000	194500	0.03	233000	0.03
050000	0.000	084500	0.000	123000	0.000	161500	0.01	200000	0.02	234500	0.01
051500	0.000	090000	0.000	124500	0.000	163000	0.000	201500	0.06	240000	0.03
053000	0.000	091500	0.000	130000	0.000	164500	0.000	203000	0.06		
054500	0.000	093000	0.000	131500	0.000	170000	0.01	204500	0.03		
060000	0.000	094500	0.000	133000	0.000	171500	0.01	210000	0.07		
061500	0.000	100000	0.000	134500	0.000	173000	0.01	211500	0.05		

413211072475201 RAIN GAGE AT MERIDEN TOWN HALL AT MERIDEN, CT--Continued

DATE: MAR. 19,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.04	041500	0.03	081500	0.01	121500	0.01	161500	0.000	201500	0.000
003000	0.03	043000	0.04	083000	0.01	123000	0.04	163000	0.000	203000	0.000
004500	0.03	044500	0.06	084500	0.01	124500	0.01	164500	0.000	204500	0.01
010000	0.03	050000	0.000	090000	0.000	130000	0.03	170000	0.000	210000	0.000
011500	0.03	051500	0.000	091500	0.000	131500	0.000	171500	0.000	211500	0.000
013000	0.04	053000	0.000	093000	0.000	133000	0.01	173000	0.000	213000	0.000
014500	0.04	054500	0.000	094500	0.000	134500	0.000	174500	0.000	214500	0.000
020000	0.08	060000	0.01	100000	0.000	140000	0.01	180000	0.000	220000	0.000
021500	0.03	061500	0.04	101500	0.000	141500	0.000	181500	0.000	221500	0.000
023000	0.09	063000	0.01	103000	0.01	143000	0.000	183000	0.000	223000	0.000
024500	0.09	064500	0.02	104500	0.000	144500	0.01	184500	0.000	224500	0.000
030000	0.06	070000	0.000	110000	0.000	150000	0.000	190000	0.000	230000	0.000
031500	0.06	071500	0.01	111500	0.000	151500	0.02	191500	0.000	231500	0.000
033000	0.13	073000	0.02	113000	0.000	153000	0.01	193000	0.000	233000	0.000
034500	0.08	074500	0.04	114500	0.000	154500	0.01	194500	0.000	234500	0.01
040000	0.07	080000	0.03	120000	0.000	160000	0.02	200000	0.000		

DATE: APR. 10,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
063000	0.01	091500	0.000	120000	0.06	144500	0.06	173000	0.09	201500	0.08
064500	0.000	093000	0.01	121500	0.06	150000	0.09	174500	0.12	203000	0.08
070000	0.000	094500	0.000	123000	0.07	151500	0.10	180000	0.09	204500	0.05
071500	0.000	100000	0.02	124500	0.09	153000	0.12	181500	0.08	210000	0.01
073000	0.000	101500	0.03	130000	0.11	154500	0.13	183000	0.08	211500	0.000
074500	0.000	103000	0.000	131500	0.09	160000	0.12	184500	0.12	213000	0.01
080000	0.000	104500	0.01	133000	0.14	161500	0.13	190000	0.03	214500	0.01
081500	0.000	110000	0.000	134500	0.07	163000	0.10	191500	0.08	220000	0.000
083000	0.000	111500	0.000	140000	0.10	164500	0.07	193000	0.09	221500	0.000
084500	0.000	113000	0.01	141500	0.11	170000	0.08	194500	0.08	223000	0.01
090000	0.000	114500	0.04	143000	0.05	171500	0.10	200000	0.06		

DATE: SEP. 21,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
194500	0.05	204500	0.05	214500	0.04	224500	0.03	234500	0.20		
200000	0.09	210000	0.04	220000	0.11	230000	0.03	240000	0.26		
201500	0.03	211500	0.04	221500	0.05	231500	0.12				
203000	0.03	213000	0.03	223000	0.02	233000	0.41				

DATE: SEP. 22,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.09	014500	0.02	031500	0.009	044500	0.000	061500	0.000	074500	0.000
003000	0.08	020000	0.03	033000	0.000	050000	0.000	063000	0.000	080000	0.009
004500	0.09	021500	0.009	034500	0.000	051500	0.000	064500	0.000		
010000	0.009	023000	0.009	040000	0.000	053000	0.000	070000	0.000		
011500	0.02	024500	0.02	041500	0.000	054500	0.000	071500	0.000		
013000	0.03	030000	0.000	043000	0.000	060000	0.000	073000	0.000		

QUINNIPIAC RIVER BASIN

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01196259 HARBOR BROOK AT MERIDEN, CT

LOCATION.--Lat 41°34'54", long 72°49'18", New Haven County, Hydrologic Unit 01100004, at Bradley Avenue on left wingwall, 0.6 mi (1.0 km) upstream from confluence of Quinnipiac River, at Meriden.

DRAINAGE AREA.--11.9 mi² (30.8 km²).

PERIOD OF RECORD.--May 1, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 97.01 ft (29.569 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) June 6, 1982, gage height, 6.40 ft (1.951 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Jan. 25, 1979, gage height, 8.29 ft (2.527 m), by contracted-opening measurement at Coe Avenue bridge 100 ft (30 m) downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s (31.4 m³/s) April 10, gage height, 5.71 ft (1.740 m).

DATE: MAR. 18, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	34	043000	33	084500	34	130000	36	171500	36	213000	160
003000	34	044500	33	090000	34	131500	35	173000	36	214500	176
004500	33	050000	34	091500	34	133000	35	174500	38	220000	188
010000	33	051500	33	093000	34	134500	34	180000	42	221500	208
011500	34	053000	33	094500	34	140000	34	181500	50	223000	217
013000	34	054500	33	100000	34	141500	34	183000	60	224500	229
014500	34	060000	33	101500	34	143000	34	184500	70	230000	232
020000	33	061500	34	103000	35	144500	34	190000	73	231500	260
021500	33	063000	34	104500	34	150000	34	191500	77	233000	273
023000	34	064500	33	110000	34	151500	34	193000	80	234500	263
024500	33	070000	34	111500	34	153000	34	194500	86	240000	255
030000	33	071500	34	113000	34	154500	34	200000	96		
031500	34	073000	34	114500	35	160000	34	201500	104		
033000	33	074500	34	120000	34	161500	34	203000	112		
034500	33	080000	34	121500	35	163000	34	204500	122		
040000	33	081500	34	123000	35	164500	34	210000	131		
041500	33	083000	34	124500	35	170000	34	211500	143		

DATE: MAR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	249	043000	595	084500	352	130000	239	171500	174	213000	130
003000	265	044500	609	090000	341	131500	242	173000	167	214500	130
004500	268	050000	619	091500	315	133000	229	174500	165	220000	127
010000	284	051500	566	093000	296	134500	224	180000	165	221500	127
011500	276	053000	538	094500	293	140000	220	181500	158	223000	123
013000	273	054500	498	100000	276	141500	213	183000	155	224500	123
014500	284	060000	477	101500	271	143000	206	184500	152	230000	122
020000	305	061500	440	103000	268	144500	197	190000	151	231500	121
021500	325	063000	422	104500	252	150000	199	191500	149	233000	118
023000	341	064500	409	110000	237	151500	194	193000	144	234500	117
024500	371	070000	387	111500	244	153000	194	194500	145	240000	117
030000	431	071500	375	113000	244	154500	186	200000	141		
031500	460	073000	359	114500	234	160000	190	201500	139		
033000	473	074500	338	120000	222	161500	192	203000	136		
034500	561	080000	345	121500	222	163000	186	204500	132		
040000	595	081500	367	123000	222	164500	179	210000	134		
041500	604	083000	363	124500	224	170000	176	211500	130		

01196259 HARBOR BROOK AT MERIDEN, CT--Continued

DATE: APR. 10, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	42	043000	40	084500	40	130000	167	171500	975	213000	1050
003000	42	044500	40	090000	40	131500	206	173000	1020	214500	1030
004500	41	050000	40	091500	39	133000	271	174500	1060	220000	1010
010000	42	051500	40	093000	40	134500	296	180000	1050	221500	995
011500	42	053000	40	094500	41	140000	331	181500	1050	223000	975
013000	42	054500	40	100000	42	141500	396	183000	1060	224500	931
014500	41	060000	40	101500	44	143000	440	184500	1080	230000	915
020000	41	061500	40	103000	48	144500	477	190000	1100	231500	879
021500	40	063000	40	104500	52	150000	511	191500	1090	233000	787
023000	41	064500	40	110000	52	151500	600	193000	1080	234500	798
024500	41	070000	40	111500	51	153000	681	194500	1080	240000	781
030000	41	071500	41	113000	50	154500	792	200000	1080		
031500	41	073000	40	114500	52	160000	856	201500	1090		
033000	40	074500	40	120000	59	161500	915	203000	1070		
034500	40	080000	40	121500	77	163000	935	204500	1070		
040000	40	081500	40	123000	103	164500	927	210000	1080		
041500	40	083000	40	124500	134	170000	992	211500	1060		

DATE: MAY 27, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND
001500	88	043000	147	084500	609	130000	469	171500	199	213000	128
003000	85	044500	147	090000	571	131500	422	173000	188	214500	127
004500	84	050000	149	091500	516	133000	392	174500	197	220000	123
010000	54	051500	152	093000	494	134500	379	180000	181	221500	120
011500	83	053000	147	094500	494	140000	352	181500	174	223000	118
013000	84	054500	144	100000	511	141500	318	183000	172	224500	116
014500	86	060000	144	101500	538	143000	299	184500	169	230000	116
020000	86	061500	145	103000	585	144500	290	190000	165	231500	113
021500	86	063000	163	104500	529	150000	279	191500	160	233000	112
023000	85	064500	188	110000	547	151500	263	193000	155	234500	108
024500	86	070000	215	111500	571	153000	249	194500	155	240000	108
030000	88	071500	217	113000	600	154500	239	200000	151		
031500	103	073000	197	114500	585	160000	237	201500	147		
033000	122	074500	242	120000	538	161500	222	203000	141		
034500	135	080000	348	121500	520	163000	215	204500	139		
040000	144	081500	525	123000	498	164500	210	210000	135		
041500	148	083000	571	124500	473	170000	203	211500	132		

DATE: MAY 30, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CURIC FEET PER SECOND
001500	151	043000	160	084500	237	130000	125	171500	97	213000	89
003000	147	044500	222	090000	229	131500	125	173000	98	214500	90
004500	128	050000	392	091500	217	133000	118	174500	98	220000	88
010000	109	051500	452	093000	213	134500	118	180000	95	221500	89
011500	105	053000	400	094500	201	140000	116	181500	96	223000	89
013000	101	054500	355	100000	183	141500	114	183000	95	224500	89
014500	98	060000	404	101500	176	143000	114	184500	93	230000	89
020000	98	061500	392	103000	169	144500	112	190000	92	231500	89
021500	93	063000	318	104500	165	150000	108	191500	91	233000	88
023000	89	064500	318	110000	163	151500	106	193000	91	234500	89
024500	88	070000	335	111500	155	153000	106	194500	90	240000	87
030000	86	071500	335	113000	148	154500	105	200000	89		
031500	84	073000	355	114500	143	160000	98	201500	88		
033000	90	074500	299	120000	139	161500	104	203000	88		
034500	107	080000	290	121500	137	163000	102	204500	88		
040000	134	081500	271	123000	130	164500	100	210000	87		
041500	145	083000	255	124500	131	170000	99	211500	88		

QUINNIPJAC RIVER BASIN

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01196259 HARBOR BROOK AT MERIDEN, CT--Continued

DATE: SEP. 21, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	29	043000	29	084500	30	130000	30	171500	30	213000	75
003000	29	044500	29	090000	30	131500	30	173000	30	214500	73
004500	29	050000	29	091500	30	133000	30	174500	30	220000	77
010000	29	051500	29	093000	30	134500	30	180000	30	221500	84
011500	29	053000	29	094500	30	140000	30	181500	30	223000	101
013000	29	054500	29	100000	30	141500	30	183000	30	224500	103
014500	29	060000	29	101500	30	143000	30	184500	30	230000	93
020000	29	061500	29	103000	30	144500	30	190000	30	231500	89
021500	29	063000	29	104500	30	150000	30	191500	30	233000	113
023000	29	064500	29	110000	30	151500	30	193000	30	234500	229
024500	29	070000	30	111500	30	153000	30	194500	30	240000	345
030000	29	071500	30	113000	30	154500	30	200000	31		
031500	29	073000	30	114500	30	160000	30	201500	33		
033000	29	074500	30	120000	30	161500	30	203000	37		
034500	29	080000	30	121500	30	163000	30	204500	53		
040000	29	081500	30	123000	30	164500	30	210000	68		
041500	29	083000	30	124500	30	170000	30	211500	72		

DATE: SEP. 22, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	404	043000	91	084500	52	130000	40	171500	33	213000	29
003000	409	044500	87	090000	52	131500	40	173000	32	214500	29
004500	328	050000	83	091500	51	133000	40	174500	32	220000	29
010000	268	051500	80	093000	50	134500	39	180000	32	221500	29
011500	206	053000	77	094500	49	140000	38	181500	32	223000	28
013000	172	054500	74	100000	48	141500	38	183000	31	224500	28
014500	167	060000	71	101500	48	143000	38	184500	31	230000	27
020000	167	061500	68	103000	46	144500	38	190000	30	231500	27
021500	167	063000	66	104500	46	150000	37	191500	30	233000	27
023000	162	064500	64	110000	45	151500	36	193000	30	234500	27
024500	149	070000	62	111500	44	153000	36	194500	30	240000	27
030000	136	071500	60	113000	44	154500	36	200000	30		
031500	123	073000	59	114500	44	160000	35	201500	30		
033000	114	074500	57	120000	43	161500	35	203000	29		
034500	107	080000	56	121500	42	163000	34	204500	29		
040000	101	081500	54	123000	42	164500	34	210000	29		
041500	95	083000	54	124500	41	170000	34	211500	29		

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.--115 mi² (298 km²) rev.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and timber control. Datum of gage is 19.24 ft (5.864 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 27, 1965, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, (see p.190), and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merrimere and Elmere 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).--53 years, 212 ft³/s (6.004 m³/s), 25.03 in/yr (636 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,200 ft³/s (232 m³/s) June 6, 1982, gage height, 14.02 ft (4.273 m); 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. 11	0700	1300 36.8	6.78 2.067	Mar. 28	2330	1310 37.1	6.80 2.073
Feb. 3	Time	about	-- --	Apr. 11	0030	*3870 110	*11.11 3.386
	unknown	2200 62		17	1500	2910 82.4	9.84 2.999
Mar. 9	0530	1220 34.6	6.58 2.006	24	1830	3230 91.5	10.30 3.139
12	0500	1080 30.6	6.23 1.899	May 27	1530	1510 42.8	7.30 2.225
20	0530	2700 76.5	9.54 2.908	30	1000	1400 39.6	7.02 2.140

Minimum discharge, 51 ft³/s (1.44 m³/s) Sept. 21, minimum gage height, 1.28 ft (0.390 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	65	110	95	248	260	371	492	549	188	96	79
2	65	65	94	91	234	598	330	452	423	183	97	73
3	62	55	89	91	1800	530	737	425	359	182	93	69
4	62	55	88	85	1100	384	1130	471	687	167	88	66
5	64	120	85	83	500	367	658	462	655	182	88	64
6	56	110	89	157	400	329	462	398	415	220	88	66
7	60	80	86	156	350	390	392	372	348	174	90	67
8	60	65	84	125	300	559	446	348	323	146	89	60
9	70	70	86	110	278	1130	626	339	299	141	87	57
10	80	60	78	103	249	842	1410	329	276	134	81	58
11	60	55	72	842	232	642	3360	314	252	130	100	56
12	65	55	72	650	205	970	2040	299	232	126	258	55
13	60	350	72	282	238	769	1020	280	218	129	218	64
14	80	250	74	196	224	499	715	269	206	120	140	63
15	70	159	81	178	216	399	606	267	193	106	108	58
16	65	130	242	165	190	342	958	287	277	112	99	55
17	60	111	255	160	180	312	2790	317	244	112	92	55
18	60	101	168	150	170	338	1890	318	200	92	108	54
19	60	94	124	145	180	1850	1620	311	188	91	104	55
20	65	90	112	140	247	2310	1890	283	183	102	92	53
21	80	86	109	135	236	1380	1310	269	179	102	80	57
22	80	84	104	110	255	1400	857	259	174	104	76	269
23	70	83	100	198	277	879	674	324	167	99	77	134
24	60	81	113	423	298	568	1690	361	162	153	74	96
25	75	77	122	378	283	469	2540	329	154	156	68	84
26	200	72	131	285	262	399	1620	295	149	122	67	79
27	150	75	123	226	233	367	997	923	180	106	65	77
28	100	76	108	189	236	1060	760	783	403	100	146	76
29	90	163	106	175	---	983	634	446	256	98	152	74
30	80	143	99	171	---	542	546	964	184	101	102	112
31	70	---	96	234	---	421	---	861	---	112	90	---
TOTAL	2350	3080	3372	6528	9621	22288	35079	12847	8535	4090	3213	2285
MEAN	75.8	103	109	211	344	719	1169	414	285	132	104	76.2
MAX	200	350	255	842	1800	2310	3360	964	687	220	258	269
MIN	56	55	72	83	170	260	330	259	149	91	65	53
(†)	-9.2	+0.3	+0.5	+16.9	+9.0	+14.5	+3.7	+2.6	-11.1	-7.9	-5.4	-7.6
MEAN‡	66.6	103	110	228	353	734	1173	417	274	124	98.6	68.6
CFSM‡	0.58	0.90	0.96	1.98	3.07	6.38	10.20	3.63	2.38	1.08	0.86	0.60
IN ‡	0.67	1.00	1.11	2.28	3.20	7.36	11.38	4.18	2.66	1.24	0.99	0.67

CAL YR 1982 TOTAL 89605 MEAN 245 MAX 7210 MIN 55 MEAN‡ 248 CFSM‡ 2.16 IN‡ 31.71

WTR YR 1983 TOTAL 113288 MEAN 310 MAX 3360 MIN 53 MEAN‡ 310 CFSM‡ 2.70 IN‡ 36.74

† Change in contents in Wolcott and Broad Brook Reservoirs, diversion from Wolcott Reservoir, and diversion into the basin from Merrimere and Elmere 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

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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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 18...	1205	60	332	7.8	12.0	11.5	5.0	11.1	99	2300
NOV 15...	1315	173	216	6.5	8.0	10.5	2.0	10.9	96	9000
DEC 13...	1335	72	370	7.7	<-5.0	1.5	12	12.9	89	2700
JAN 13...	1030	283	200	7.4	-4.0	4.0	12	12.8	96	18000
MAR 07...	1300	426	220	7.3	4.0	6.0	11	12.6	100	1500
APR 14...	1306	708	189	7.1	10.0	11.0	12	10.8	95	11000
MAY 19...	1400	328	252	7.5	18.0	14.0	1.0	11.1	105	330
JUN 15...	1240	174	285	7.3	33.5	22.5	4.9	8.5	97	380
JUL 12...	1345	127	300	7.5	31.0	24.0	1.3	8.2	94	240
AUG 10...	1230	79	330	7.7	22.0	23.0	12	8.8	100	900
SEP 02...	1347	90	315	7.2	29.0	23.0	1.4	9.2	104	650

DATE	STREP- TOCOC- CI FECAL KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 18...	130	--	--	--	--	--	29	29	--	233
NOV 15...	4900	71	24	22	3.9	47	18	20	9.7	132
DEC 13...	640	--	--	--	--	--	28	30	--	223
JAN 13...	11000	59	21	18	3.4	38	19	21	8.2	125
MAR 07...	99000	--	--	--	--	--	21	23	--	125
APR 14...	2100	--	--	--	--	--	14	17	--	136
MAY 19...	200	85	25	26	4.9	60	18	--	11	189
JUN 15...	120	--	--	--	--	--	21	25	--	200
JUL 12...	270	100	27	31	5.7	74	22	28	12	195
AUG 10...	14000	--	--	--	--	--	27	30	--	230
SEP 02...	1300	--	--	--	--	--	23	27	--	170

QUINNIPIAC RIVER BASIN

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 18...	58	0.32	37.7	232	2.9	0.12	3.0	0.32	0.00	0.1
NOV 15...	102	0.18	61.7	152	1.5	0.05	1.5	0.39	0.71	1.10
DEC 13...	58	0.3	43.4	225	3.8	0.04	3.8	0.96	0.94	1.90
JAN 13...	93	0.17	95.5	132	1.2	0.02	1.2	0.43	0.17	0.6
MAR 07...	44	0.17	144	175	1.5	0.03	1.5	0.17	0.33	0.5
APR 14...	31	0.18	260	155	1.2	0.03	1.2	0.27	0.33	0.6
MAY 19...	96	0.26	167	192	1.5	0.06	1.6	0.42	0.68	1.10
JUN 15...	46	0.27	94.0	191	2.0	0.17	2.2	0.38	0.32	0.7
JUL 12...	143	0.27	66.9	196	2.6	0.08	2.7	0.17	0.53	0.7
AUG 10...	57	0.31	49.1	230	3.4	0.08	3.5	0.14	1.6	1.70
SEP 02...	50	0.23	41.3	206	3.8	0.08	3.9	0.16	0.84	1.00

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 18...	3.1	0.50	0.37	2	1	2	<1	20	9	510
NOV 15...	2.6	0.36	0.21	<1	<1	2	<1	33	10	810
DEC 13...	5.7	0.68	0.51	1	1	<1	<1	14	6	570
JAN 13...	1.8	0.28	0.12	2	<1	18	<1	22	11	800
MAR 07...	2.0	0.26	0.11	2	<1	<1	4	27	7	1000
APR 14...	1.8	0.15	0.06	1	1	1	<1	46	7	1100
MAY 19...	2.7	0.20	0.15	1	1	8	<1	26	15	700
JUN 15...	2.9	0.26	0.22	1	1	10	<1	20	6	760
JUL 12...	3.4	0.50	0.41	1	1	20	<1	22	7	690
AUG 10...	5.2	0.68	0.54	2	1	2	<1	67	30	800
SEP 02...	4.9	0.82	0.46	1	1	8	<1	23	8	870

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	--	9.00	1	--	19	8	20	20	5.2
NOV 15...	240	11	2	120	10	6	60	14	5.3
DEC 13...	--	19	9	--	8.00	8	40	20	3.6
JAN 13...	120	8.00	3	97	5.00	6	60	23	3.9
MAR 07...	--	18	3	--	3.00	3	50	20	4.5
APR 14...	--	8.00	7	--	9.00	4	50	20	3.2
MAY 19...	120	4.00	4	150	5.00	3	30	14	4.4
JUN 15...	--	5.00	<1	--	10	5	40	20	3.5
JUL 12...	50	11	3	160	15	3	30	7	4.5
AUG 10...	--	17	6	--	10	5	40	20	3.4
SEP 02...	--	9.00	1	--	14	15	40	<10	5.2

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.

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECA, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECA, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L CaCO3)
OCT 18...	1050	400	7.6	11.0	11.0	4.0	6.9	61	82000	12000	--	--
NOV 15...	1230	245	7.0	11.0	10.5	2.0	11.5	102	19000	6500	77	25
DEC 13...	1230	390	7.6	<-5.0	1.0	7.8	10.3	71	32000	12000	--	--
JAN 13...	1220	220	7.2	-3.0	4.0	13	11.8	89	14000	7900	62	22
MAR 07...	1220	220	7.3	5.0	7.0	11	11.4	93	16000	8000	--	--
APR 14...	1200	178	7.1	9.0	9.0	10	10.6	91	19000	4000	--	--
MAY 19...	1315	259	7.2	18.0	13.5	1.3	8.8	81	520	250	81	22
JUN 15...	1105	305	7.2	27.0	22.0	6.5	5.1	57	6500	1000	--	--
JUL 12...	1310	355	7.2	30.5	23.0	1.0	5.3	60	3100	120	110	29
AUG 10...	1400	385	7.3	23.0	24.0	1.9	7.5	87	2200	20000	--	--
SEP 02...	1225	360	7.2	27.0	22.0	1.9	3.8	43	15000	4900	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-F1)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT 18...	--	--	--	31	32	--	262	63	0.36	271	3.0	0.15
NOV 15...	24	4.2	52	20	23	9.6	153	112	0.21	168	1.8	0.05
DEC 13...	--	--	--	29	34	--	233	63	0.32	243	3.1	0.05
JAN 13...	19	3.6	40	18	17	8.5	146	90	0.2	163	1.3	0.02
MAR 07...	--	--	--	21	24	--	117	45	0.16	183	1.5	0.05
APR 14...	--	--	--	14	17	--	133	31	0.18	150	1.3	0.04
MAY 19...	25	4.4	59	18	19	9.2	157	111	0.21	175	1.7	0.06
JUN 15...	--	--	--	22	27	--	202	49	0.27	300	2.6	0.16
JUL 12...	33	6.2	79	25	29	13	209	154	0.28	215	2.9	0.12
AUG 10...	--	--	--	35	36	--	228	71	0.31	262	3.4	0.16
SEP 02...	--	--	--	28	31	--	218	59	0.3	274	3.1	0.14

QUINNIPIAC RIVER BASIN

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01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 18...	3.2	7.70	0.00	--	3.2	0.92	0.81	2	1	<1	<1	19
NOV 15...	1.8	0.65	2.4	3.00	4.8	0.42	0.32	<1	<1	2	<1	25
DEC 13...	3.2	3.00	1.3	4.30	7.5	1.10	0.88	3	1	<1	<1	17
JAN 13...	1.3	0.54	1.5	2.00	3.3	0.26	0.26	2	3	22	1	21
MAR 07...	1.6	0.42	0.88	1.30	2.9	0.33	0.15	2	<1	4	<1	27
APR 14...	1.3	0.31	0.99	1.30	2.6	0.15	0.07	2	1	2	1	36
MAY 19...	1.8	0.55	2.0	2.50	4.3	0.28	0.18	2	1	5	<1	27
JUN 15...	2.8	0.61	3.2	3.80	6.6	0.32	0.22	1	1	19	<1	52
JUL 12...	3.0	0.67	3.0	3.70	6.7	0.59	0.46	3	<1	<1	<1	17
AUG 10...	3.6	1.20	3.6	4.80	8.4	0.96	0.80	2	1	9	<1	20
SEP 02...	3.2	1.00	2.8	3.80	7.0	0.68	0.60	2	1	12	<1	34

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	10	580	--	10	2	--	10	19	20	20	13
NOV 15...	12	550	190	9.00	3	120	14	8	40	11	6.6
DEC 13...	9	490	--	17	9	--	13	8	30	20	6.3
JAN 13...	9	780	120	8.00	3	100	10	12	40	12	6.9
MAR 07...	5	1200	--	25	5	--	9.00	8	70	20	5.8
APR 14...	7	1000	--	8.00	8	--	13	7	40	20	4.5
MAY 19...	8	780	95	4.00	2	120	11	7	30	3.00	5.1
JUN 15...	5	1900	--	13	<1	--	17	7	60	20	8.6
JUL 12...	10	590	32	20	5	220	25	8	30	7.00	7.2
AUG 10...	8	630	--	10	1	--	110	56	30	20	5.9
SEP 02...	7	1200	--	13	<1	--	33	23	70	10	11

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.

MONTHEND USABLE CONTENTS AT 2400, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	01195800 WOLCOTT RESERVOIR	01196225 BROAD BROOK RESERVOIR
Sept. 30, 1982.....	11.1	116
Oct. 31.....	5.2	90.9
Nov. 30.....	0.4	84.2
Dec. 31.....	4.7	84.2
Jan. 31, 1983.....	15.5	114
Feb. 28.....	20.2	122
Mar. 31.....	22.7	147
Apr. 30.....	22.7	147
May 31.....	22.7	147
June 30.....	9.3	122
July 31.....	0	114
Aug. 31.....	0	110
Sept. 30.....	0	97.6

MILL RIVER BASIN

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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 current year.

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.

AVERAGE DISCHARGE.--5 years, 56.8 ft³/s (1.608 m³/s), 31.47 in (799 mm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,580 ft³/s (158 m³/s) June 6, 1982, by contracted-ggpening measurement 0.7 mi (1.1 km) downstream, gage height, 9.53 ft (2.905 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 29, 1981, gage height, 1.06 ft (0.323 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Apr. 10, gage height, 5.85 ft (1.783 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 7, gage height, 1.09 ft (0.332 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	7.3	12	9.2	59	66	126	129	129	27	8.5	13
2	6.8	6.8	10	8.5	57	150	113	119	102	26	8.5	10
3	6.8	6.0	8.5	8.5	500	126	260	110	89	30	7.8	8.5
4	6.4	5.7	7.8	8.0	277	97	340	119	205	26	7.3	7.3
5	6.4	14	7.3	8.0	139	102	195	108	170	27	7.3	6.8
6	6.4	12	7.8	24	105	94	163	97	113	41	7.3	6.8
7	7.3	7.8	6.5	26	85	143	143	89	99	26	8.5	6.4
8	6.4	6.8	5.4	22	70	167	157	83	86	20	7.3	5.7
9	10	7.3	5.0	17	60	298	219	89	71	19	6.8	5.4
10	7.8	5.7	4.5	16	55	185	711	78	68	18	7.8	5.1
11	6.8	6.0	4.4	185	50	160	978	71	64	17	13	4.8
12	7.3	6.4	4.3	164	45	215	394	66	59	16	41	4.3
13	6.8	51	4.3	57	42	160	264	62	55	15	35	4.5
14	9.2	37	4.3	35	40	126	201	57	51	14	19	4.5
15	6.8	22	5.5	23	40	116	174	57	49	13	15	4.5
16	6.4	15	47	22	45	108	354	66	51	13	13	4.5
17	6.0	11	59	20	64	102	721	86	51	12	11	4.5
18	6.0	9.2	24	19	81	119	345	64	45	11	14	4.5
19	6.4	9.2	15	19	81	628	377	53	41	11	13	4.3
20	6.4	7.8	14	18	71	377	369	62	39	12	10	4.1
21	8.5	7.3	13	17	66	290	241	64	35	14	7.8	4.5
22	8.5	6.8	11	17	71	294	195	55	32	13	7.8	32
23	6.4	8.5	11	37	71	195	167	97	30	10	7.8	10
24	6.4	6.8	13	132	78	163	678	78	27	19	7.3	6.4
25	8.5	6.0	15	97	78	146	597	76	24	19	6.8	5.7
26	23	6.4	18	68	76	129	321	57	23	13	6.4	5.1
27	14	6.4	14	53	66	123	229	170	34	11	6.4	5.1
28	9.2	6.0	13	43	62	298	185	132	76	10	59	4.8
29	9.2	24	12	41	---	205	160	89	68	9.2	57	4.5
30	7.3	19	11	39	---	157	143	229	37	8.5	24	8.5
31	7.3	---	10	59	---	136	---	181	---	8.5	17	---
TOTAL	249.2	351.2	397.6	1312.2	2534	5675	9520	2893	2023	529.2	468.4	206.1
MEAN	8.04	11.7	12.8	42.3	90.5	183	317	93.3	67.4	17.1	15.1	6.87
MAX	23	51	59	185	500	628	978	229	205	41	59	32
MIN	6.0	5.7	4.3	8.0	40	66	113	53	23	8.5	6.4	4.1
CFSM	.33	.48	.52	1.73	3.69	7.47	12.9	3.81	2.75	.70	.62	.28
IN.	.38	.53	.60	1.99	3.85	8.62	14.45	4.39	3.07	.80	.71	.31
CAL YR 1982	TOTAL	26738.1	MEAN	73.3	MAX	4300	MIN	4.3	CFSM	2.99	IN	40.60
WTR YR 1983	TOTAL	26158.9	MEAN	71.7	MAX	978	MIN	4.1	CFSM	2.93	IN	39.72

LONG ISLAND SOUND

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 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	SALIN- ITY (PPT)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV 18...	1410	4.0	41400	7.9	27.0	10.0	11.5	1.0	10.8	96	24
JAN 13...	1330	4.0	42000	8.0	27.0	-3.0	4.0	4.2	10.8	81	220
MAY 23...	1030	4.0	35600	8.0	22.0	20.0	14.0	1.6	10.6	115	54
JUL 11...	1030	4.0	38000	7.7	25.0	23.0	18.0	0.2	6.1	72	K9

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 LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 18...	35	3900	3800	99	880	94	1900	15000	1.3	27900	17900
JAN 13...	110	4500	4400	160	1000	95	2100	15000	1.0	27400	18300
MAY 23...	44	4200	4100	270	850	90	1600	--	1.1	26000	2780
JUL 11...	26	4500	4400	270	930	95	1900	1500	1.1	28000	4660

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
NOV 18...	37.9	29400	0.08	0.02	<0.1	0.28	0.42	0.7	0.8	0.13
JAN 13...	37.3	29200	0.09	0.01	0.1	0.17	0.00	0.1	0.2	0.13
MAY 23...	35.4	27400	0.09	0.01	<0.1	0.15	0.55	0.7	0.8	0.13
JUL 11...	38.1	29500	0.09	<0.01	<0.1	0.08	0.62	0.7	0.8	0.12

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS Cd)	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)	NICKEL, DIS- SOLVED (UG/L AS Ni)	ZINC, DIS- SOLVED (UG/L AS Zn)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 18...	0.11	<1	<1	7	100	2	60	3	30	2.5
JAN 13...	0.13	3	6	2	80	1	90	3	30	2.5
MAY 23...	0.09	2	2	5	110	1	50	1	20	2.2
JUL 11...	0.09	2	<1	6	160	7	90	7	20	3.3

HOUSATONIC RIVER BASIN

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01198550 HOUSATONIC RIVER NEAR CANAAN, CT

LOCATION.--Lat 42°00'17", long 73°21'27", Litchfield County, Hydrologic Unit 01100005, at bridge on U.S. Highway 44, 2 mi (3 km) southwest of Canaan, 2.5 mi (4.0 km) downstream from Blackberry River, 2.8 mi (4.5 km) upstream from Hollenbeck River, and 3.7 mi (6.0 km) upstream from Falls Village Dam.

DRAINAGE AREA.--586 mi² (1,518 km²).

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

REMARKS.--Discharges shown for this station are computed by determining the discharge for station 01199000, 4.2 mi (6.7 km) downstream, and adjusting its discharge by multiplying by a factor of 0.92, which is the ratio of the two stations' drainage area.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
19...	1040	1070	270	8.2	15.0	10.0	4.0	11.0	96	110	58
NOV											
19...	1315	176	268	8.2	13.0	8.0	2.0	14.7	120	480	920
DEC											
14...	1125	202	350	8.0	-2.0	0.5	4.6	13.5	92	130	44
JAN											
17...	1200	506	250	7.8	-3.0	0.5	2.6	14.0	99	640	400
MAR											
01...	1130	741	296	7.9	7.0	2.0	2.2	14.1	104	60	1000
APR											
11...	1340	3770	160	7.5	10.0	7.0	4.5	12.1	100	780	8000
MAY											
17...	1105	1930	236	7.8	8.0	10.5	0.4	11.0	99	880	3000
JUN											
14...	1120	1110	262	7.8	30.5	20.5	1.8	9.0	100	92	100
JUL											
13...	1120	552	270	8.7	25.0	23.0	0.7	13.1	152	110	760
AUG											
09...	1040	105	320	8.0	24.0	25.0	1.1	8.6	102	170	4100
SEP											
01...	1040	127	360	8.0	23.0	22.0	1.7	7.6	78	70	250

DATE	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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT											
19...	--	--	--	--	--	15	15	--	160	30	0.22
NOV											
19...	120	19	29	11	99	15	14	3.7	151	132	0.21
DEC											
14...	--	--	--	--	--	17	19	--	197	36	0.27
JAN											
17...	97	13	25	8.4	84	14	12	3.9	125	114	0.17
MAR											
01...	--	--	--	--	--	18	18	--	155	36	0.21
APR											
11...	--	--	--	--	--	8.0	8.3	--	93	16	0.13
MAY											
17...	99	10	26	8.2	89	10	11	2.9	129	112	0.18
JUN											
14...	--	--	--	--	--	11	13	--	161	24	0.22
JUL											
13...	130	14	32	12	115	12	16	2.1	174	143	0.24
AUG											
09...	--	--	--	--	--	16	20	--	176	36	0.24
SEP											
01...	--	--	--	--	--	13	20	--	195	33	0.27

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	462	161	0.59	0.01	0.6	0.02	1.8	1.80	2.4	0.09
NOV 19...	71.8	159	0.49	<0.01	0.5	0.03	0.17	0.2	0.7	0.07
DEC 14...	107	201	1.1	0.01	1.1	0.08	1.1	1.20	2.3	0.14
JAN 17...	171	132	0.49	<0.01	0.5	0.05	0.25	0.3	0.8	0.08
MAR 01...	310	194	0.59	<0.01	0.6	0.06	0.24	0.3	0.9	0.07
APR 11...	947	--	0.29	0.01	0.3	0.07	0.43	0.5	0.8	0.12
MAY 17...	672	162	0.39	0.01	0.4	0.05	0.25	0.3	0.7	0.06
JUN 14...	483	164	0.49	0.01	0.5	0.03	0.37	0.4	0.9	0.08
JUL 13...	259	174	0.18	0.02	0.2	<0.01	0.79	0.8	1.0	0.07
AUG 09...	49.9	208	0.58	0.02	0.6	0.02	1.3	1.30	1.9	0.11
SEP 01...	66.9	207	0.58	0.02	0.6	0.06	1.1	1.20	1.8	0.11

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM, DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	0.07	1	<1	4	--	<1	--	2	<10	3.8
NOV 19...	0.05	<1	<1	4	110	2	45	4	<4.00	4.3
DEC 14...	0.09	1	--	6	--	5	--	1	<10	2.8
JAN 17...	0.04	1	5	1	59	2	41	1	<4.00	3.4
MAR 01...	0.04	<1	2	1	--	2	--	2	<10	2.9
APR 11...	<0.01	2	2	6	--	3	--	2	10	4.8
MAY 17...	0.05	2	<1	3	51	2	18	2	3.00	2.9
JUN 14...	0.05	<1	<1	1	--	<1	--	1	<10	3.4
JUL 13...	0.04	<1	<1	6	24	3	20	2	<3.00	5.5
AUG 09...	0.08	<1	<1	4	--	2	--	1	10	4.1
SEP 01...	0.05	1	<1	6	--	<1	--	1	10	5.3

HOUSATONIC RIVER BASIN

195

01198990 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CT

LOCATION.--Lat 41°57'45", long 73°22'18", Litchfield County, Hydrologic Unit 01100005, on Housatonic River at Great Falls, 0.4 mi (0.6 km) upstream from hydroelectric plant of Hartford Electric Light Company and gaging station at Falls Village, 0.9 mi (1.4 km) downstream from Hollenbeck River and 2.0 mi (3.2 km) upstream from Salmon Creek.

DRAINAGE AREA.--633 mi² (1,640 km²).

PERIOD OF RECORD.--Water years 1921, 1956 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to current year.

REMARKS.--Several days have no records because of missing readings.

COOPERATION.--Records were furnished by the Hartford Electric Light Company.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 27.0°C June 20, 1957, July 21-22, 1980; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 24.5°C July 5; minimum daily, 0.0°C on many days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	9.0	3.5	3.0	---		4.0	13.5	15.0	21.0	23.0	22.0
2	16.0	10.0	5.0	2.0	---		4.0	14.5	15.0	22.0	24.0	22.0
3	16.0	11.0	5.0	1.5	---		4.5	14.5	15.0	23.0	24.0	22.0
4	16.0	13.0	9.0	.5	---		5.0	15.0	16.0	24.0	24.0	22.0
5	16.0	14.0	9.0	.5	---		5.0	14.0	16.0	24.5	24.0	22.5
6	16.0	12.0	9.0	1.0	---		5.5	13.0	17.0	23.0	24.0	23.0
7	16.0	10.0	9.0	.5	---		7.0	13.5	18.0	22.0	24.0	23.0
8	16.0	8.0	8.5	.5	---		8.0	14.0	18.0	20.0	24.0	23.0
9	16.0	8.0	7.0	1.0	---		8.0	14.0	18.0	20.5	24.0	23.0
10	15.0	8.0	4.0	1.0	---		8.0	11.5	17.0	21.0	24.0	23.0
11	13.0	8.0	2.0	1.5	---		8.0	10.5	18.0	21.0	23.5	23.0
12	12.0	8.0	1.0	2.0	---		7.0	10.0	19.0	21.0	21.0	23.0
13	13.0	7.5	.0	1.0	---		7.0	9.5	19.0	23.0	20.0	22.0
14	13.0	6.0	.0	1.0	---		8.0	9.0	21.0	23.0	19.5	21.0
15	13.0	6.0	.0	.5	---		9.0	9.0	21.0	23.0	19.0	20.0
16	12.0	6.0	1.0	.0	---		8.0	8.5	21.0	23.0	19.0	19.0
17	11.0	5.0	.5	---	.0		6.0	8.5	23.0	24.0	19.0	18.0
18	10.0	4.0	.5	---	.0		5.0	11.0	23.0	24.0	19.0	18.0
19	9.0	5.0	.0	---	.0		5.0	12.0	23.0	24.0	20.0	17.0
20	9.5	5.0	.0	---	.0		4.0	12.0	23.0	24.0	20.0	18.5
21	10.0	6.0	.0	---	.0		4.0	13.0	22.0	24.0	21.0	19.0
22	9.0	6.0	.0	---	.0		4.5	14.0	22.0	24.0	22.0	19.0
23	9.0	7.0	.5	---	.0		5.5	15.0	22.0	24.0	22.0	18.0
24	8.0	8.0	1.0	---	.0		7.0	17.0	22.0	23.0	22.0	17.0
25	8.0	6.0	2.0	---	.0		8.5	17.0	21.0	23.0	23.0	16.0
26	7.0	4.0	3.0	---	.0		7.0	16.0	21.0	22.0	23.0	15.0
27	7.0	3.0	3.5	---	.0		7.0	16.0	20.0	21.0	23.0	15.0
28	7.0	2.0	4.0	---	.0		9.0	16.0	20.0	22.0	24.0	15.0
29	7.0	2.0	5.0	---	---		12.0	16.0	19.0	23.0	24.0	15.0
30	7.0	4.0	5.0	---	---		12.5	15.0	19.0	23.0	24.0	15.0
31	8.0	---	5.0	---	---		---	15.0	---	23.0	24.0	---
MEAN	11.5	7.0	3.5	1.0	.0		7.0	13.0	19.5	22.5	22.5	19.5
WTR YR 1983	MEAN	13.0		MAX	24.5	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).

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.--71 years, 1,087 ft³/s (30.78 m³/s), 23.26 in/yr (591 mm/yr).

REMARKS.--Records good. Low flow completely regulated by power plant of Hartford Electric Light Company. Water quality data was collected between 1974-1980. High flow is regulated by flood-control reservoirs from 20.5 mi² (53.1 km²) in the Blackberry River basin, but does not affect monthly runoff appreciably.

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)
Feb. 4	0900	4,590 130	6.37 1.942	Apr. 22	0715	*7,600 215	*8.66 2.640
Mar. 22	1500	4,440 126	6.25 1.905	26	1415	7,520 213	8.60 2.621
Apr. 11	1915	4,230 120	6.09 1.856				

Minimum daily discharge, 114 ft³/s (3.23 m³/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	238	592	548	953	802	1730	3160	2430	793	270	241
2	232	235	602	477	886	1190	1560	2910	2260	643	275	270
3	293	321	546	537	1780	2100	1550	2900	1960	598	275	200
4	247	384	507	476	3800	1980	1890	2890	2300	501	350	135
5	247	367	445	369	2920	1750	1910	2750	2960	530	565	141
6	202	715	379	569	2140	1700	1800	2440	2560	1110	502	299
7	214	598	361	673	1700	1750	1660	2110	2440	1250	444	204
8	370	485	320	729	1520	2040	1570	1900	2400	947	261	170
9	592	389	290	535	1300	2430	1730	1830	2070	696	114	172
10	532	378	250	599	1010	2480	1970	1840	1710	523	179	141
11	426	304	240	1220	1000	2660	3790	1750	1390	391	544	143
12	494	408	240	1790	976	2760	4010	1560	1250	365	217	143
13	437	695	230	1610	920	2660	3570	1490	1230	440	449	142
14	380	1010	220	1070	900	2430	2770	1360	1060	360	409	158
15	487	812	220	821	900	2290	2150	1100	942	407	293	134
16	430	581	586	650	950	2180	1980	1730	952	283	257	169
17	344	478	1020	550	1040	2090	3010	2030	1050	360	180	135
18	408	380	929	500	1080	2030	3380	1710	1010	301	119	132
19	366	429	723	450	1120	2570	3550	1430	1060	315	131	129
20	298	433	732	454	1060	4010	6230	1300	833	292	247	175
21	269	383	562	596	981	4010	7270	1420	721	266	246	133
22	304	371	504	652	963	4300	7440	1410	727	194	348	204
23	252	359	549	727	987	3810	6590	1690	589	350	173	328
24	187	407	512	1360	992	3040	5910	2160	570	270	358	353
25	261	351	580	1830	980	2390	6890	2320	502	355	356	243
26	346	353	692	1780	896	2000	7410	2050	455	226	121	202
27	229	385	773	1490	836	1820	7040	2350	440	246	311	194
28	289	320	709	1190	791	2190	5740	2910	489	222	116	187
29	268	427	707	1030	---	2480	4530	2750	1150	320	218	195
30	187	488	765	925	---	2140	3670	2460	986	234	210	166
31	187	---	640	923	---	1870	---	2480	---	270	227	---
TOTAL	10003	13484	16425	27130	35381	73952	114300	64190	40496	14058	8765	5638
MEAN	323	449	530	875	1264	2386	3810	2071	1350	453	283	188
MAX	592	1010	1020	1830	3800	4300	7440	3160	2960	1250	565	353
MIN	187	235	220	369	791	802	1550	1100	440	194	114	129
CAL YR 1982	TOTAL	394455	MEAN	1081	MAX	5540	MIN	99				
WTR YR 1983	TOTAL	423822	MEAN	1161	MAX	7440	MIN	114				

HOUSATONIC RIVER BASIN

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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. Water released from Lake Wononskopomuc on Sept. 6-13, 16-20, 28-30.

AVERAGE DISCHARGE.--22 years, 48.1 ft³/s (1.362 m³/s), 22.22 in/yr (564 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 contracted-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)
Feb. 3	2200	258 7.31	2.47 0.753	Apr. 20	0730	422 12.0	3.04 0.927
Apr. 11	0600	332 9.40	2.74 0.835	25	1600	*504 14.3	*3.26 0.994
17	0330	268 7.59	2.51 0.765	June 4	2000	325 9.20	2.75 0.838

Minimum discharge, 7.0 ft³/s (0.20 m³/s) Sept. 15, gage height, 0.89 ft (0.271 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	15	20	33	44	85	102	94	31	11	13
2	9.9	12	14	19	34	124	70	99	82	29	15	11
3	9.7	12	14	19	180	114	88	96	70	26	10	11
4	9.7	12	14	16	156	83	89	104	191	23	41	10
5	9.7	29	13	21	104	76	76	96	158	64	40	11
6	9.7	19	13	34	85	73	70	85	105	112	22	34
7	9.9	13	12	29	67	110	64	77	134	51	72	42
8	14	12	12	24	65	123	64	61	94	41	15	42
9	30	11	11	21	60	154	76	70	76	37	13	41
10	17	9.8	11	19	55	134	107	68	65	32	12	41
11	13	9.5	10	80	53	140	253	64	61	28	20	39
12	12	9.6	10	55	50	148	134	60	59	26	41	38
13	12	47	10	37	48	123	112	56	64	23	26	37
14	16	28	10	30	47	102	96	53	60	21	18	11
15	14	18	11	25	45	99	83	55	70	19	15	7.5
16	12	16	39	24	44	96	119	107	64	18	14	31
17	12	14	42	23	43	91	222	99	60	15	12	35
18	11	16	34	21	49	88	158	76	53	14	16	35
19	12	16	20	20	47	140	180	66	49	14	17	31
20	11	16	20	19	43	210	360	64	42	13	14	26
21	12	16	19	19	41	191	270	73	39	12	11	18
22	12	16	18	20	42	205	198	61	36	14	8.9	42
23	11	16	18	40	45	146	180	107	32	12	8.5	19
24	11	16	19	107	54	117	232	110	30	15	7.9	14
25	11	16	22	66	50	100	430	80	28	16	8.3	11
26	17	15	32	49	47	89	334	68	26	13	8.8	10
27	15	16	26	37	43	83	225	171	26	10	9.1	9.4
28	14	13	25	34	44	148	165	136	81	10	8.7	13
29	13	19	25	31	---	110	130	104	71	10	10	16
30	13	18	22	30	---	93	121	99	38	9.9	13	16
31	13	---	21	32	---	89	---	115	---	9.2	14	---
TOTAL	396.6	493.9	582	1021	1674	3643	4791	2682	2058	768.1	552.2	714.9
MEAN	12.8	16.5	18.8	32.9	59.8	118	160	86.5	68.6	24.8	17.8	23.8
MAX	30	47	42	107	180	210	430	171	191	112	72	42
MIN	9.7	9.5	10	16	33	44	64	53	26	9.2	7.9	7.5
CFSM	.44	.56	.64	1.12	2.03	4.01	5.44	2.94	2.33	.84	.61	.81
IN.	.50	.62	.74	1.29	2.12	4.61	6.06	3.39	2.60	.97	.70	.90

CAL YR 1982 TOTAL 17889.6 MEAN 49.0 MAX 861 MIN 6.3 CFSM 1.67 IN 22.64
WTR YR 1983 TOTAL 19376.7 MEAN 53.1 MAX 430 MIN 7.5 CFSM 1.81 IN 24.52

HOUSATONIC RIVER BASIN

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 to 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), 1980 (WDR CT-80-1), and water temperatures available for water year 1959 (WSP 1641).

AVERAGE DISCHARGE.--54 years, 303 ft³/s (8.581 m³/s), 20.27 in/yr (515 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)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 20	0630	2540	71.9	5.67	1.728	Apr. 17	1830	2260	64.0	5.36	1.634
28	1800	1550	43.9	4.52	1.378	20	2330	2930	83.0	6.06	1.847
Apr. 11	1130	1840	52.1	4.89	1.490	25	--	*about 3000	about 85	*about 6.2	about 1.89

Minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 11, 12, 16, 17, 21, gage height, 0.61 ft (0.186 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	44	110	120	326	250	706	900	555	179	42	31
2	35	40	101	114	301	721	632	800	484	152	50	29
3	31	42	92	110	863	968	779	800	426	129	55	26
4	32	40	86	99	1090	821	896	780	656	111	44	23
5	26	52	84	105	732	769	721	750	701	116	80	22
6	42	114	84	149	568	727	632	650	534	342	77	22
7	27	101	86	181	509	837	568	550	609	204	62	21
8	26	86	79	162	480	991	572	500	525	152	51	19
9	79	72	75	147	445	1260	661	480	438	129	42	18
10	110	63	69	133	376	1130	847	470	379	109	37	17
11	75	56	67	438	345	1260	1720	450	339	91	35	17
12	66	50	60	465	307	1190	1280	380	304	80	44	17
13	54	87	58	342	300	1120	1000	352	274	74	58	17
14	49	304	58	260	300	1040	847	329	251	67	51	17
15	50	206	70	220	300	940	742	323	265	69	49	17
16	46	165	105	200	290	842	1090	476	229	85	43	17
17	45	137	268	190	290	758	2130	568	263	74	37	16
18	42	116	174	191	310	701	1990	434	226	63	34	17
19	40	101	150	171	310	1710	1780	372	215	56	35	17
20	41	91	143	160	290	2360	2570	365	199	54	36	17
21	40	84	133	160	280	1900	2690	358	179	52	32	19
22	39	81	124	160	270	2010	2110	342	157	55	30	55
23	37	79	120	208	270	1510	1730	546	139	52	27	59
24	36	75	122	505	290	1200	1580	590	127	59	25	45
25	36	72	139	513	270	1010	2800	476	113	62	23	36
26	50	67	162	441	260	863	2500	408	100	58	23	31
27	61	69	167	369	250	785	1800	790	98	50	22	27
28	63	67	152	313	240	1400	1400	763	215	45	22	25
29	71	87	147	283	---	1200	1200	609	390	42	23	23
30	77	116	139	268	---	918	1000	632	229	44	27	23
31	49	---	126	310	---	795	---	637	---	44	30	---
TOTAL	1515	2764	3550	7487	10862	33986	40973	16880	9619	2899	1246	740
MEAN	48.9	92.1	115	242	388	1096	1366	545	321	93.5	40.2	24.7
MAX	110	304	268	513	1090	2360	2800	900	701	342	80	59
MIN	26	40	58	99	240	250	568	323	98	42	22	16
CFSM	.24	.45	.57	1.19	1.91	5.40	6.73	2.69	1.58	.46	.20	.12
IN.	.28	.51	.65	1.37	1.99	6.23	7.51	3.09	1.76	.53	.23	.14

CAL YR 1982	TOTAL	108978	MEAN 299	MAX 3360	MIN 21	CFSM 1.47	IN 19.97
WTR YR 1983	TOTAL	132521	MEAN 363	MAX 2800	MIN 16	CFSM 1.79	IN 24.28

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.--996 mi² (2,580 km²) rev.

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), and suspended sediment for 1979 (WDR 79-1), 1980 (WDR 80-1). High flow is regulated by flood-control reservoirs from 20.5 mi² (53.1 km²) in the Blackberry River basin, but does not affect monthly runoff appreciably.

AVERAGE DISCHARGE.--43 years, (1940-83), 1,687 ft³/s (47.78 m³/s) 23.11 in/yr (587 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)
Feb. 4	1445	6,110	173	6.86	2.091	Apr. 17	2315	6,870	195	7.25	2.210
Mar. 21	2030	8,100	229	7.84	2.390	20	2145	11,600	329	9.33	2.844
Apr. 11	1915	6,750	191	7.19	2.192	25	1415	*12,500	354	*9.66	2.944

Minimum daily discharge, 172 ft³/s (4.87 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	250	762	743	1470	1330	3020	5130	3380	1190	339	308
2	220	314	706	711	1450	2080	2670	4560	3110	992	518	274
3	315	324	747	684	3230	3450	2860	4380	2750	862	366	320
4	339	484	602	718	5690	3300	3340	4340	3180	781	343	241
5	376	586	669	450	4570	2980	3180	4170	4180	784	725	199
6	285	633	533	761	3200	2820	2880	3640	3550	1270	484	186
7	237	694	429	996	2750	3120	2660	3180	3410	1610	735	386
8	305	829	400	879	2390	3660	2520	2820	3310	1300	316	301
9	680	577	360	808	2100	4450	2790	2720	2890	1030	215	280
10	774	400	340	831	1730	4420	3460	2610	2480	762	191	214
11	618	444	320	2050	1600	4710	6290	2510	2160	713	309	172
12	563	422	300	2610	1560	4890	6200	2270	1940	573	640	257
13	559	857	280	2330	1500	4630	5430	2010	1830	568	295	213
14	501	1230	266	1490	1500	4230	4450	1930	1560	542	591	218
15	484	1270	351	1330	1500	3900	3530	1700	1460	648	405	249
16	564	952	737	1170	1550	3620	4060	2340	1290	484	351	246
17	362	829	1260	1050	1640	3370	6260	2980	1410	423	316	241
18	472	638	1300	950	1730	3230	6520	2530	1370	631	243	231
19	462	548	1080	920	1750	5430	6550	2120	1400	402	217	229
20	373	523	965	880	1660	7570	10300	1970	1300	466	229	263
21	346	521	847	842	1550	7350	11500	1980	1120	390	314	259
22	342	519	842	1020	1490	7610	11200	2010	1000	390	290	325
23	315	482	709	1090	1520	6550	10100	2540	937	339	370	427
24	276	499	746	2160	1570	5320	9610	3020	848	557	352	429
25	267	511	788	2670	1550	4270	11900	3130	828	466	367	337
26	574	400	807	2570	1490	3540	11900	2790	659	457	294	270
27	330	576	1020	2120	1360	3180	10800	3410	659	354	234	311
28	307	489	1060	1780	1290	4630	9020	4100	883	366	295	274
29	372	546	939	1490	---	4570	7140	3800	1610	347	388	286
30	305	536	993	1400	---	3780	5950	3580	1450	513	176	264
31	243	---	953	1450	---	3280	---	3480	---	374	314	---
TOTAL	12445	17883	22111	40953	56390	131270	188090	93750	57954	20584	11222	8210
MEAN	401	596	713	1321	2014	4235	6270	3024	1932	664	362	274
MAX	774	1270	1300	2670	5690	7610	11900	5130	4180	1610	735	429
MIN	220	250	266	450	1290	1330	2520	1700	659	339	176	172
CFSM	.40	.60	.72	1.33	2.02	4.25	6.30	3.04	1.94	.67	.36	.28
IN.	.46	.67	.83	1.53	2.11	4.90	7.03	3.50	2.16	.77	.42	.31
CAL YR 1982	TOTAL	582097	MEAN	1595	MAX	9230	MIN	98	CFSM	1.60	IN	21.74
WTR YR 1983	TOTAL	660862	MEAN	1811	MAX	11900	MIN	172	CFSM	1.82	IN	24.68

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.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01200500, 5.4 mi (8.7 km) upstream, and adjusting its discharge by multiplying by a factor of 1.03, which is the ratio of the two stations' drainage areas.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 19...	1250	911	282	8.8	18.5	11.0	3.0	12.7	112	K8	56
NOV 19...	1150	793	290	8.3	12.0	7.5	2.0	15.1	123	110	84
DEC 14...	1300	274	320	8.5	-1.0	0.5	3.3	15.6	108	K10	30
JAN 17...	1350	1080	230	8.2	-1.0	0.5	3.0	15.7	110	24	120
MAR 01...	1330	1450	279	8.6	11.0	3.0	1.6	15.7	116	K12	150
APR 15...	1150	3630	200	7.9	11.5	8.5	1.7	12.2	103	150	280
MAY 17...	1325	3160	240	8.2	13.0	12.0	1.0	12.0	109	1500	1000
JUN 14...	1320	1430	256	8.6	27.0	23.0	1.4	10.4	120	26	400
JUL 13...	1345	639	269	9.1	28.0	25.0	1.5	12.0	143	22	2000
AUG 09...	1125	239	290	8.6	28.0	27.0	1.7	10.4	130	130	6000
SEP 01...	1254	1030	330	8.4	23.5	23.0	3.3	8.6	100	27	260

DATE	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- LITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	--	--	--	--	--	16	16	--	183	32	0.25
NOV 19...	130	20	33	12	112	16	14	4.6	169	147	0.23
DEC 14...	--	--	--	--	--	16	13	--	191	29	0.26
JAN 17...	93	14	23	8.6	79	14	11	4.6	135	109	0.18
MAR 01...	--	--	--	--	--	18	15	--	132	33	0.18
APR 15...	--	--	--	--	--	10	10	--	111	20	0.15
MAY 17...	100	8	26	8.9	94	10	9.3	3.1	137	114	0.19
JUN 14...	--	--	--	--	--	10	12	--	139	22	0.19
JUL 13...	140	17	33	13	119	12	13	1.8	177	144	0.24
AUG 09...	--	--	--	--	--	15	18	--	170	33	0.23
SEP 01...	--	--	--	--	--	14	23	--	186	37	0.25

HOUSATONIC RIVER BASIN

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01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	450	184	0.39	<0.01	0.4	0.02	0.18	0.2	0.6	0.03
NOV 19...	362	181	0.49	<0.01	0.5	0.02	0.78	0.8	1.3	0.06
DEC 14...	141	199	0.69	<0.01	0.7	0.01	0.59	0.6	1.3	0.07
JAN 17...	394	125	0.49	<0.01	0.5	0.02	0.18	0.2	0.7	0.05
MAR 01...	517	175	0.59	<0.01	0.6	0.01	0.59	0.6	1.2	0.03
APR 15...	1090	155	0.39	<0.01	0.4	0.01	0.29	0.3	0.7	0.06
MAY 17...	1170	161	0.39	<0.01	0.4	0.01	0.29	0.3	0.7	<0.01
JUN 14...	537	160	0.29	<0.01	0.3	0.01	0.29	0.3	0.6	0.05
JUL 13...	305	167	0.09	<0.01	<0.1	0.02	0.78	0.8	0.9	0.06
AUG 09...	110	195	0.09	<0.01	<0.1	0.04	1.1	1.10	1.2	0.06
SEP 01...	517	203	0.09	<0.01	<0.1	0.04	1.1	1.10	1.2	0.09

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	0.03	1	<1	5	--	<1	--	3	10	3.8
NOV 19...	0.04	<1	<1	4	51	1	10	9	<4.00	3.9
DEC 14...	0.04	4	<1	1	--	3	--	2	10	3.1
JAN 17...	0.03	<1	8	1	40	1	11	1	<4.00	3.1
MAR 01...	0.02	<1	1	1	--	1	--	5	<10	2.4
APR 15...	0.02	1	3	6	--	5	--	2	<10	3.3
MAY 17...	0.02	1	<1	2	36	3	10	1	3.00	2.6
JUN 14...	0.02	<1	<1	1	--	<1	--	2	20	3.2
JUL 13...	0.04	<1	<1	5	13	3	4	1	4.00	5.9
AUG 09...	0.03	<1	<1	7	--	1	--	1	20	5.0
SEP 01...	0.01	1	<1	8	--	<1	--	1	20	4.9

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 8.0 mi (12.9 km) upstream from Housatonic River.

DRAINAGE AREA.--60.6 mi² (157.0 km²).

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01201510, 7.1 mi (11.4 km) downstream, and adjusting its discharge by multiplying by a factor of 0.87, which is the ratio of the two stations' drainage areas.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 20...	1245	28	641	7.1	20.0	12.5	6.0	4.2	39	88000
NOV 19...	1025	47	490	7.5	11.0	9.5	3.0	10.7	91	600
DEC 16...	1400	69	510	7.5	14.0	5.0	20	11.4	90	5900
JAN 18...	1330	77	470	7.6	<-5.0	0.5	10	12.9	90	200
MAR 02...	1300	385	230	7.4	10.0	5.0	20	11.8	94	4200
APR 12...	1400	799	215	7.3	14.0	10.0	3.6	10.8	96	340
MAY 18...	1305	151	345	7.5	18.0	14.0	0.8	10.3	98	200
JUN 16...	1335	67	427	7.3	29.0	22.0	3.1	5.1	58	400
JUL 14...	1025	37	560	7.3	27.0	21.0	2.2	4.2	46	4400
AUG 11...	1320	25	625	7.2	23.0	21.5	2.8	3.8	42	420
SEP 01...	1315	32	565	7.3	28.0	24.0	0.9	4.4	37	750

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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	29000	--	--	--	--	--	39	68	--	--
NOV 19...	7000	150	51	40	13	103	40	48	9.9	268
DEC 16...	28000	--	--	--	--	--	26	86	--	289
JAN 18...	200	140	44	36	12	96	29	46	9.9	239
MAR 02...	9000	--	--	--	--	--	19	23	--	102
APR 12...	650	--	--	--	--	--	15	17	--	119
MAY 18...	45	130	30	32	11	95	21	31	6.1	241
JUN 16...	4300	--	--	--	--	--	29	46	--	298
JUL 14...	2600	170	71	42	15	96	41	73	7.3	363
AUG 11...	3600	--	--	--	--	--	39	87	--	379
SEP 01...	530	--	--	--	--	--	38	69	--	333

HOUSATONIC RIVER BASIN

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01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 20...	107	0.15	8.0	416	1.5	0.24	1.7	6.50	--	--
NOV 19...	213	0.36	34.0	299	0.94	0.06	1.0	3.70	0.4	4.10
DEC 16...	112	0.39	53.8	--	0.92	0.08	1.0	2.10	4.4	6.50
JAN 18...	191	0.33	49.5	293	0.98	0.02	1.0	2.80	0.3	3.10
MAR 02...	42	0.14	106	--	0.68	0.02	0.7	0.44	0.46	0.9
APR 12...	32	0.16	257	157	0.58	0.02	0.6	0.25	--	--
MAY 18...	158	0.33	98.3	245	0.94	0.06	1.0	0.60	0.9	1.50
JUN 16...	75	0.41	53.6	308	1.8	0.28	2.1	1.60	0.6	2.20
JUL 14...	236	0.49	36.3	376	2.7	0.41	3.1	2.90	0.7	3.60
AUG 11...	126	0.52	25.8	433	2.3	0.36	2.7	5.20	11	16.0
SEP 01...	107	0.45	28.8	350	2.1	0.23	2.3	3.70	1.7	5.40

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 20...	1.7	1.90	1.70	1	1	2	<1	43	21	530
NOV 19...	5.1	1.30	1.20	<1	<1	8	<1	34	15	540
DEC 16...	7.5	1.30	0.35	1	2	11	<1	300	10	9600
JAN 18...	4.1	0.68	0.44	1	<1	11	1	38	15	1000
MAR 02...	1.6	0.41	0.09	2	1	8	1	41	5	4000
APR 12...	0.6	0.13	0.08	1	<1	<1	<1	20	7	820
MAY 18...	2.5	0.12	0.07	<1	1	5	<1	33	22	840
JUN 16...	4.3	0.35	0.22	<1	1	12	<1	37	11	1200
JUL 14...	6.7	0.21	0.12	1	1	7	<1	24	17	920
AUG 11...	19	0.55	0.45	1	1	<1	<1	28	14	870
SEP 01...	7.7	0.33	0.19	1	<1	<1	<1	37	13	1000

HOUSATONIC RIVER BASIN

01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	--	14	1	--	85	61	40	30	14
NOV 19...	67	6.00	2	190	40	34	50	22	5.7
DEC 16...	--	180	<1	--	140	33	150	10	16
JAN 18...	53	10	2	110	17	15	40	10	6.8
MAR 02...	--	38	2	--	19	6	60	20	7.3
APR 12...	--	15	8	--	10	8	40	10	5.0
MAY 18...	74	2.00	1	89	10	3	30	9.00	4.5
JUN 16...	--	12	<1	--	28	16	50	20	5.9
JUL 14...	61	17	6	290	23	10	40	13	6.6
AUG 11...	--	15	2	--	25	19	60	20	6.9
SEP 01...	--	7.00	<1	--	25	18	30	30	5.7

HOUSATONIC RIVER BASIN

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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 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION	COLIFORM, FECAL, (PER-CENT UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 19...	0945	280	8.2	10.0	12.5	2.0	11.5	105	32	37
JAN 18...	1410	240	7.8	<-5.0	0.5	4.5	13.8	96	200	820
MAR 03...	1015	167	7.6	6.0	2.0	3.5	14.9	108	K16	1400
MAY 18...	1130	250	8.1	13.0	14.0	0.4	10.6	100	K13	K15
JUL 14...	1210	250	8.8	27.0	26.0	1.0	10.8	130	K7	27
SEP 01...	1405	260	8.3	24.0	24.0	1.5	10.0	118	K1	K2

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 19...	120	20	28	11	95	15	22	0.1	156	133
JAN 18...	88	15	22	8.0	73	15	14	4.5	123	107
MAR 03...	--	--	--	--	--	15	11	--	84	26
MAY 18...	110	15	29	9.9	98	12	11	3.1	145	124
JUL 14...	110	--	28	10	45	13	--	1.7	158	80
SEP 01...	--	--	--	--	--	12	17	--	138	29

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 19...	0.21	158	0.29	0.01	0.3	0.12	0.38	0.5	0.8	0.03
JAN 18...	0.17	136	0.59	0.01	0.6	0.15	0.15	0.3	0.9	0.08
MAR 03...	0.11	103	0.49	<0.01	0.5	0.10	0.2	0.3	0.8	0.04
MAY 18...	0.2	162	0.48	0.02	0.5	0.09	0.21	0.3	0.8	0.05
JUL 14...	0.21	152	0.19	0.01	0.2	<0.01	0.99	1.00	1.2	0.05
SEP 01...	0.19	156	0.08	0.02	<0.1	0.11	0.79	0.9	1.0	0.07

HOUSATONIC RIVER BASIN

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 19...	0.01	<1	<1	<1	23	<1	<1	<1	6.00	3.4
JAN 18...	0.04	<1	3	4	41	1	16	2	<4.00	4.2
MAR 03...	0.02	<1	<1	1	--	3	--	4	<10	3.1
MAY 18...	0.04	1	<1	4	31	<1	14	<1	3.00	2.6
JUL 14...	0.03	<1	<1	4	12	7	2	10	<3.00	3.2
SEP 01...	0.01	1	<1	7	--	1	--	4	10	5.1

HOUSATONIC RIVER BASIN

207

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.

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 19...	1340	33	123	8.6	18.5	11.0	1.0	13.2	117	K10	28
NOV 18...	1100	101	105	7.8	9.5	5.0	4.0	16.5	127	56	100
DEC 14...	1345	58	147	7.8	-1.0	0.5	4.1	15.6	107	K6	31
JAN 19...	0930	180	118	7.3	<-5.0	0.5	4.7	15.2	105	27	1400
MAR 03...	1100	625	82	7.3	7.0	3.0	4.4	14.2	106	36	6000
APR 15...	1330	555	84	7.4	12.5	9.0	1.2	12.3	105	72	820
MAY 18...	1035	266	84	7.6	13.0	10.0	0.6	12.3	107	39	360
JUN 17...	1115	135	98	8.2	34.0	22.5	1.0	9.2	103	72	1400
JUL 14...	1300	30	120	8.2	29.0	25.0	1.0	9.6	114	140	940
AUG 09...	1315	9.0	131	8.1	32.0	25.5	1.0	9.2	110	84	3000
SEP 01...	1600	10	140	8.5	27.5	27.0	1.5	9.6	117	130	370

DATE	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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	--	--	--	--	--	10	11	--	85	21	0.12
NOV 18...	45	11	11	4.2	34	8.0	9.6	3.7	70	57	0.09
DEC 14...	--	--	--	--	--	13	10	--	87	23	0.12
JAN 19...	37	11	9.0	3.6	26	12	8.8	5.9	76	55	0.1
MAR 03...	--	--	--	--	--	11	5.7	--	57	17	0.08
APR 15...	--	--	--	--	--	7.0	6.4	--	54	13	0.07
MAY 18...	32	8	8.1	2.9	24	9.0	4.5	3.5	56	43	0.08
JUN 17...	--	--	--	--	--	8.0	7.0	--	76	15	0.1
JUL 14...	44	9	11	4.0	35	9.0	9.8	1.5	82	56	0.11
AUG 09...	--	--	--	--	--	10	11	--	82	21	0.11
SEP 01...	--	--	--	--	--	12	12	--	80	24	0.11

HOUSATONIC RIVER BASIN

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 19...	7.6	84	0.09	<0.01	0.1	0.04	0.86	0.9	1.0	<0.01
NOV 18...	19.1	87	0.09	<0.01	0.1	0.02	0.68	0.7	0.8	0.04
DEC 14...	13.6	101	0.59	<0.01	0.6	0.07	1.0	1.10	1.7	0.06
JAN 19...	36.9	81	0.39	<0.01	0.4	0.12	0.18	0.3	0.7	0.04
MAR 03...	96.2	68	0.29	<0.01	0.3	0.03	0.37	0.4	0.7	0.04
APR 15...	80.9	55	0.19	<0.01	0.2	0.04	0.26	0.3	0.5	0.04
MAY 18...	40.2	66	0.09	<0.01	0.1	0.04	0.26	0.3	0.4	0.03
JUN 17...	27.7	69	0.19	<0.01	0.2	0.03	0.37	0.4	0.6	0.04
JUL 14...	6.6	82	0.09	<0.01	<0.1	0.06	0.74	0.8	0.9	0.06
AUG 09...	2.0	89	0.09	<0.01	<0.1	0.06	0.84	0.9	1.0	0.02
SEP 01...	2.3	88	0.28	0.02	0.3	0.06	0.44	0.5	0.8	0.04

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	<0.01	1	<1	3	--	1	--	5	10	4.6
NOV 18...	0.01	<1	<1	2	57	1	6	1	<4.00	4.9
DEC 14...	0.03	2	<1	1	--	4	--	1	10	4.1
JAN 19...	0.02	<1	<1	4	71	1	30	1	<4.00	4.2
MAR 03...	0.01	1	<1	1	--	3	--	3	10	3.5
APR 15...	0.04	3	<1	7	--	5	--	2	10	3.6
MAY 18...	0.01	1	<1	9	84	4	7	2	3.00	3.4
JUN 17...	<0.01	1	9	5	--	<1	--	2	10	4.5
JUL 14...	0.04	<1	<1	8	68	3	20	2	5.00	4.6
AUG 09...	0.01	<1	<1	4	--	1	--	<1	10	3.7
SEP 01...	0.03	<1	2	12	--	<1	--	4	10	3.1

01204000 POMPERAUG RIVER AT SOUTHBURY, CT

LOCATION.--Lat 41°28'50", long 73°13'30", New Haven County, Hydrologic Unit 01100005, on right bank 200 ft (60 m) upstream from bridge on Poverty Road, 800 ft (250 m) downstream from Bullet Hill Brook, 0.6 mi (1.0 km) west of Southbury, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--75.1 mi² (194.5 km²) rev.

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

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).--51 years, 128 ft³/s (3.625 m³/s), 23.14 in/yr (588 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.

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. 11	1000	2020 57.2	7.65 2.332	Apr. 11	0030	3220 91.2	9.15 2.789
Feb. 3	1430	1560 44.2	7.01 2.137	17	0015	3280 92.9	9.22 2.810
Mar. 19	1130	*4560 129	*10.68 3.255	19	2100	1790 50.7	7.34 2.237
				24	1930	1520 43.0	6.95 2.118

Minimum discharge, 6.6 ft³/s (0.19 m³/s) Sept. 20, gage height, 2.31 ft (0.704 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	52	53	197	203	269	266	250	48	19	19
2	17	20	47	50	182	500	238	245	199	44	28	16
3	16	19	44	49	1260	430	477	228	165	38	40	14
4	15	19	44	41	800	300	417	250	466	33	40	13
5	15	53	42	43	500	270	302	212	293	74	26	13
6	14	47	42	98	280	230	255	188	210	101	20	12
7	14	33	40	86	220	280	233	168	192	52	20	11
8	15	29	36	69	195	320	271	159	161	41	15	9.1
9	32	26	34	60	180	740	360	203	136	34	12	8.7
10	28	24	30	58	165	450	867	155	121	30	11	7.9
11	21	23	32	988	155	380	1380	142	111	27	15	9.1
12	19	22	31	360	148	650	582	132	101	26	42	10
13	20	266	28	224	140	460	437	125	90	23	37	11
14	22	129	28	163	135	340	360	116	79	21	21	10
15	22	80	30	150	130	280	317	131	73	20	17	9.5
16	20	63	137	130	130	250	765	165	88	20	15	8.7
17	19	53	142	120	180	220	1650	219	68	19	14	8.7
18	18	47	80	110	310	210	765	140	64	17	17	9.1
19	17	44	66	102	280	2160	1050	119	62	23	18	8.7
20	17	42	62	98	230	1020	1160	145	58	21	14	7.5
21	19	40	58	96	195	978	678	142	54	20	12	10
22	17	39	54	93	198	835	503	122	49	21	11	23
23	17	38	52	182	200	527	414	342	45	17	12	15
24	17	37	57	551	195	414	849	269	40	39	11	12
25	20	34	76	332	190	351	827	231	37	36	10	11
26	58	32	97	245	180	302	559	174	34	24	10	10
27	37	32	74	190	175	291	430	384	46	20	9.5	9.5
28	29	30	68	163	170	891	363	269	142	18	37	8.7
29	26	83	66	150	---	473	317	206	113	17	36	8.7
30	23	71	60	143	---	348	299	305	62	19	31	10
31	22	---	54	210	---	299	---	381	---	20	23	---
TOTAL	665	1496	1763	5407	7320	15402	17394	6333	3609	963	643.5	333.9
MEAN	21.5	49.9	56.9	174	261	497	580	204	120	31.1	20.8	11.1
MAX	58	266	142	988	1260	2160	1650	384	466	101	42	23
MIN	14	19	28	41	130	203	233	116	34	17	9.5	7.5
CFSM	.29	.66	.76	2.32	3.48	6.62	7.72	2.72	1.60	.41	.28	.15
IN.	.33	.74	.87	2.68	3.63	7.63	8.62	3.14	1.79	.48	.32	.17

CAL YR 1982 TOTAL 51831.0 MEAN 142 MAX 3300 MIN 14 CFSM 1.89 IN 25.67
WTR YR 1983 TOTAL 61329.4 MEAN 168 MAX 2160 MIN 7.5 CFSM 2.24 IN 30.38

HOUSATONIC RIVER BASIN

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 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 18...	1000	280	7.8	7.0	11.5	2.0	11.2	100	24	110
JAN 18...	1000	240	7.8	<-5.0	1.0	4.4	13.5	94	520	1100
MAR 03...	0915	237	7.8	7.0	2.0	2.1	13.9	101	31	84
MAY 18...	1405	215	8.1	20.0	13.5	0.5	11.9	111	K7	K9
JUL 14...	0920	242	7.4	27.0	22.5	0.4	4.3	48	76	88
SEP 03...	1433	275	7.7	32.5	26.0	1.0	7.6	92	32	K9

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 18...	120	21	28	11	94	15	22	1.9	161	134
JAN 18...	88	16	22	8.0	72	13	12	4.3	123	103
MAR 03...	--	--	--	--	--	17	15	--	111	32
MAY 18...	94	16	24	8.3	78	12	9.5	3.4	129	104
JUL 14...	100	18	26	8.9	84	14	16	4.0	151	119
SEP 03...	--	--	--	--	--	10	18	--	145	28

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 18...	0.22	165	0.38	0.02	0.4	0.24	0.16	0.4	0.8	0.09
JAN 18...	0.17	160	0.59	0.01	0.6	0.15	0.15	0.3	0.9	0.08
MAR 03...	0.15	157	0.59	<0.01	0.6	0.12	0.28	0.4	1.0	0.05
MAY 18...	0.18	135	0.28	0.02	0.3	0.05	0.55	0.6	0.9	0.04
JUL 14...	0.21	149	0.55	0.05	0.6	0.08	0.42	0.5	1.1	0.07
SEP 03...	0.2	170	0.07	0.03	0.1	0.26	0.84	1.10	1.2	0.06

HOUSATONIC RIVER BASIN

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01204510 LAKE ZOAR AT RIVERSIDE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 18...	0.06	<1	<1	2	34	1	13	5	<4.00	3.6
JAN 18...	0.04	2	<1	1	34	2	8	1	<4.00	3.5
MAR 03...	0.03	<1	<1	2	--	1	--	4	<10	2.5
MAY 18...	0.01	1	<1	3	19	5	8	2	3.00	2.3
JUL 14...	0.06	<1	<1	11	23	3	10	1	<3.00	3.4
SEP 03...	0.03	1	<1	3	--	1	--	<1	10	3.8

HOUSATONIC RIVER BASIN

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 ice conditions or missed records.

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, 28.0°C Aug. 7 and 8; minimum daily, 1.0°C on several days in February.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.5	14.5	9.0	5.0	2.0	2.0	5.5	12.0	18.0	23.0	25.0	25.0
2	20.5	15.0	9.5	4.5	2.0	2.0	6.5	12.5	18.0	23.0	26.0	25.0
3	20.0	15.0	9.5	4.5	2.0	2.5	6.5	13.0	17.0	23.0	26.0	25.0
4	20.0	14.5	9.5	4.5	1.5	2.5	6.5	13.0	17.0	24.0	27.0	25.0
5	20.0	14.0	9.5	4.5	1.0	2.5	6.5	14.0	17.0	24.0	27.0	26.0
6	20.0	14.0	9.5	4.5	1.0	3.0	6.5	14.0	17.0	24.0	27.0	26.0
7	20.0	13.5	9.0	4.5	1.0	3.0	7.0	14.0	17.0	24.0	28.0	26.0
8	19.5	13.0	9.0	4.5	1.0	3.0	7.0	---	17.0	25.0	28.0	25.0
9	19.0	13.0	8.5	4.5	1.0	3.5	7.0	---	17.0	25.0	27.0	26.0
10	18.0	11.5	8.0	4.0	1.0	3.5	7.5	---	19.0	24.0	27.0	26.0
11	17.0	11.5	8.0	4.0	1.0	4.0	8.0	---	22.0	24.0	26.0	26.0
12	18.0	11.0	7.5	4.0	1.0	4.0	8.5	14.0	24.0	25.0	24.0	26.0
13	18.0	11.0	7.0	3.0	1.0	4.0	10.0	15.0	25.0	25.0	23.0	25.5
14	18.0	10.5	7.0	3.0	1.0	4.0	9.0	15.0	---	25.5	22.0	25.0
15	18.0	10.5	7.0	3.0	1.0	5.0	9.0	14.0	---	25.5	24.0	25.0
16	17.5	10.5	6.5	3.0	1.0	5.0	9.0	14.0	22.0	25.5	26.0	25.0
17	17.0	11.0	6.5	2.0	2.0	5.0	9.0	14.0	22.0	25.5	26.0	24.0
18	16.0	10.0	6.0	2.0	2.5	5.0	9.0	14.5	22.0	26.0	26.0	24.0
19	16.0	10.0	6.0	2.0	2.0	5.0	8.5	14.5	22.0	26.0	26.0	24.0
20	16.0	10.0	5.5	1.5	2.0	6.0	7.5	14.0	22.0	26.0	25.5	24.0
21	16.0	10.5	5.0	1.5	1.5	7.0	7.0	15.0	22.0	25.5	25.5	23.0
22	16.0	11.0	5.0	1.5	1.5	7.0	7.0	16.0	22.0	24.5	25.5	22.0
23	16.0	12.0	5.0	1.5	1.5	7.0	8.0	16.0	22.0	24.5	25.5	22.0
24	16.0	11.5	5.0	1.5	1.5	7.0	7.0	16.0	22.0	25.0	25.0	22.0
25	16.0	11.0	5.0	1.5	1.5	6.0	7.5	17.0	22.5	25.0	25.0	22.0
26	16.0	10.5	5.5	1.5	1.5	5.5	9.0	17.0	22.5	25.0	25.0	21.0
27	16.0	9.5	6.0	1.5	2.0	5.0	9.5	17.5	22.5	24.0	26.0	21.0
28	15.5	9.0	5.0	1.0	2.0	5.5	9.5	17.5	22.5	24.0	26.0	21.0
29	15.5	9.0	5.0	1.0	---	5.0	10.0	18.0	22.5	24.0	26.0	21.0
30	15.0	9.0	5.0	1.0	---	5.0	11.0	18.5	22.0	24.0	26.0	20.0
31	15.0	---	5.0	1.0	---	5.0	---	18.5	---	24.0	25.0	---
MEAN	17.5	11.5	7.0	3.0	1.5	4.5	8.0	15.0	20.5	24.5	25.5	24.0
WTR YR 1983	MEAN	13.5		MAX	28.0		MIN	1.0				

HOUSATONIC RIVER BASIN

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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.--1,544 mi² (3999 km²) rev.

WATER-DISCHARGE RECORD

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

REVISED RECORDS.--WSP 711: 1929(M). WSP 781: Drainage area. WSP 1231: 1951. WSP 1301: 1933-34(M), 1936-37.

GAGE.--Water-stage recorder. Datum of gage is 24.98 ft (7.614 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, (see p.232), and by diversion out of basin at Shepaug Reservoir. High flows affected by flood control in the Blackberry River basin for 20.5 mi² (53.1 km²), but do not appreciably affect monthly runoff.

AVERAGE DISCHARGE (adjusted for storage and diversion).--55 years, 2,615 ft³/s (74.06 m³/s), 22.99 in/yr (584 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, 22,600 ft³/s (640 m³/s) Apr. 20, gage height, 13.78 ft (4.200 m); minimum, 39 ft³/s (1.10 m³/s) Aug. 15, gage height, 0.48 ft (0.146 m); minimum daily, 46 ft³/s (1.30 m³/s) May 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	86	60	57	4380	3100	6550	7730	6100	88	1600	626
2	85	427	1290	55	3630	4530	4510	5130	5530	3010	1070	94
3	83	397	1780	2860	6430	6250	5870	6280	5080	85	316	86
4	2420	1630	59	2210	8930	6100	6610	7580	4520	81	617	85
5	2840	1040	525	2090	8440	6400	6540	7060	6000	2820	127	85
6	1680	92	1490	914	5450	6000	6190	6110	6010	2280	84	1340
7	788	88	1360	3560	4840	4500	6110	4790	5750	2050	83	1050
8	886	808	260	66	3580	7000	5890	4540	5890	2260	1510	73
9	90	1320	1630	479	4870	8000	5920	5660	5780	162	762	70
10	86	486	2150	1970	4510	8000	8150	5390	2820	283	1400	84
11	81	426	63	5540	2450	8500	13700	5210	237	725	1730	84
12	1150	957	57	6020	571	8000	9680	4220	1700	1340	1830	1040
13	893	74	1550	5820	2950	8000	10400	2240	3560	1510	70	261
14	1030	2160	925	4360	4040	7500	7480	2580	3320	810	61	87
15	91	2820	1030	158	3820	7500	8050	46	3130	59	51	86
16	85	2660	2860	1610	3900	7000	10700	3740	3420	470	66	95
17	471	1890	3570	2850	3900	7000	16200	5300	2110	82	152	86
18	329	1090	70	2940	3320	6800	13000	5090	289	810	85	86
19	428	1070	1390	2990	1650	10000	15400	3540	1340	886	85	835
20	511	60	2990	1880	1450	12500	19800	2170	3710	1870	84	780
21	431	55	1640	876	2050	12000	17600	2150	2970	707	83	89
22	90	1060	3140	406	3570	12500	15700	2100	2900	145	79	87
23	90	1190	2460	3590	3960	10800	14300	4920	1210	78	76	85
24	89	1060	1510	5650	3700	10300	19300	6040	82	78	168	85
25	1830	57	64	5870	3630	8120	18000	5280	79	1150	82	84
26	495	51	207	5240	2170	6590	17000	5290	280	946	180	783
27	486	47	2360	3870	341	6360	15400	4980	1970	128	1450	577
28	1010	999	2640	2980	3640	8750	12800	5400	492	553	82	523
29	791	1930	1010	1910	---	8240	9250	4560	2190	838	1090	516
30	90	1440	1860	1930	---	7050	8260	5300	3290	83	1140	236
31	87	---	62	3930	---	6520	---	5570	---	81	969	---
TOTAL	19605	27470	42062	84681	106172	239910	334360	145996	91759	26468	17182	10098
MEAN	632	916	1357	2732	3792	7739	11150	4710	3059	854	554	337
MAX	2840	2820	3570	6020	8930	12500	19800	7730	6100	3010	1830	1340
MIN	81	47	57	55	341	3100	4510	46	79	59	51	70
(†)	-65.3	+145	-136	+75.7	+151	+231	-47.6	+75.7	-197	+65.5	-53.8	-18.6
MEAN ‡	567	1061	1221	2808	3943	7970	11102	4786	2862	920	500	318
CFSM ‡	0.37	0.69	0.79	1.82	2.55	5.16	7.19	3.10	1.85	0.60	0.32	0.21
IN ‡	0.43	0.77	0.91	2.10	2.66	5.95	8.02	3.57	2.06	0.69	0.37	0.23

CAL YR 1982 TOTAL 952123 MEAN 2609 MAX 21300 MIN 47 MEAN‡ 2623 CFSM‡ 1.70 IN‡ 23.06
WTR YR 1983 TOTAL 1145763 MEAN 3139 MAX 19800 MIN 46 MEAN‡ 3157 CFSM‡ 2.04 IN‡ 27.76

† 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.

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER-QUALITY RECORDS

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 September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 390 micromhos Sept. 14, 1977; minimum recorded, 46 micromhos Mar. 25, 1980.

WATER TEMPERATURES: Maximum recorded, 30.5°C Aug. 3, 6-9, 1976; minimum, 0.0°C many days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 20...	1405	91	278	7.6	20.0	17.0	7.0	6.9	69	20	25	--
NOV 18...	1230	91	261	7.8	10.0	11.0	2.0	11.8	104	40	2200	110
DEC 15...	0940	61	270	7.9	0.0	5.5	4.7	11.7	91	K12	36	--
JAN 18...	1100	5790	240	7.8	<-5.0	2.0	3.5	12.9	93	72	420	90
MAR 03...	1245	6200	240	7.8	8.0	2.0	2.8	14.8	107	K9	33	91
APR 15...	0945	8300	175	7.5	11.0	9.0	1.8	11.1	95	200	540	--
MAY 23...	1400	5970	225	8.1	25.0	15.0	1.5	11.9	117	46	120	91
JUN 17...	1245	5630	182	7.7	28.5	19.5	1.6	9.5	100	K18	32	--
JUL 11...	1215	58	200	7.6	24.5	21.0	1.0	8.6	93	K9	84	100
AUG 12...	1215	4560	260	7.6	16.0	24.0	1.5	3.8	45	K4	43	--
SEP 03...	0921	86	260	7.3	23.0	23.0	0.4	5.6	64	K8	440	110

DATE	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 20...	--	--	--	--	--	--	16	18	--	--	159	34
NOV 18...	20	27	10	12	1.9	89	17	16	<0.1	1.6	150	139
DEC 15...	--	--	--	--	--	--	18	16	--	--	154	34
JAN 18...	14	22	8.5	9.4	1.8	76	16	14	<0.1	4.3	125	122
MAR 03...	18	23	8.1	9.1	1.5	73	17	15	0.1	5.7	125	124
APR 15...	--	--	--	--	--	--	10	10	--	--	102	20
MAY 23...	16	23	8.1	7.8	1.4	75	17	13	0.1	3.3	124	119
JUN 17...	--	--	--	--	--	--	10	9.4	--	--	131	19
JUL 11...	16	26	9.0	9.0	1.4	86	16	15	0.1	2.7	--	131
AUG 12...	--	--	--	--	--	--	11	15	--	--	142	26
SEP 03...	9	26	9.9	9.7	1.7	97	14	17	0.2	2.7	135	140

HOUSATONIC RIVER BASIN

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01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, 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...	0.22	39.1	174	0.46	0.04	0.5	--	0.08	--	0.82	0.9	1.4
NOV 18...	0.2	36.9	151	0.38	0.02	0.4	0.4	0.16	0.18	0.24	0.4	0.8
DEC 15...	0.21	25.4	183	0.49	0.01	0.5	--	0.12	--	0.78	0.9	1.4
JAN 18...	0.17	1950	119	0.59	<0.01	0.6	0.57	0.16	0.13	0.04	0.2	0.8
MAR 03...	0.17	2090	--	0.59	<0.01	0.6	0.61	0.13	0.14	0.27	0.4	1.0
APR 15...	0.14	2290	109	0.39	0.01	0.4	--	0.06	--	0.24	0.3	0.7
MAY 23...	0.17	2000	134	0.29	0.01	0.3	0.32	--	0.07	0.47	--	0.8
JUN 17...	0.18	1990	133	0.19	0.01	0.2	--	0.05	--	0.55	0.6	0.8
JUL 11...	0.18	20.5	132	0.22	0.08	0.3	0.33	0.04	0.04	0.46	0.5	0.8
AUG 12...	0.19	1750	165	0.17	0.03	0.2	--	0.14	--	1.1	1.20	1.4
SEP 03...	0.18	31.3	152	0.15	0.05	0.2	0.11	--	0.17	0.79	--	1.0

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 20...	0.06	0.01	--	--	--	--	--	<1	<1	--	4	--
NOV 18...	0.10	0.06	0.01	<10	1	<1.00	21.00	<1	<1	<3.00	1	26
DEC 15...	0.08	0.03	--	--	--	--	--	2	<1	--	1	--
JAN 18...	0.28	0.04	0.03	20	1	<1.00	19.00	<1	<1	<3.00	3	28
MAR 03...	0.05	0.03	0.03	--	--	--	--	1	<1	--	3	--
APR 15...	0.05	0.03	--	--	--	--	--	1	5	--	8	--
MAY 23...	0.04	0.01	0.01	<10	1	<0.50	17.00	1	<1	<3.00	1	17
JUN 17...	0.04	<0.01	--	--	--	--	--	1	1	--	5	--
JUL 11...	0.05	0.04	<0.01	<10	1	<0.50	--	<1	<1	<3.00	4	8
AUG 12...	0.02	<0.01	--	--	--	--	--	2	<1	--	9	--
SEP 03...	0.05	0.02	<0.01	--	--	--	--	1	<1	--	2	--

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	<1	--	--	--	--	3	--	--	--	--	10	4.1
NOV 18...	1	<4.00	3	<0.1	<10	1	<1	<1	51	<6.0	<4.00	2.9
DEC 15...	5	--	--	--	--	2	--	--	--	--	10	4.4
JAN 18...	5	<4.00	6	0.1	<10	1	<1	<1	44	<6.0	<4.00	4.1
MAR 03...	2	--	--	--	--	3	--	--	--	--	10	2.8
APR 15...	4	--	--	--	--	1	--	--	--	--	10	3.6
MAY 23...	<1	<4.00	2	0.1	<10	<1	<1	<1	45	<6.0	<3.00	2.5
JUN 17...	<1	--	--	--	--	3	--	--	--	--	10	4.8
JUL 11...	2	4.00	7	0.7	<10	1	<1	<1	51	<6.0	4.00	4.7
AUG 12...	6	--	--	--	--	1	--	--	--	--	10	4.2
SEP 03...	<1	--	--	--	--	1	--	--	--	--	<10	4.0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	1230	91	14	3.4	58
JAN 18...	1100	5790	7	109	70
MAR 03...	1245	6200	35	586	66
MAY 23...	1400	5970	4	64	92
JUL 11...	1215	58	1	0.16	100
SEP 03...	0921	86	1	0.23	100

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.

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 datum 1.98 ft higher. July 31 to Sept. 27, 1965, nonrecording gage at present site and datum 1.98 ft higher. September 27, 1965 to August 28, 1969, water-stage recorder at present site and datum 1.98 ft higher.

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).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Sept. 26, 1975 (revised); 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 km).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Mar. 19, gage height 4.99 ft (1.521 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 20.

REVISIONS.--Revised maximum discharges in cubic feet per second for 1968-70, 1972-82, are given below. These figures supersede those published in WSP 2101, WRDC 1972-74, and WDR GT-75-1 to 80-1.

Date	Discharge		Date	Discharge		Date	Discharge	
	(ft ³ /s)	(m ³ /s)		(ft ³ /s)	(m ³ /s)		(ft ³ /s)	(m ³ /s)
May 29, 1968	1370	38.8	Dec. 6, 1972	1530	43.3	Jan. 9, 1978	2100	59.5
Aug. 5, 1969	1600	45.3	Dec. 21, 1973	1850	52.4	Mar. 6, 1979	1490	42.2
Apr. 2, 1970	1600	45.3	Sept. 6, 1975	2300	65.1	Mar. 21, 1980	1590	45.0
June 30, 1972	1350	38.2	Jan. 28, 1976	1250	35.4	Feb. 20, 1981	1470	41.6
			Mar. 13, 1977	1420	40.2	June 5, 1982	1510	42.8

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	8.5	19	29	44	41	80	81	71	24	33	4.5
2	6.0	8.2	20	28	45	226	68	74	59	19	24	3.9
3	5.4	8.2	19	27	686	182	147	71	47	19	8.8	3.7
4	5.3	10	20	24	355	111	163	89	136	18	8.8	3.3
5	5.3	41	20	25	203	86	130	76	103	20	5.5	2.8
6	5.3	26	25	44	97	86	144	65	67	38	5.5	2.7
7	5.4	20	23	43	90	154	105	56	60	28	5.2	2.7
8	9.7	17	22	38	77	163	80	59	54	17	4.5	2.7
9	64	16	20	33	62	186	101	68	42	12	4.1	2.7
10	44	16	13	31	57	160	355	58	36	9.6	3.5	2.7
11	21	14	15	488	57	138	400	50	31	7.6	3.9	2.7
12	14	16	14	154	56	266	218	46	27	7.6	11	2.8
13	12	111	13	77	54	144	150	44	24	7.6	6.8	2.4
14	12	42	13	55	52	114	118	41	21	6.3	5.0	2.3
15	11	31	16	51	50	109	85	45	22	5.2	4.5	2.1
16	14	24	103	49	45	107	257	83	25	4.8	4.3	2.1
17	14	24	64	48	46	98	306	101	36	4.8	3.9	2.1
18	9.4	24	37	44	55	88	230	68	27	4.1	7.6	2.1
19	8.5	22	31	37	57	759	516	54	21	4.1	7.3	2.1
20	7.9	20	30	36	50	405	572	65	19	4.1	5.5	2.0
21	9.1	20	29	35	46	497	394	65	17	4.1	4.3	5.0
22	8.5	19	27	39	46	346	328	60	13	4.6	3.7	6.8
23	6.9	19	26	86	46	282	266	147	11	3.5	3.5	5.8
24	6.2	20	28	182	48	179	432	95	9.6	4.3	3.5	5.5
25	8.3	16	33	120	49	105	384	69	7.7	4.8	3.3	3.9
26	14	17	48	81	44	83	294	58	5.5	4.8	3.2	3.5
27	12	20	42	61	40	78	207	150	21	4.3	3.0	3.5
28	11	17	41	51	40	346	138	114	95	4.1	4.5	3.5
29	9.7	30	39	48	---	214	116	80	87	4.1	3.7	3.3
30	8.8	25	36	45	---	120	97	95	41	3.9	4.3	3.9
31	8.5	---	31	44	---	91	---	97	---	3.7	4.5	---
TOTAL	384.1	701.9	917	2153	2597	5964	6881	2324	1235.8	307.0	204.2	99.1
MEAN	12.4	23.4	29.6	69.5	92.8	192	229	75.0	41.2	9.90	6.59	3.30
MAX	64	111	103	488	686	759	572	150	136	38	33	6.8
MIN	5.3	8.2	13	24	40	41	68	41	5.5	3.5	3.0	2.0
CAL YR 1982	TOTAL	19149.7	MEAN	52.5	MAX	869	MIN	5.0				
WTR YR 1983	TOTAL	23768.1	MEAN	65.1	MAX	759	MIN	2.0				

HOUSATONIC RIVER BASIN

01205700 EAST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT

LOCATION.--Lat 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.--13.6 mi² (35.2 km²) rev.

PERIOD OF RECORD.--August 1956 to current year.

REVISED RECORDS.--WSP 1621: 1958(P).

GAGE.--Water-stage recorder. Prior to June 4, 1982, nonrecording gage and crest-stage gage. Datum of gage is 539.26 ft (164.366 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Lake Winchester and by East Branch Detention Reservoir (see p. 232).

AVERAGE DISCHARGE (adjusted for storage since October 1965).--27 years, 24.6 ft³/s (0.697 m³/s), 24.56 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 (24.0 km²).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 299 ft³/s (8.47 m³/s) Mar. 19, gage height 2.31 ft (0.704 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Aug. 22, Sept. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.3	15	17	21	21	33	40	35	12	27	8.2
2	3.0	4.3	16	17	25	95	29	36	27	9.9	16	6.0
3	2.9	4.3	15	16	174	63	65	38	22	11	4.8	5.5
4	3.0	6.0	16	26	138	42	55	57	82	8.2	6.1	4.5
5	3.0	21	15	19	98	38	40	36	40	13	3.6	4.0
6	2.9	13	21	35	47	36	33	30	30	13	2.9	3.8
7	3.0	10	18	26	40	65	30	26	32	8.7	2.6	3.6
8	10	8.5	16	22	36	63	36	30	26	6.6	2.4	3.4
9	27	7.5	12	18	34	85	42	35	20	5.2	2.2	3.2
10	11	7.1	11	23	33	63	112	25	17	4.5	2.0	2.9
11	8.0	11	10	128	32	59	148	21	14	3.8	5.2	8.2
12	6.5	11	9.0	80	30	115	118	19	13	3.3	8.7	14
13	6.2	72	8.5	38	28	61	72	18	11	2.7	3.8	11
14	7.1	33	8.0	32	25	49	44	16	11	2.7	3.1	6.0
15	6.2	25	14	29	22	47	36	23	16	2.4	2.9	3.5
16	5.4	21	70	27	20	44	95	44	15	2.1	2.9	2.0
17	4.8	20	44	26	25	40	131	42	14	2.0	3.1	1.6
18	6.0	18	27	25	32	45	100	26	12	1.9	13	1.6
19	4.8	17	23	24	26	196	161	21	11	1.8	6.6	1.6
20	4.3	16	22	23	21	161	188	32	9.9	1.7	5.0	1.7
21	4.3	16	21	22	22	167	164	26	8.7	1.6	4.0	14
22	4.3	15	20	22	23	141	148	25	7.1	1.6	3.3	9.3
23	4.8	15	19	52	23	124	131	72	6.1	2.0	3.0	3.1
24	4.3	15	22	90	25	92	161	45	4.8	5.6	2.8	2.4
25	6.8	16	25	57	22	45	148	33	4.1	2.9	2.7	2.1
26	8.0	14	32	38	20	36	134	30	4.1	2.2	2.7	2.0
27	6.2	15	25	30	18	38	112	87	17	2.0	5.2	1.8
28	5.1	13	23	26	18	118	63	47	63	2.1	15	1.8
29	4.6	25	22	23	---	70	51	36	33	2.0	11	1.8
30	4.6	18	20	21	---	45	49	57	17	2.0	9.9	4.1
31	4.6	---	18	22	---	38	---	45	---	1.8	8.7	---
TOTAL	186.4	492.0	637.5	1054	1078	2302	2729	1118	622.8	142.3	192.2	138.7
MEAN	6.01	16.4	20.6	34.0	38.5	74.3	91.0	36.1	20.8	4.59	6.20	4.62
MAX	27	72	70	128	174	196	188	87	82	13	27	14
MIN	2.9	4.3	8.0	16	18	21	29	16	4.1	1.6	2.0	1.6
(†)	0	0	0	0	0	0	+2	-1	0	-4	-7	-3
MEAN‡	6.01	16.4	20.6	34.0	38.5	74.3	91.2	36.0	20.8	4.19	5.50	4.32
CFSM‡	0.44	1.21	1.51	2.50	2.83	5.46	6.71	2.65	1.53	0.31	0.40	0.32
IN ‡	0.51	1.35	1.74	2.88	2.95	6.30	7.49	3.06	1.71	0.36	0.46	0.36

CAL YR 1982 TOTAL 9097.2 MEAN 24.9 MAX 254 MIN 2.9 MEAN‡ 24.9 CFSM‡ 1.83 IN‡ 24.88
WTR YR 1983 TOTAL 10692.9 MEAN 29.3 MAX 196 MIN 1.6 MEAN‡ 29.2 CFSM‡ 2.15 IN‡ 29.17

† 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

219

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).

RAINAGE AREA.--99.8 mi² (258.5 km²) rev.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR CT-76-1: 1975.

AGE.--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. 232).

AVERAGE DISCHARGE (adjusted for storage).--24 years, 201 ft³/s (5.692 m³/s), 27.52 in/yr (699 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, 2,740 ft³/s (77.6 m³/s) Mar. 24, gage height, 5.57 ft (1.698 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 19, 20, gage height, 1.54 ft (0.469 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	32	85	96	182	186	314	332	327	92	24	21
2	25	31	79	92	130	505	274	298	237	77	101	20
3	22	30	75	87	521	638	138	281	193	71	34	18
4	21	32	77	75	1280	614	596	359	413	65	33	17
5	21	144	75	79	1510	550	820	306	483	111	28	16
6	23	101	81	189	1020	473	452	255	306	130	85	16
7	22	73	83	163	323	457	327	222	230	87	45	16
8	27	60	73	133	293	437	298	211	196	65	26	16
9	124	53	65	111	258	715	389	293	160	55	22	15
10	147	50	58	101	230	835	207	222	136	48	20	14
11	65	48	58	590	211	561	909	193	121	42	21	14
12	48	51	57	670	205	527	1970	176	108	39	67	14
13	42	207	51	602	200	651	1670	169	96	36	51	19
14	48	399	56	488	195	756	408	157	87	33	31	14
15	44	189	64	200	190	544	281	160	116	31	25	14
16	41	111	163	175	189	354	214	251	154	29	23	13
17	41	96	422	160	189	319	608	345	121	26	21	14
18	36	87	218	155	255	226	1470	226	98	24	32	14
19	32	81	124	150	237	169	1270	176	113	24	33	13
20	30	75	113	145	200	683	1310	222	121	25	26	13
21	30	71	108	140	189	763	2420	222	89	26	20	15
22	31	71	101	140	203	1230	2010	182	75	25	18	75
23	29	69	96	262	214	2380	1110	418	64	23	18	29
24	26	69	106	702	222	2570	306	408	58	38	18	23
25	29	67	127	620	207	1940	880	366	50	37	17	20
26	77	62	182	457	189	527	2030	207	45	28	16	17
27	60	67	141	258	169	314	1280	505	69	24	16	16
28	44	62	130	203	169	596	510	538	285	22	47	16
29	38	136	127	189	---	784	422	302	262	22	32	16
30	34	113	113	172	---	842	385	363	207	21	25	17
31	33	---	101	189	---	442	---	432	---	20	23	---
TOTAL	1318	2737	3409	7793	9380	22588	25278	8737	5020	1396	998	555
EAN	42.5	91.2	110	251	335	729	843	282	167	45.0	32.2	18.5
AX	147	399	422	702	1510	2570	2420	538	483	130	101	75
IN	21	30	51	75	130	169	138	157	45	20	16	13
†)	0	+1.8	+1.7	+6	0	+1.1	-4.4	+2.2	-2.9	-0.8	-0.9	-0.3
MEAN†	42.5	93.0	112	252	335	730	839	284	164	44.2	31.3	18.2
CFSM†	0.43	0.93	1.12	2.53	3.36	7.31	8.41	2.85	1.64	0.44	0.31	0.18
IN †	0.50	1.04	1.29	2.92	3.50	8.43	9.38	3.29	1.83	0.51	0.36	0.20

AL YR 1982 TOTAL 77806 MEAN 213 MAX 2490 MIN 18 MEAN† 213 CFSM† 2.13 IN† 29.04
TR YR 1983 TOTAL 89209 MEAN 244 MAX 2570 MIN 13 MEAN† 244 CFSM† 2.44 IN† 33.25

Change in contents, equivalent in cubic feet per second, in Thomaston, Hall Meadow Brook and East Branch Detention Reservoir, 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.--20.8 mi² (53.9 km²) rev.

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 good. 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. 232).

AVERAGE DISCHARGE.--12 years, 36.6 ft³/s (1.037 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 805 ft³/s (22.8 m³/s) June 8, 1982, gage height, 4.07 ft (1.241 m); minimum, 0.34 ft³/s (0.010 m³/s) Nov. 17, 1980 (reg.).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 755 ft³/s (21.4 m³/s) Mar. 22, gage height 3.97 ft (1.210 m); minimum, 0.54 ft³/s (0.015 m³/s) Aug. 10, gage height, 0.82 ft (0.250 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	32	18	50	48	56	50	57	9.0	5.0	.82
2	4.4	11	24	18	32	131	53	49	47	12	5.0	.74
3	4.4	11	3.8	20	145	170	33	44	46	11	4.7	.74
4	4.1	11	2.4	23	400	80	182	46	105	14	5.0	.74
5	4.1	25	2.6	14	400	82	73	44	95	32	5.0	.82
6	4.1	29	2.8	7.6	74	73	56	45	88	22	6.8	.74
7	4.7	28	2.6	5.0	50	108	54	44	61	18	2.0	.74
8	5.4	25	2.2	3.5	40	97	45	46	55	18	.74	.74
9	8.5	13	2.2	3.0	35	207	67	47	26	17	.61	.74
10	10	2.6	2.0	3.0	30	131	50	44	43	17	.55	.91
11	8.1	2.4	2.0	86	29	120	378	44	72	17	1.6	.74
12	5.7	2.6	2.0	20	27	160	443	43	39	17	6.4	.82
13	7.2	18	2.0	12	26	153	86	43	14	17	3.8	.82
14	14	5.4	2.0	18	25	77	67	43	13	16	3.3	.74
15	19	3.0	2.2	33	24	63	57	43	45	11	3.3	.74
16	22	18	39	32	24	55	143	48	44	10	2.8	.91
17	22	39	35	29	30	53	412	46	43	10	.82	1.1
18	26	39	35	27	49	41	278	42	42	10	.82	1.1
19	32	23	35	25	48	32	135	41	39	8.5	.74	1.0
20	33	2.4	33	22	42	199	382	43	26	6.1	.67	1.0
21	33	2.2	28	17	38	225	404	41	14	3.3	.67	1.2
22	33	2.2	26	16	40	412	113	40	13	.91	.67	1.6
23	35	2.2	18	40	44	659	84	45	13	.82	.74	1.0
24	35	2.4	19	69	55	334	49	25	12	1.2	.74	1.0
25	36	2.4	20	89	48	73	342	32	11	.91	.61	1.0
26	37	2.4	22	67	46	56	239	40	11	.74	.61	1.0
27	28	2.4	19	51	46	54	85	65	11	.61	.67	1.0
28	20	2.6	19	48	46	199	67	50	20	.61	.67	1.0
29	20	8.1	19	48	---	177	55	48	12	1.4	.67	1.0
30	20	32	18	48	---	77	55	61	8.5	5.7	.74	1.2
31	20	---	18	53	---	57	---	81	---	5.4	.74	---
TOTAL	568.7	384.3	489.8	965.1	1943	4403	4543	1423	1125.5	314.20	67.18	27.70
MEAN	18.3	12.8	15.8	31.1	69.4	142	151	45.9	37.5	10.1	2.17	.92
MAX	37	39	39	89	400	659	443	81	105	32	6.8	1.6
MIN	4.1	2.2	2.0	3.0	24	32	33	25	8.5	.61	.55	.74
CAL YR 1982 TOTAL	13606.40			MEAN 37.3	MAX 679	MIN 1.7						
WTR YR 1983 TOTAL	16254.48			MEAN 44.5	MAX 659	MIN .55						

HOUSATONIC RIVER BASIN

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01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT

LOCATION.--Lat 41°36'25", long 73°03'30", New Haven County, Hydrologic Unit 01100005, at Frost Bridge 1.8 mi (2.9 km) north of Waterville and 2.4 mi (3.9 km) south of Branch Brook.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--October 5, 1967, published as "near Waterbury," October 1980 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharges for station 01206900, 5.2 mi (8.4 km) north and station 01208013, 2.4 mi (3.9 km) north, adding the discharges for these stations, and multiplying by a factor of 1.13, which is the ratio of the total drainage areas for these sites to the drainage area for station 01208049.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 21...	1210	71	218	7.5	18.0	13.5	5.0	11.8	112	K16
NOV 16...	1025	122	124	7.1	5.0	8.0	2.0	14.7	122	1100
DEC 15...	1315	73	254	7.5	6.0	1.0	0.8	15.1	105	35
JAN 11...	1030	786	118	7.1	13.0	4.0	7.3	14.3	110	4300
MAR 08...	1300	668	105	6.9	4.0	3.0	3.3	13.7	101	1600
APR 13...	1300	1800	90	6.8	20.0	9.0	2.6	12.2	104	620
MAY 16...	1415	319	137	7.1	9.0	13.5	0.9	10.1	97	90
JUN 13...	1020	122	139	7.1	31.0	21.0	1.4	9.2	102	K8
JUL 18...	1000	33	260	7.7	30.0	27.0	1.6	10.1	128	K10
AUG 08...	1145	30	181	7.2	30.5	27.0	1.3	8.4	105	760
SEP 03...	1530	20	350	8.8	31.5	27.0	1.1	10.6	132	40

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 LAB (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 21...	<1	--	--	--	--	--	20	28	--	140
NOV 16...	900	33	18	8.6	2.7	15	14	16	6.8	85
DEC 15...	92	--	--	--	--	--	22	33	--	144
JAN 11...	17000	28	16	7.4	2.3	12	12	13	5.4	74
MAR 08...	940	--	--	--	--	--	14	14	--	73
APR 13...	5000	--	--	--	--	--	8.0	10	--	54
MAY 16...	110	31	16	8.2	2.5	15	13	17	4.5	102
JUN 13...	72	--	--	--	--	--	16	18	--	90
JUL 18...	1400	61	38	19	3.3	23	20	46	4.2	178
AUG 08...	7800	--	--	--	--	--	18	27	--	126
SEP 03...	800	--	--	--	--	--	27	11	--	198

HOUSATONIC RIVER BASIN

01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 21...	48	0.19	26.7	141	2.8	0.09	2.9	0.42	0.18	0.6
NOV 16...	57	0.12	28.0	94	0.88	0.02	0.9	0.22	0.58	0.8
DEC 15...	55	0.2	28.2	145	1.8	0.06	1.9	0.71	0.89	1.60
JAN 11...	48	0.1	157	--	0.77	0.03	0.8	0.35	0.35	0.7
MAR 08...	28	0.1	132	78	0.49	0.01	0.5	0.15	0.15	0.3
APR 13...	18	0.07	262	62	0.38	0.02	0.4	0.08	0.32	0.4
MAY 16...	54	0.14	87.9	101	0.47	0.03	0.5	0.22	0.38	0.6
JUN 13...	34	0.12	29.6	98	0.66	0.04	0.7	0.19	0.31	0.5
JUL 18...	106	0.24	16.1	182	2.2	0.09	2.3	0.11	0.89	1.00
AUG 08...	45	0.17	10.3	124	1.2	0.03	1.2	0.27	0.73	1.00
SEP 03...	38	0.27	10.5	226	3.6	0.14	3.7	0.19	1.2	1.40

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 21...	3.5	0.22	0.23	2	<1	3	<1	36	22	390
NOV 16...	1.7	0.13	0.10	<1	<1	1	<1	14	8	410
DEC 15...	3.5	0.28	0.25	1	2	10	<1	16	14	300
JAN 11...	1.5	0.34	0.34	2	2	12	5	24	9	1900
MAR 08...	0.8	0.06	0.03	1	1	<1	<1	8	3	380
APR 13...	0.8	0.06	0.01	1	1	8	1	14	23	470
MAY 16...	1.1	0.09	0.07	<1	1	6	<1	12	21	380
JUN 13...	1.2	0.12	0.06	1	1	10	7	17	11	570
JUL 18...	3.3	0.21	0.16	2	1	19	<1	22	18	580
AUG 08...	2.2	0.14	0.14	1	1	<1	<1	14	12	480
SEP 03...	5.1	0.25	0.20	1	1	1	<1	21	11	460

HOUSATONIC RIVER BASIN

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01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	--	12	1	--	17	14	30	20	5.6
NOV 16...	150	5.00	2	43	11	12	50	37	5.1
DEC 15...	--	8.00	7	--	14	10	40	20	3.5
JAN 11...	110	14	5	62	8.00	5	70	17	5.7
MAR 08...	--	15	3	--	5.00	6	70	30	3.1
APR 13...	--	6.00	6	--	8.00	5	30	20	3.8
MAY 16...	130	2.00	2	71	9.00	6	30	20	2.9
JUN 13...	--	6.00	2	--	11	9	50	10	3.3
JUL 18...	40	9.00	2	30	15	2	30	21	4.3
AUG 08...	--	8.00	2	--	8.00	4	30	30	4.5
SEP 03...	--	6.00	1	--	11	8	30	10	5.9

HOUSATONIC RIVER BASIN

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. 232).

AVERAGE DISCHARGE.--14 years, 36.0 ft³/s (1.020 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, 456 ft³/s (12.9 m³/s) Mar. 22 gage height, 3.74 ft (1.140 m); minimum, 0.10 ft³/s (0.003 m³/s) Sept. 11, 12, gage height, 1.16 ft (0.354 m).

REVISIONS.--The daily, total, mean, and maximum discharges for February 1982 and the 1982 water year, and the peak instantaneous discharge for the 1982 water year, have been revised, superseding figures published in the report for the 1982 water year:

Discharge in cubic feet per second

Day	February 1982	Water Year 1982
1	Total 1,760	13,511.4
2	Mean 62.9	37.0
	Max 297	418

Maximum discharge, 500 ft³/s (14.2 m³/s) June 8, gage height, 3.85 ft (1.173 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	8.0	16	14	54	44	56	56	54	9.9	3.7	1.5
2	5.0	7.8	14	14	48	132	51	52	41	8.8	3.8	1.0
3	4.7	7.6	13	14	141	86	30	48	34	7.9	3.8	.70
4	5.0	8.1	13	12	200	57	153	55	104	6.9	3.8	.53
5	4.5	32	13	10	270	63	137	46	69	7.6	3.8	.45
6	3.8	18	13	31	129	53	59	38	44	13	3.5	.39
7	4.1	12	12	25	61	90	54	33	36	8.4	3.7	.33
8	5.0	10	11	20	50	76	68	32	31	6.7	3.0	.25
9	19	9.0	10	16	40	165	98	47	25	5.3	42	.20
10	9.9	8.2	10	16	35	113	96	32	22	5.0	3.9	.16
11	7.8	7.8	9.5	169	33	88	308	28	21	5.0	2.0	.13
12	7.0	7.9	9.0	173	32	127	390	27	19	5.0	21	.27
13	6.9	60	8.5	112	30	91	138	25	17	4.8	11	.21
14	8.6	112	8.5	38	29	64	80	23	15	4.7	5.0	.30
15	7.7	26	8.0	34	28	57	71	26	14	4.6	3.4	.33
16	6.9	19	37	32	28	51	113	37	13	4.7	2.5	.24
17	6.1	16	28	30	32	46	314	53	12	4.7	2.1	.17
18	5.2	15	9.5	28	60	34	362	30	11	4.4	4.0	.17
19	5.3	13	10	27	55	20	204	24	10	4.4	4.1	.19
20	5.5	13	10	25	45	128	280	28	10	4.4	2.6	.16
21	7.1	12	12	24	42	132	147	28	9.4	4.5	1.8	.48
22	6.8	12	15	22	47	266	96	24	8.6	4.2	1.4	1.9
23	6.1	12	15	47	53	440	81	80	7.5	3.7	1.5	4.0
24	6.0	11	18	146	56	412	45	55	6.3	5.0	1.4	3.8
25	8.4	10	23	93	49	180	222	50	5.6	4.6	.96	3.8
26	32	10	29	59	43	65	329	32	5.0	4.5	.77	3.0
27	15	9.8	21	45	36	63	94	97	8.7	4.5	.66	.92
28	11	9.1	19	37	38	163	78	62	39	4.1	1.1	.61
29	9.1	33	18	34	---	155	67	42	30	4.1	1.9	.46
30	8.5	21	17	33	---	73	62	82	15	3.9	1.8	.79
31	8.1	---	15	63	---	62	---	87	---	4.1	1.7	---
TOTAL	252.2	550.3	465.0	1443	1764	3596	4283	1379	737.1	173.4	147.69	27.44
MEAN	8.14	18.3	15.0	46.5	63.0	116	143	44.5	24.6	5.59	4.76	.91
MAX	32	112	37	173	270	440	390	97	104	13	42	4.0
MIN	3.8	7.6	8.0	10	28	20	30	23	5.0	3.7	.66	.13

CAL YR 1982 TOTAL 12484.40 MEAN 34.2 MAX 418 MIN 2.8
WTR YR 1983 TOTAL 14818.13 MEAN 40.6 MAX 440 MIN .13

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.--260 mi² (673 km²) rev.

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. 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. 232), 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).--61 years, 1918-24, 1928-83, 500 ft³/s (14.16 m³/s). 26.12 in/yr (663 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 (1.13 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, 7,750 ft³/s (219 m³/s) Mar. 19, gage height, 9.45 ft (2.880 m); minimum, 65 ft³/s (1.84 m³/s) Sept. 11, 17-19, gage height, 1.16 ft (0.354 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	146	304	313	739	705	1170	1300	1200	326	104	89
2	122	140	273	304	719	1840	1070	1140	888	300	175	85
3	107	136	242	300	3250	1950	1520	1050	734	282	153	79
4	110	142	229	291	3000	1620	1680	1230	1660	237	115	74
5	107	417	218	276	3080	1560	2020	1120	1530	316	119	74
6	102	371	216	505	2210	1350	1430	927	1140	479	134	76
7	102	253	229	512	1310	1640	1140	802	838	322	237	77
8	110	221	208	424	1090	1790	1210	764	724	259	122	76
9	313	196	201	371	894	2310	1500	1020	608	221	142	74
10	279	170	189	352	769	2270	2800	808	532	193	102	72
11	213	164	177	2780	705	2000	3680	714	543	182	117	70
12	155	161	177	1910	709	2210	4000	672	486	172	392	73
13	142	1020	157	1480	764	2080	2820	642	428	166	267	85
14	155	844	155	1200	695	1790	1620	612	378	157	151	77
15	149	621	172	700	655	1610	1350	638	378	146	121	73
16	140	368	547	670	638	1200	2500	838	520	136	107	72
17	138	256	739	600	700	1070	3800	1090	431	119	99	70
18	142	310	608	550	700	1210	3330	780	392	119	134	70
19	144	288	361	509	700	5240	4020	650	358	132	122	71
20	146	239	338	486	724	2920	3550	700	413	126	105	75
21	166	221	322	480	695	3590	4290	724	329	121	88	79
22	149	220	307	470	719	3170	3360	633	294	136	88	304
23	144	215	297	759	780	4480	2560	1400	262	104	98	134
24	138	210	332	1810	838	4450	3040	1210	245	234	85	99
25	175	196	368	1570	775	3190	3080	1000	218	175	84	89
26	382	184	472	1290	709	1820	3890	734	196	140	83	81
27	259	184	424	901	642	1330	2860	1610	273	124	79	77
28	198	179	378	705	642	2780	1780	1580	744	115	124	75
29	172	392	371	659	---	2290	1530	1020	714	105	142	74
30	157	371	352	625	---	2050	1420	1460	528	117	112	104
31	146	---	326	802	---	1510	---	1570	---	119	93	---
TOTAL	5100	8835	9689	24604	29851	69025	74020	30438	17984	5880	4094	2628
MEAN	165	295	313	794	1066	2227	2467	982	599	190	132	87.6
MAX	382	1020	739	2780	3250	5240	4290	1610	1660	479	392	304
MIN	102	136	155	276	638	705	1070	612	196	104	79	70
(†)	-48.6	-25.8	-18.0	+0.6	-15.1	+4.4	-3.6	-9.2	-33.9	-39.6	-39.7	-39.6
MEAN†	116	269	295	795	1051	2231	2463	973	56.5	150	92.3	48.0
CFSM†	0.45	1.03	1.13	3.06	4.04	8.58	9.47	3.74	2.17	0.58	0.36	0.18
IN ‡	0.52	1.15	1.30	3.53	4.21	9.89	10.57	4.31	2.42	0.67	0.42	0.20

CAL YR 1982 TOTAL 230142 MEAN 631 MAX 6140 MIN 102 MEAN† 605 CFSM† 2.33 IN† 31.48
WTR YR 1983 TOTAL 282148 MEAN 773 MAX 5240 MIN 70 MEAN† 755 CFSM† 2.90 IN† 39.19

† Change in contents in Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes, and diversion from Shepaug Reservoir, equivalent in cubic feet per second; contents furnished by city of Waterbury and Corps of Engineers, and diversion figures furnished by city of Waterbury.

‡ Adjusted for diversion and change in contents.

HOUSATONIC RIVER BASIN

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1953, 1958, published as "near Naugatuck," 1961, 1963, 1966, 1968, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1965 to October 1967.

WATER TEMPERATURES: September 1965 to October 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,150 micromhos July 8, 1966; minimum recorded, 100 micromhos Apr. 2, 3, May 26, 1967.

WATER TEMPERATURES: Maximum, 30.5°C July 3, 1966, Apr. 5, 1967; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 21...	1045	182	427	7.4	17.0	15.5	9.0	12.8	125	16000
NOV 16...	1115	370	208	7.3	7.5	7.0	2.0	11.3	90	7400
DEC 15...	1210	177	410	7.6	5.5	2.5	2.2	14.7	106	5500
JAN 11...	1150	2920	135	7.0	14.0	5.0	12	13.4	106	16000
MAR 08...	1200	1580	155	7.0	4.0	4.0	5.5	13.6	103	6800
APR 13...	1200	2920	106	6.9	14.0	10.0	3.6	12.2	106	20000
MAY 16...	1320	755	170	7.5	10.0	13.5	1.2	10.2	97	260
JUN 13...	1215	440	237	7.3	32.5	22.5	1.5	9.8	111	40
JUL 18...	1130	113	390	7.4	31.0	27.0	3.3	9.9	125	110
AUG 08...	1310	119	321	7.8	32.0	27.5	1.3	9.9	124	900
SEP 02...	1711	88	690	8.2	27.5	26.0	1.2	10.4	125	150

DATE	TIME	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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 21...	3700	--	--	--	--	--	--	33	63	--	245
NOV 16...	3700	47	31	14	2.9	16	21	29	7.6	125	125
DEC 15...	21000	--	--	--	--	--	--	42	57	--	242
JAN 11...	30000	28	17	7.8	2.0	11	16	16	5.5	85	85
MAR 08...	2500	--	--	--	--	--	--	18	22	--	76
APR 13...	80	--	--	--	--	--	--	12	13	--	67
MAY 16...	320	39	24	11	2.7	15	17	22	5.8	109	109
JUN 13...	25	--	--	--	--	--	--	27	37	--	135
JUL 18...	26	71	50	22	4.0	21	41	68	6.9	248	248
AUG 08...	13000	--	--	--	--	--	--	31	48	--	183
SEP 02...	8300	--	--	--	--	--	--	40	110	--	402

HOUSATONIC RIVER BASIN

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01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 21...	96	0.33	120	255	2.1	0.06	2.2	2.50	1.4	3.90
NOV 16...	85	0.17	125	144	1.5	0.03	1.5	1.00	0.7	1.70
DEC 15...	100	0.33	116	263	3.7	0.07	3.8	2.80	0.2	3.00
JAN 11...	54	0.12	670	--	0.87	0.03	0.9	0.39	--	--
MAR 08...	40	0.1	324	101	0.68	0.02	0.7	0.47	0.13	0.6
APR 13...	25	0.09	528	74	0.48	0.02	0.5	0.18	0.42	0.6
MAY 16...	68	0.15	222	123	0.75	0.05	0.8	0.75	0.55	1.30
JUN 13...	64	0.18	160	158	0.98	0.12	1.1	0.77	0.93	1.70
JUL 18...	155	0.34	75.7	246	2.4	0.50	2.9	2.00	1.7	3.70
AUG 08...	79	0.25	58.8	222	2.5	0.44	2.9	1.30	1.1	2.40
SEP 02...	150	0.55	95.7	405	3.7	0.45	4.1	1.60	1.2	2.80

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 21...	6.1	0.81	0.52	4	2	7	<1	110	39	1000
NOV 16...	3.2	0.44	0.34	<1	<1	4	<1	57	39	530
DEC 15...	6.8	0.64	0.45	2	3	36	6	150	1080	540
JAN 11...	0.9	0.81	0.81	2	2	10	11	130	22	3700
MAR 08...	1.3	0.15	0.10	2	1	1	<1	35	19	570
APR 13...	1.1	0.11	0.07	<1	<1	3	7	35	20	560
MAY 16...	2.1	0.20	0.10	1	2	5	<1	39	36	520
JUN 13...	2.8	0.25	0.17	1	2	10	<1	53	39	660
JUL 18...	6.6	0.87	0.66	2	2	<1	<1	85	32	690
AUG 08...	5.3	0.67	0.57	3	1	6	<1	51	21	680
SEP 02...	6.9	1.20	0.90	2	1	1	<1	83	34	640

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	--	17	2	--	70	45	150	80	11
NOV 16...	190	8.00	2	94	30	33	100	50	5.4
DEC 15...	--	21	10	--	190	120	150	110	6.8
JAN 11...	140	31	3	80	20	14	130	26	8.2
MAR 08...	--	13	2	--	13	15	80	50	3.5
APR 13...	--	41	7	--	11	10	50	30	4.1
MAY 16...	190	7.00	5	110	22	9	50	35	4.4
JUN 13...	--	9.00	<1	--	13	11	220	40	4.7
JUL 18...	63	10	9	250	57	33	70	32	8.3
AUG 08...	--	11	1	--	51	24	100	30	5.2
SEP 02...	--	100	<1	--	48	43	80	20	7.4

HOUSATONIC RIVER BASIN

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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.

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION (%)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)
OCT 21...	0940	403	7.0	18.0	15.5	10	8.2	80	280000	82000	--	--
NOV 16...	1315	210	7.2	8.0	9.0	2.0	11.2	94	400000	82000	42	27
DEC 15...	1030	375	7.5	5.0	2.0	1.7	13.2	94	120000	42000	--	--
JAN 11...	1250	116	6.9	13.0	6.5	31	13.6	111	18000	60000	22	14
MAR 08...	1100	160	7.1	4.0	3.0	5.8	13.2	97	12000	6200	--	--
APR 13...	1010	104	6.9	12.0	9.0	4.5	11.8	99	14000	10000	--	--
MAY 16...	1200	182	6.9	10.5	14.0	1.3	10.6	102	130	<1	38	23
JUN 13...	1330	218	7.2	31.0	24.0	1.4	9.8	114	180	600	--	--
JUL 18...	1245	375	8.3	33.0	28.0	2.0	10.9	138	51	200	71	38
AUG 08...	1410	350	7.8	36.5	28.5	1.1	10.4	132	480	1700	--	--
SEP 02...	1600	490	7.8	27.0	25.0	1.4	9.0	107	100	1200	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT 21...	--	--	--	36	55	--	257	91	0.35	270	3.0	0.17
NOV 16...	12	2.9	15	21	27	7.8	122	80	0.17	140	1.2	0.05
DEC 15...	--	--	--	37	51	--	216	88	0.29	235	3.1	0.06
JAN 11...	6.3	1.6	8.0	13	13	5.0	78	44	0.11	--	0.76	0.04
MAR 08...	--	--	--	19	22	--	78	41	0.11	109	0.29	<0.01
APR 13...	--	--	--	10	12	--	61	22	0.08	80	0.48	0.02
MAY 16...	11	2.6	15	22	26	6.3	106	78	0.14	128	0.94	0.06
JUN 13...	--	--	--	26	31	--	132	57	0.18	146	1.2	0.09
JUL 18...	22	3.8	33	41	66	6.8	229	160	0.31	227	2.5	0.16
AUG 08...	--	--	--	38	49	--	199	87	0.27	220	3.0	0.10
SEP 02...	--	--	--	56	71	--	293	127	0.4	304	4.8	0.17

HOUSATONIC RIVER BASIN

01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO ₂ +NO ₃ 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)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 21...	3.2	3.70	1.3	5.00	8.2	0.81	0.54	4	2	6	<1	79
NOV 16...	1.2	1.80	0.8	2.60	3.8	0.45	0.35	<1	<1	7	<1	53
DEC 15...	3.2	3.50	1.5	5.00	8.2	0.78	0.61	1	2	31	4	160
JAN 11...	0.8	0.51	1.4	1.90	2.7	0.71	0.19	2	2	24	4	370
MAR 08...	0.3	0.49	0.41	0.9	1.2	0.16	0.20	2	1	2	1	31
APR 13...	0.5	0.26	0.44	0.7	1.2	0.05	0.07	1	1	<1	<1	38
MAY 16...	1.0	0.65	0.45	1.10	2.1	0.17	0.10	1	1	<1	<1	210
JUN 13...	1.3	0.55	0.45	1.00	2.3	0.28	0.21	1	2	12	<1	82
JUL 18...	2.7	0.12	1.2	1.30	4.0	0.31	0.24	2	2	<1	<1	87
AUG 08...	3.1	0.55	0.95	1.50	4.6	0.42	0.39	1	1	<1	2	120
SEP 02...	5.0	0.25	1.8	2.00	7.0	0.78	0.49	2	2	9	<1	120

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	26	750	--	13	1	--	79	43	140	90	11
NOV 16...	36	530	200	8.00	2	89	40	38	90	53	6.7
DEC 15...	58	530	--	19	9	--	40	44	110	80	7.5
JAN 11...	25	8700	180	170	4	80	42	10	220	5.00	9.2
MAR 08...	16	440	--	8.00	3	--	13	12	80	40	4.6
APR 13...	19	640	--	6.00	8	--	12	8	60	40	3.7
MAY 16...	170	550	200	8.00	6	150	24	10	90	78	4.4
JUN 13...	48	620	--	6.00	<1	--	19	13	10	60	3.9
JUL 18...	58	410	70	11	1	44	42	22	110	71	8.2
AUG 08...	50	360	--	10	2	--	33	21	60	30	6.7
SEP 02...	50	490	--	11	<1	--	39	33	60	30	7.8

HOUSATONIC RIVER BASIN

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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.

REMARKS.--Stream tidal and salinity affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	SALINITY (PPT)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)
NOV 16...	1420	16100	6.9	9.0	7.5	11.0	1.0	11.0	96	2500	660	1700
JAN 11...	1415	802	7.7	1.0	12.0	4.0	3.2	14.0	109	1700	3000	140
MAY 23...	1245	8270	7.7	6.0	21.0	15.0	2.2	10.2	100	160	250	920
JUL 11...	1410	36000	7.7	24.0	26.0	19.0	0.5	6.4	77	K11	48	4500

DATE	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM, DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY, LAB (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)
NOV 16...	1600	110	340	75	720	4800	2.4	9740	6020	13.2	10400	0.38
JAN 11...	66	25	18	71	37	180	3.7	438	306	0.6	457	0.68
MAY 23...	860	72	180	63	400	--	3.3	6240	693	8.5	6480	0.68
JUL 11...	4400	280	930	93	2000	1500	1.1	27200	4770	37.0	29300	0.09

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	CADMIUM, TOTAL RECOVERABLE (UG/L AS Cd)	CADMIUM, DIS-SOLVED (UG/L AS Cd)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS Cr)	CHROMIUM, DIS-SOLVED (UG/L AS Cr)
NOV 16...	0.02	0.4	0.24	0.00	0.2	0.6	0.10	0.07	<1	1	<1	<1
JAN 11...	0.02	0.7	0.29	0.00	--	0.8	0.19	0.19	3	2	6	14
MAY 23...	0.02	0.7	0.19	0.31	0.5	1.2	0.09	0.05	1	2	<1	2
JUL 11...	<0.01	<0.1	0.08	0.32	0.4	0.5	0.08	0.08	1	1	<1	<1

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS Cu)	COPPER, DIS-SOLVED (UG/L AS Cu)	IRON, TOTAL RECOVERABLE (UG/L AS Fe)	IRON, DIS-SOLVED (UG/L AS Fe)	LEAD, TOTAL RECOVERABLE (UG/L AS Pb)	LEAD, DIS-SOLVED (UG/L AS Pb)	MANGANESE, DIS-SOLVED (UG/L AS Mn)	NICKEL, TOTAL RECOVERABLE (UG/L AS Ni)	NICKEL, DIS-SOLVED (UG/L AS Ni)	ZINC, TOTAL RECOVERABLE (UG/L AS Zn)	ZINC, DIS-SOLVED (UG/L AS Zn)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	26	12	450	40	3.00	1	30	8.00	4	40	30	3.5
JAN 11...	40	17	720	41	10	2	27	8.00	8	60	5.00	4.3
MAY 23...	41	16	480	40	5.00	1	50	14	4	50	20	3.2
JUL 11...	13	6	300	170	10	7	80	5.00	8	20	30	1.4

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 1982 TO SEPTEMBER 1983

Date	01201000 LAKE CANDLEWOOD	01201999 CAIRNS RESERVOIR	01202000 SHEPAUG RESERVOIR	01203500 LAKE LILLINONAH	01205000 LAKE ZOAR	01205560 HALL MEADOW BROOK DETENTION RESERVOIR	01205610 LAKE WINCHESTER
Sept. 30, 1982....	5535	300	83.0	1507	276.1	0.5	116.2
Oct. 31.....	5416	286	74.6	1334	294.1	0.5	116.2
Nov. 30.....	5416	304	91.7	1582	280.6	5.1	116.2
Dec. 31.....	5016	332	96.1	1521	271.6	9.6	116.2
Jan. 31, 1983....	5274	360	96.1	1433	240.2	10.5	116.2
Feb. 28.....	5547	360	96.1	1426	303.3	10.5	116.2
Mar. 31.....	6016	360	96.1	1544	335.4	12.9	116.2
Apr. 30.....	6028	360	96.1	1404	340.0	1.6	116.2
May 31.....	6040	360	96.1	1613	289.6	1.5	116.2
June 30.....	5630	360	96.1	1462	307.9	0.9	116.2
July 31.....	5630	352	51.7	1605	303.3	0.5	116.2
Aug. 31.....	5559	300	36.2	1484	326.2	0.4	115.1
Sept. 30.....	5535	180	62.6	1477	289.6	0.4	113.2

Date	01205650 EAST BRANCH DETENTION RESERVOIR	01206600 THOMASTON RESERVOIR	01206940 NORTHFIELD BROOK LAKE	01207000 PITCH RESERVOIR	01207500 MORRIS RESERVOIR
Sept. 30, 1982....	0.0	0.5	3.7	157.8	215.0
Oct. 31.....	0.0	0.6	4.9	189.9	194.9
Nov. 30.....	0.1	0.7	5.0	189.8	229.4
Dec. 31.....	0.1	0.7	5.0	178.5	251.8
Jan. 31, 1983....	0.1	1.5	5.0	187.7	265.6
Feb. 28.....	0.1	1.5	5.1	185.6	265.6
Mar. 31.....	0.2	1.9	5.2	187.5	265.6
Apr. 30.....	0.6	1.5	5.1	187.5	265.6
May 31.....	0.2	8.0	5.2	188.3	265.6
June 30.....	0.1	1.2	4.8	186.4	246.2
July 31.....	0.1	0.5	4.8	189.0	230.2
Aug. 31.....	0.0	0.2	4.9	188.5	215.2
Sept. 30.....	0.1	0.2	4.6	189.0	216.8

Date	01208000 WIGWAM RESERVOIR	01208011 BLACK ROCK LAKE	01208130 HANCOCK BROOK LAKE	01208410 HOP BROOK LAKE
Sept. 30, 1982....	98.3	13.1	5.4	0.8
Oct. 31.....	76.8	13.4	4.6	0.8
Nov. 30.....	77.8	13.1	4.6	0.8
Dec. 31.....	81.2	13.3	4.6	5.6
Jan. 31, 1983....	93.1	13.6	4.9	6.1
Feb. 28.....	94.2	13.6	4.9	5.8
Mar. 31.....	98.3	13.6	7.5	6.1
Apr. 30.....	98.5	13.6	9.5	6.6
May 31.....	98.5	13.6	9.5	6.5
June 30.....	73.3	13.2	8.9	5.6
July 31.....	75.7	13.3	6.3	4.8
Aug. 31.....	84.1	11.4	7.5	0.9
Sept. 30.....	94.3	11.3	6.9	0.9

ROOSTER RIVER BASIN

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.

AVERAGE DISCHARGE.--6 years, 18.1 ft³/s (0.513 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft³/s (61.5 m³/s) Apr. 9, 1980, gage height 11.65 ft (3.551 m); minimum, 0.16 ft³/s (0.005 m³/s) Oct. 2, 1980, gage height, 2.72 ft (0.829 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Apr. 10, gage height, 9.76 ft (2.975 m); minimum, 1.4 ft³/s (0.040 m³/s) Sept. 19, gage height, 3.12 ft (0.951 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.9	5.1	3.2	12	31	22	21	16	6.2	2.5	2.0
2	1.7	2.0	4.8	3.0	11	37	20	20	13	5.8	2.3	2.0
3	1.6	2.3	4.3	3.0	76	18	141	19	12	5.5	2.1	1.7
4	1.6	3.0	4.3	3.1	21	16	46	35	163	5.1	2.2	1.7
5	1.5	20	3.9	3.7	16	17	32	18	34	19	2.4	1.7
6	2.0	2.7	4.8	20	14	14	27	16	23	7.2	2.6	1.9
7	1.7	2.4	3.9	5.1	14	58	24	14	19	5.5	2.1	1.9
8	2.1	2.3	3.6	4.0	13	53	60	19	17	4.8	2.0	1.9
9	38	2.1	3.3	3.7	12	44	37	19	15	4.5	2.0	1.8
10	2.8	1.8	3.2	37	12	39	391	12	13	4.2	2.1	1.5
11	2.2	1.8	3.0	99	10	39	111	12	12	4.0	52	1.5
12	1.9	2.7	3.0	15	10	63	61	11	11	3.9	51	3.0
13	3.2	86	2.9	11	10	28	45	11	10	3.9	6.0	2.1
14	2.5	5.8	2.9	9.8	10	23	38	10	9.6	3.5	3.9	1.4
15	2.0	6.2	2.9	8.5	10	20	34	13	10	3.6	3.2	1.4
16	1.7	3.9	33	8.2	12	18	240	24	9.2	3.5	2.9	1.5
17	2.0	3.6	6.5	7.8	22	17	91	13	8.4	3.1	2.8	1.4
18	1.5	3.3	4.3	7.6	24	79	54	9.6	8.2	3.1	3.7	1.4
19	1.5	3.2	3.9	7.5	19	202	130	9.2	8.0	7.4	2.8	1.6
20	1.5	3.1	4.5	7.4	17	61	63	26	7.8	4.3	2.6	1.9
21	3.3	3.1	4.5	7.3	18	111	44	16	7.2	4.6	2.4	26
22	2.0	3.0	3.9	7.6	19	54	35	13	6.9	4.2	2.8	35
23	1.6	3.0	3.7	135	20	37	30	47	6.5	3.2	2.8	2.9
24	1.6	2.7	5.8	49	21	30	219	17	6.4	7.0	2.3	2.3
25	17	2.6	4.6	23	19	26	83	12	6.0	3.6	2.2	2.0
26	8.2	2.8	4.5	18	17	23	51	24	5.6	3.0	2.2	1.8
27	2.7	2.8	3.9	15	16	49	40	72	7.0	2.8	2.0	1.7
28	2.4	15	4.0	14	16	103	33	20	75	2.6	2.1	1.6
29	2.2	46	3.9	13	---	35	27	23	11	2.5	2.9	1.6
30	2.0	6.0	3.6	19	---	27	24	34	7.2	2.5	2.1	11
31	1.9	---	3.2	17	---	24	---	22	---	2.7	2.0	---
TOTAL	119.7	247.1	153.7	585.5	491	1396	2253	631.8	558.0	146.8	179.0	121.2
MEAN	3.86	8.24	4.96	18.9	17.5	45.0	75.1	20.4	18.6	4.74	5.77	4.04
MAX	38	86	33	135	76	202	391	72	163	19	52	35
MIN	1.5	1.8	2.9	3.0	10	14	20	9.2	5.6	2.5	2.0	1.4
CAL YR 1982	TOTAL	6611.8	MEAN	18.1	MAX	729	MIN	1.4				
WTR YR 1983	TOTAL	6882.8	MEAN	18.9	MAX	391	MIN	1.4				

MILL RIVER BASIN

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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.--28.6 mi² (74.1 km²) rev.

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

REVISED RECORDS.--WDR CT-80-1: 1973-74, 1976-79 (P).

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.--11 years, 43.2 ft³/s (1.223 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s (51.0 m³/s) Apr. 10, 1980, gage height, 7.15 ft (2.179 m); minimum, no flow on Nov. 7, 1979 (reg.).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft³/s (36.2 m³/s) Apr. 10, gage height 6.19 ft (1.887 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 10, Sept. 11, gage height, 0.83 ft (0.253 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	6.1	8.2	6.1	27	36	103	107	85	14	1.9	1.9
2	2.6	5.7	6.6	6.7	25	70	87	97	75	12	1.9	1.9
3	2.2	6.1	5.7	6.5	91	57	218	89	59	10	1.7	1.9
4	2.2	7.7	6.1	5.7	54	41	213	108	199	9.5	1.9	1.9
5	2.2	19	5.2	6.1	47	44	148	97	149	14	1.9	1.9
6	2.2	11	6.3	19	36	50	117	81	100	16	4.6	1.9
7	2.4	7.1	5.8	14	35	112	100	67	81	9.0	2.2	1.9
8	3.5	4.8	5.4	9.7	30	143	115	62	66	8.1	1.9	1.9
9	19	3.5	5.0	8.2	28	182	151	76	54	8.1	1.7	1.9
10	5.2	2.9	3.8	12	25	152	509	59	45	6.7	1.7	1.9
11	3.8	2.9	5.2	100	24	145	789	53	39	5.8	6.7	1.7
12	3.8	2.9	5.7	41	24	219	374	45	35	5.8	32	1.9
13	7.1	48	4.5	29	24	165	216	43	31	5.8	12	2.2
14	8.2	17	3.8	23	23	117	163	37	25	4.6	5.8	1.9
15	6.6	9.7	4.1	20	23	100	136	37	17	4.6	3.8	1.9
16	6.1	6.6	16	17	23	90	376	57	14	4.6	3.1	1.9
17	5.7	5.2	18	15	27	75	729	69	17	3.8	2.8	1.9
18	5.7	4.8	9.2	14	37	107	364	50	17	3.5	3.1	2.2
19	6.1	4.5	7.1	13	36	639	382	43	16	6.2	2.8	1.9
20	6.1	4.1	7.1	11	34	500	420	58	15	5.0	2.2	1.9
21	8.2	4.1	6.6	11	34	355	261	56	14	3.8	2.2	4.6
22	8.7	4.5	6.1	11	36	337	184	47	14	4.6	1.9	5.8
23	8.7	3.8	6.6	73	39	213	150	86	12	2.2	1.9	1.9
24	8.7	4.8	8.2	99	39	153	435	72	11	3.8	1.9	1.7
25	14	3.8	9.2	51	37	133	592	58	11	3.5	1.9	1.7
26	22	3.5	8.7	40	35	110	332	51	10	2.8	1.9	1.7
27	11	3.5	7.1	35	32	104	208	116	10	2.2	1.9	1.7
28	9.7	3.5	6.6	32	31	291	161	94	54	2.2	2.2	1.7
29	8.7	33	7.1	28	---	209	136	74	34	1.9	2.2	1.7
30	7.1	14	6.6	27	---	140	120	104	16	1.9	2.2	3.8
31	6.1	---	6.6	35	---	113	---	120	---	1.9	2.2	---
TOTAL	216.2	258.1	218.2	819.0	956	5202	8289	2213	1325	187.9	118.1	64.7
MEAN	6.97	8.60	7.04	26.4	34.1	168	276	71.4	44.2	6.06	3.81	2.16
MAX	22	48	18	100	91	639	789	120	199	16	32	5.8
MIN	2.2	2.9	3.8	5.7	23	36	87	37	10	1.9	1.7	1.7

CAL YR 1982 TOTAL 15517.3 MEAN 42.5 MAX 1300 MIN 2.2
WTR YR 1983 TOTAL 19867.2 MEAN 54.4 MAX 789 MIN 1.7

SASCO BROOK BASIN

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.--7.38 mi² (19.11 km²) rev.

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.--19 years, 13.7 ft³/s (0.388 m³/s), 25.21 in/yr (640 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, Aug. 28, 1981.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)				
Mar. 19	0730	265	7.50	3.48	1.061	Apr. 16	2200	569	16.1	4.58	1.396
28	0430	169	4.79	3.02	0.920	19	1830	195	5.52	3.15	0.960
Apr. 3	1600	197	5.58	3.16	0.963	24	1800	335	9.49	3.76	1.146
10	2030	*766	21.7	*5.14	1.567	June 4	0900	197	5.41	3.13	0.954

Minimum discharge, 0.07 ft³/s (0.002 m³/s) Sept. 20, 21, gage height, 0.81 ft (0.247 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.9	7.0	3.2	14	19	24	26	22	3.9	.60	.40
2	.81	2.1	5.7	3.1	13	51	21	25	16	3.4	.55	.36
3	.81	1.9	5.0	3.0	71	29	107	22	13	2.5	.51	.36
4	.81	2.1	4.6	2.8	39	21	73	36	119	2.1	.51	.43
5	.81	6.1	4.3	2.8	22	20	38	28	73	3.4	.47	.33
6	.81	4.3	4.3	10	17	17	30	20	31	6.6	.60	.28
7	.81	2.8	4.0	9.0	14	45	26	17	23	3.6	1.8	.25
8	1.1	2.6	3.7	6.1	12	49	38	17	19	2.7	.90	.18
9	3.7	2.3	3.4	5.0	11	62	63	21	14	2.0	.77	.10
10	3.1	2.1	2.8	5.7	11	41	258	15	13	1.7	.65	.10
11	1.8	2.1	2.7	76	9.8	41	209	13	12	1.5	1.8	.10
12	1.4	2.1	2.6	28	9.4	65	77	13	10	1.3	13	.10
13	1.2	24	2.5	15	9.4	37	52	12	8.4	1.2	5.4	.18
14	1.8	12	2.3	11	9.2	28	41	11	7.0	1.2	2.7	.17
15	1.8	7.0	2.8	10	9.0	24	35	12	6.2	1.0	1.8	.10
16	1.4	5.0	9.8	8.0	9.0	21	199	17	5.4	1.0	1.5	.10
17	1.2	4.0	12	7.0	16	19	213	21	5.1	.90	1.2	.10
18	1.2	3.4	7.0	6.0	24	34	77	13	4.7	.90	1.0	.10
19	1.1	3.1	5.3	5.7	23	194	123	11	5.1	1.2	1.0	.10
20	1.1	2.8	5.0	5.0	20	83	108	22	4.7	2.1	.90	.10
21	1.4	2.8	4.6	5.0	19	89	58	18	4.1	1.5	.83	.43
22	1.4	2.8	4.3	5.3	21	77	44	14	3.6	1.2	.71	3.1
23	1.2	2.8	4.0	40	23	42	37	37	2.9	.90	.65	1.0
24	1.2	2.6	4.6	85	23	33	162	21	2.7	1.2	.60	.71
25	1.8	2.3	5.0	31	21	28	131	15	2.3	1.2	.60	.60
26	6.5	2.3	5.0	20	18	25	70	13	2.1	1.0	.55	.60
27	3.4	2.3	4.3	16	15	26	48	45	2.1	.83	.55	.55
28	2.3	2.1	4.6	14	15	113	40	26	12	.77	.51	.55
29	1.9	19	4.3	12	---	48	33	19	17	.71	.55	.51
30	1.8	11	4.0	13	---	31	30	37	6.6	.65	.47	.65
31	1.8	---	3.4	19	---	27	---	37	---	.65	.40	---
TOTAL	52.39	143.7	144.9	482.7	517.8	1439	2465	654	467.0	54.81	44.08	12.64
MEAN	1.69	4.79	4.67	15.6	18.5	46.4	82.2	21.1	15.6	1.77	1.42	.42
MAX	6.5	24	12	85	71	194	258	45	119	6.6	13	3.1
MIN	.81	1.9	2.3	2.8	9.0	17	21	11	2.1	.65	.40	.10
CFSM	.23	.65	.63	2.11	2.51	6.29	11.1	2.86	2.11	.24	.19	.06
IN.	.26	.72	.73	2.43	2.61	7.25	12.42	3.30	2.35	.28	.22	.06

CAL YR 1982 TOTAL 5088.83 MEAN 13.9 MAX 290 MIN .48 CFSM 1.88 IN 25.65
WTR YR 1983 TOTAL 6478.02 MEAN 17.7 MAX 258 MIN .10 CFSM 2.40 IN 32.65

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.--21.0 mi² (54.4 km²) rev.

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.

REVISED RECORDS.--WDR CT 80-1: 1976-79 (P).

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.--19 years, 41.9 ft³/s (1.187 m³/s), 27.10 in/yr (688 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; minimum gage height, 0.60 ft (0.183 m) Aug. 31, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 180 ft³/s (5.10 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. 11	0400	416	11.8	3.64	1.109	Mar. 28	0130	380	10.8	3.55	1.082
Feb. 3	0630	404	11.4	3.61	1.100	Apr. 3	1630	235	6.66	3.10	0.945
Mar. 2	0900	188	5.32	2.91	0.887	10	1930	*888	25.1	*4.54	1.384
8	2300	202	5.72	2.97	0.905	16	2030	760	21.5	4.35	1.326
12	0330	220	6.23	3.04	0.927	19	1930	420	11.9	3.65	1.113
19	1600	754	21.4	4.34	1.323	24	1630	605	17.1	4.07	1.241

Minimum discharge, 0.13 ft³/s (0.004 m³/s) Sept. 20, gage height, 0.55 ft (0.168 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.5	17	13	53	58	101	101	82	13	1.8	.62
2	3.4	4.5	15	12	52	160	87	92	63	9.9	2.2	.88
3	2.8	4.1	13	12	286	129	166	85	51	11	2.1	.67
4	2.5	4.1	12	11	206	105	169	85	124	7.8	1.8	.32
5	2.2	8.1	11	9.9	139	92	129	75	105	15	1.6	.32
6	2.8	9.0	9.9	23	104	79	104	67	79	27	1.6	.42
7	2.1	7.5	9.6	21	95	133	92	58	65	15	1.6	.24
8	2.1	6.2	9.0	18	85	151	113	51	53	10	1.3	.22
9	4.3	6.7	8.4	17	77	178	143	54	42	7.8	1.2	.18
10	3.6	6.0	7.2	16	70	158	380	47	36	8.7	1.2	.18
11	3.2	5.3	8.0	221	65	149	440	42	33	7.3	1.5	.17
12	3.1	4.9	7.5	127	60	187	254	38	35	5.4	8.1	.16
13	3.1	50	7.0	88	57	147	185	36	29	4.8	8.4	.20
14	3.6	33	6.7	58	55	119	149	33	24	4.3	5.2	.29
15	3.4	24	5.5	49	52	100	126	37	22	4.1	3.8	.20
16	3.2	23	41	45	50	89	323	63	19	4.1	3.3	.22
17	3.2	21	39	42	56	78	453	67	17	3.9	2.5	.22
18	3.2	17	28	38	69	133	274	47	16	3.4	1.9	.22
19	3.4	14	24	36	64	670	298	38	17	4.1	1.6	.22
20	2.9	12	21	33	57	436	340	46	16	4.8	1.5	.16
21	3.1	11	21	32	56	330	246	43	14	4.3	1.3	.22
22	3.1	11	20	27	60	304	189	39	12	3.9	1.2	1.7
23	3.4	9.6	18	88	63	220	158	94	10	3.3	1.1	1.3
24	3.6	8.7	20	135	63	171	347	71	9.3	3.0	.94	.88
25	3.7	7.8	20	95	60	135	407	55	8.7	3.9	.67	.62
26	9.0	7.5	20	75	54	114	295	47	6.6	3.9	.67	.38
27	9.6	7.0	17	60	50	113	208	96	9.6	3.1	.67	.35
28	8.1	6.5	15	50	50	266	166	70	25	2.5	.58	.29
29	6.5	21	15	47	---	192	139	61	28	2.7	.58	.27
30	5.7	21	14	48	---	137	119	83	18	2.3	.62	.62
31	5.3	---	13	66	---	119	---	104	---	1.7	.62	---
TOTAL	123.3	376.0	492.8	1612.9	2208	5452	6600	1925	1069.2	206.0	63.15	12.74
MEAN	3.98	12.5	15.9	52.0	78.9	176	220	62.1	35.6	6.65	2.04	.42
MAX	9.6	50	41	221	286	670	453	104	124	27	8.4	1.7
MIN	2.1	4.1	5.5	9.9	50	58	87	33	6.6	1.7	.58	.16
CFSM	.19	.60	.76	2.48	3.76	8.38	10.5	2.96	1.70	.32	.10	.02
IN.	.22	.67	.87	2.86	3.91	9.66	11.69	3.41	1.89	.36	.11	.02

CAL YR 1982 TOTAL 13130.70 MEAN 36.0 MAX 538 MIN 1.2 CFSM 1.71 IN 23.26
WTR YR 1983 TOTAL 20141.09 MEAN 55.2 MAX 670 MIN .16 CFSM 2.63 IN 35.68

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT 20...	1125	2.7	200	8.0	19.0	10.5	3.0	11.6	102	K18
NOV 17...	1055	21	183	7.5	11.0	5.5	1.0	14.8	117	140
DEC 16...	1230	73	270	7.7	13.5	3.0	2.7	14.0	104	2800
JAN 12...	1030	134	126	7.4	4.0	3.5	3.4	14.0	107	170
MAR 02...	1100	185	130	7.3	10.5	3.0	2.7	14.1	106	120
08...	0940	400	150	7.3	4.0	3.0	--	--	--	--
APR 12...	1215	252	124	7.3	14.0	10.0	1.5	11.3	100	30
MAY 20...	1345	51	150	7.5	16.0	13.5	0.7	11.1	105	92
JUN 16...	1200	20	167	7.7	28.5	23.0	2.3	9.3	106	100
JUL 18...	1345	3.4	169	8.4	37.0	25.5	1.2	10.6	126	38
AUG 11...	1210	1.1	198	7.4	21.0	20.0	1.5	8.7	94	1100
SEP 03...	1118	0.66	214	7.8	26.5	19.0	0.5	9.5	100	190

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- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	220	--	--	--	--	--	11	13	--	142
NOV 17...	180	68	19	18	5.7	49	11	21	11	114
DEC 16...	22000	--	--	--	--	--	14	45	--	163
JAN 12...	3300	43	12	11	3.7	31	20	21	6.5	86
MAR 02...	1700	--	--	--	--	--	14	13	--	66
08...	--	--	--	--	--	--	--	--	--	--
APR 12...	220	--	--	--	--	--	10	10	--	78
MAY 20...	240	53	10	14	4.3	43	10	11	6.0	81
JUN 16...	880	--	--	--	--	--	8.0	12	--	103
JUL 18...	1500	83	11	22	6.7	72	9.0	12	6.8	133
AUG 11...	78000	--	--	--	--	--	9.0	11	--	121
SEP 03...	1100	--	--	--	--	--	10	11	--	118

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, 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)
OCT 20...	24	0.19	1.0	140	0.09	<0.01	<0.1	0.03	0.17	0.2
NOV 17...	96	0.16	6.5	115	0.19	<0.01	0.2	0.08	0.12	0.2
DEC 16...	59	0.22	32.0	229	0.29	0.01	0.3	0.09	1.1	1.20
JAN 12...	81	0.12	31.1	120	0.19	<0.01	0.2	0.02	0.28	0.3
MAR 02...	27	0.09	33.0	89	0.19	<0.01	0.2	0.05	0.15	0.2
08...	--	--	--	--	--	--	--	--	--	--
APR 12...	20	0.11	53.1	86	0.09	<0.01	<0.1	<0.01	0.19	0.2
MAY 20...	71	0.11	11.2	101	0.09	<0.01	0.1	0.05	0.15	0.2
JUN 16...	20	0.14	5.6	113	0.18	0.02	0.2	0.07	0.43	0.5
JUL 18...	100	0.18	1.2	114	0.09	0.01	<0.1	0.03	0.37	0.4
AUG 11...	20	0.16	0.35	145	0.19	<0.01	0.2	0.05	0.85	0.9
SEP 03...	21	0.16	0.21	121	0.08	0.02	<0.1	0.06	0.34	0.4

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 20...	0.3	0.02	0.01	--	1	--	<1	--	<1	--
NOV 17...	0.4	0.03	0.02	<1	<1	2	<1	4.00	2	310
DEC 16...	1.5	0.12	0.03	--	1	--	<1	--	2	--
JAN 12...	0.5	0.24	0.03	1	2	<1	3	6.00	1	340
MAR 02...	0.4	0.02	<0.01	--	1	--	<1	--	1	--
08...	--	--	--	1	--	<1	--	2.00	--	140
APR 12...	0.3	0.02	<0.01	--	<1	--	1	--	5	--
MAY 20...	0.3	0.02	0.01	1	2	4	<1	<1.00	2	380
JUN 16...	0.7	0.05	0.03	--	1	--	1	--	3	--
JUL 18...	0.5	0.06	0.06	<1	<1	<1	<1	5.00	5	250
AUG 11...	1.1	0.02	0.02	--	<1	--	<1	--	1	--
SEP 03...	0.5	0.03	0.02	1	1	1	<1	6.00	3	230

SAUGATUCK RIVER BASIN

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	--	--	3	--	--	2	--	10	4.4
NOV 17...	180	3.00	1	18	1.00	4	20	<4.00	5.1
DEC 16...	--	--	5	--	--	2	--	10	7.4
JAN 12...	110	3.00	1	13	1.00	1	20	<4.00	6.0
MAR 02...	--	--	2	--	--	4	--	10	3.8
08...	--	7.00	--	--	1.00	--	20	--	--
APR 12...	--	--	2	--	--	2	--	20	4.1
MAY 20...	160	4.00	<1	28	2.00	<1	10	3.00	4.0
JUN 16...	--	--	7	--	--	2	--	30	5.8
JUL 18...	110	7.00	3	19	5.00	1	20	<3.00	5.1
AUG 11...	--	--	<1	--	--	<1	--	10	4.3
SEP 03...	--	3.00	<1	--	<1.00	<1	20	10	3.7

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).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-62. September 1962 to current year.

REVISED RECORDS.--WDR CT 80-1: 1968-70 (P), 1971-79 (M,P).

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). Water-quality data available for water years 1976-78.

AVERAGE DISCHARGE.--21 years, 56.9 ft³/s (1.611 m³/s), 25.76 in/yr (654 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s (81.8 m³/s) Apr. 10, 1980, gage height, 6.27 ft (1.911 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 24, 1964, gage height, 0.82 ft (0.250 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a stage of 13.5 ft (4.12 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	0530	505 14.3	2.95 0.899	Apr. 10	2100	*1480 41.9	*4.53 1.381
23	2230	405 11.5	2.75 0.838	16	2200	1040 29.5	3.87 1.180
Feb. 3	0930	422 12.0	3.13 0.954	19	2230	586 16.6	3.11 0.948
Mar. 19	1030	1140 32.3	4.04 1.231	24	1730	1160 32.9	4.06 1.237
28	0600	652 18.5	3.22 0.981				

Minimum discharge, 1.7 ft³/s (0.048 m³/s) Oct. 6, 7; minimum gage height, 0.94 ft (0.287 m) Sept. 12, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	7.8	26	13	50	59	165	150	102	28	13	4.2
2	3.1	6.2	23	12	46	173	136	132	74	24	17	4.0
3	2.2	6.0	18	12	300	118	320	120	59	20	8.2	3.6
4	2.2	6.0	16	11	195	90	291	136	224	17	7.7	3.4
5	2.0	15	14	11	133	85	211	107	244	24	7.3	2.9
6	1.7	14	14	31	100	70	175	93	142	40	6.9	2.5
7	1.7	12	13	30	89	147	150	81	120	28	6.9	2.5
8	4.3	12	10	24	75	168	178	81	98	23	6.1	2.7
9	7.0	9.9	8.8	21	63	204	261	85	79	19	5.4	2.7
10	5.0	7.9	8.3	23	54	160	585	71	69	16	5.0	2.5
11	4.0	6.4	7.7	361	46	165	646	66	65	14	18	2.5
12	3.8	5.8	7.3	195	43	204	351	62	59	13	37	2.5
13	4.0	117	7.0	128	41	143	282	59	53	12	25	2.3
14	5.5	63	7.0	91	40	114	219	55	46	10	20	2.9
15	5.2	47	6.9	78	38	102	178	59	43	14	15	2.5
16	4.7	37	71	65	45	85	468	95	39	27	11	7.7
17	4.4	25	69	53	51	78	592	93	34	7.0	8.7	4.4
18	4.2	17	43	46	70	168	368	71	34	11	7.7	3.4
19	4.0	13	35	38	64	946	460	62	33	13	7.7	2.7
20	3.9	11	29	33	58	535	428	81	32	11	6.5	2.3
21	4.2	9.7	23	31	56	470	325	68	30	11	5.7	3.6
22	4.3	9.3	19	30	63	423	256	65	28	15	5.4	12
23	5.1	8.5	16	133	67	320	204	140	25	9.3	5.0	5.7
24	5.4	8.3	19	184	69	261	634	102	23	9.9	4.7	5.0
25	5.6	7.5	20	113	63	215	604	79	21	9.9	4.4	4.4
26	16	6.6	22	85	56	165	386	83	19	8.2	4.2	4.0
27	18	6.6	20	64	49	162	315	160	18	8.2	4.0	3.6
28	13	6.8	20	52	47	495	252	108	55	6.9	4.0	3.1
29	11	49	19	45	---	291	200	95	55	6.9	4.7	2.9
30	9.5	35	16	44	---	219	168	132	35	6.3	4.4	4.0
31	8.3	---	14	63	---	189	---	148	---	6.1	4.4	---
TOTAL	179.5	586.3	642.0	2120	2071	7024	9808	2939	1958	468.7	291.0	112.5
MEAN	5.79	19.5	20.7	68.4	74.0	227	327	94.8	65.3	15.1	9.39	3.75
MAX	18	117	71	361	300	946	646	160	244	40	37	12
MIN	1.7	5.8	6.9	11	38	59	136	55	18	6.1	4.0	2.3
CFSM	.19	.65	.69	2.28	2.47	7.57	10.9	3.16	2.18	.50	.31	.13
IN.	.22	.73	.80	2.63	2.57	8.71	12.16	3.64	2.43	.58	.36	.14
CAL YR 1982	TOTAL	17230.0	MEAN 47.2	MAX 794	MIN 1.7	CFSM 1.57	IN 21.36					
WTR YR 1983	TOTAL	28200.0	MEAN 77.3	MAX 946	MIN 1.7	CFSM 2.58	IN 34.97					

NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT

LOCATION.--Lat 41°08'07", long 73°25'36", Fairfield County, Hydrologic Unit 01100007, on Perry Ave., 0.6 mi (1.0 km) south of Winnipauk, and 0.3 mi (0.5 km) upstream from confluence of Silvermine River.

DRAINAGE AREA.--33.0 mi² (85.5 km²).

PERIOD OF RECORD.--October 1980 to September 1981.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01209700, 2.1 mi (3.4 km) north, and multiplying by a factor of 1.1, which is the ratio of the drainage areas of the two stations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	0950	254	335	8.8	17.5	12.5	6.0	15.0	136	84	190
NOV 17...	1230	18	296	7.9	17.0	8.0	1.0	13.8	114	560	440
DEC 16...	1030	56	260	7.6	12.5	3.5	10	15.1	113	5500	18000
JAN 12...	1220	219	165	7.5	7.0	5.0	6.3	13.3	106	700	4400
MAR 02...	1000	209	200	7.7	10.0	5.0	5.7	13.3	105	150	1000
APR 12...	1030	363	152	7.1	14.0	9.0	1.7	12.8	102	340	380
MAY 20...	1235	95	288	7.7	16.0	13.0	1.2	11.6	108	500	4900
JUN 16...	1015	39	227	7.7	27.0	21.0	1.0	10.1	111	420	960
JUL 18...	1235	12	252	8.2	34.0	27.0	1.5	10.1	125	190	2700
AUG 11...	1025	5.5	259	7.5	22.0	23.0	0.6	8.6	97	88	8200
SEP 03...	1300	4.0	265	8.7	33.0	28.0	0.4	11.8	149	160	280

DATE	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 LAB (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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 20...	--	--	--	--	--	31	47	--	199	78	0.27
NOV 17...	110	40	28	8.8	66	19	37	9.7	174	142	0.24
DEC 16...	--	--	--	--	--	19	34	--	151	53	0.21
JAN 12...	50	20	12	4.2	30	14	17	7.2	115	73	0.16
MAR 02...	--	--	--	--	--	19	25	--	--	44	0.06
APR 12...	--	--	--	--	--	12	16	--	132	28	0.18
MAY 20...	75	23	20	6.2	52	16	24	5.3	150	103	0.2
JUN 16...	--	--	--	--	--	19	24	--	137	43	0.19
JUL 18...	81	27	22	6.3	54	23	32	3.6	167	119	0.23
AUG 11...	--	--	--	--	--	22	30	--	168	52	0.23
SEP 03...	--	--	--	--	--	26	34	--	168	60	0.23

NORWALK RIVER BASIN

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01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 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)
OCT 20...	136	222	0.19	<0.01	0.2	0.04	1.3	1.30	1.5	0.04
NOV 17...	8.4	188	0.59	<0.01	0.6	0.08	0.02	<0.1	0.7	0.13
DEC 16...	22.9	245	0.64	0.06	0.7	0.15	0.45	0.6	1.3	0.21
JAN 12...	68.0	122	0.59	<0.01	0.6	0.04	0.26	0.3	0.9	0.09
MAR 02...	24.9	138	0.59	<0.01	0.6	0.05	0.25	0.3	0.9	0.12
APR 12...	129	100	0.39	<0.01	0.4	0.02	0.38	0.4	0.8	0.06
MAY 20...	38.5	161	0.29	<0.01	0.3	0.05	0.15	0.2	0.5	0.07
JUN 16...	14.4	151	0.49	<0.01	0.5	0.07	0.43	0.5	1.0	0.07
JUL 18...	5.5	156	0.29	<0.01	0.3	0.02	0.48	0.5	0.8	0.07
AUG 11...	2.5	175	0.49	0.01	0.5	0.05	0.75	0.8	1.3	0.03
SEP 03...	1.8	150	0.19	<0.01	0.2	0.05	0.35	0.4	0.6	0.04

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	0.03	1	<1	5	--	<1	--	2	10	3.1
NOV 17...	0.11	<1	<1	7	160	2	41	6	24	5.2
DEC 16...	0.04	2	<1	5	--	4	--	2	20	6.2
JAN 12...	0.04	1	<1	2	110	5	23	1	17	7.1
MAR 02...	0.02	<1	8	3	--	3	--	4	20	3.7
APR 12...	<0.01	1	<1	12	--	3	--	2	20	4.2
MAY 20...	0.05	1	<1	8	110	<1	31	<1	11	4.3
JUN 16...	0.04	1	3	10	--	<1	--	4	20	3.6
JUL 18...	0.06	<1	<1	19	91	3	40	1	--	3.3
AUG 11...	0.01	1	<1	5	--	2	--	1	10	3.2
SEP 03...	0.02	1	<1	5	--	<1	--	3	10	1.8

01209753 BETTS POND BROOK AT NORWALK, CT

LOCATION.--Lat 41°07'34", long 73°24'17", Fairfield County, Hydrologic Unit 01100006, at Merrill Road on right downstream wingwall, 0.5 mi (0.8 km) upstream from confluence of Norwalk River.

DRAINAGE AREA.--2.22 mi² (5.75 km²).

PERIOD OF RECORD.--April 17, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 33.88 ft (10.327 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 444 ft³/s (12.6 m³/s) April 10, 1983, gage height, 3.42 ft (1.042 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 444 ft³/s (12.6 m³/s) April 10, gage height, 3.42 ft (1.042 m).

DATE: APR. 10, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	11	033000	10.0	064500	10.0	100000	22-	131500	74	163000	346
003000	10.0	034500	10.0	070000	11	101500	27	133000	83	164500	426
004500	10.0	040000	10.0	071500	11	103000	32	134500	114	170000	340
010000	10.0	041500	10.0	073000	10.0	104500	41	140000	114	171500	390
011500	11	043000	10.0	074500	11	110000	47	141500	136	173000	408
013000	10.0	044500	9.7	080000	10.0	111500	47	143000	155	174500	439
014500	10.0	050000	9.7	081500	11	113000	47	144500	171	180000	301
020000	10.0	051500	10.0	083000	12	114500	50	150000	163	181500	221
021500	10.0	053000	10.0	084500	13	120000	47	151500	247	183000	185
023000	10.0	054500	10.0	090000	14	121500	60	153000	243		
024500	10.0	060000	10.0	091500	15	123000	64	154500	297		
030000	9.7	061500	11	093000	16	124500	60	160000	288		
031500	10.0	063000	10.0	094500	18	130000	67	161500	367		

DATE: APR. 24, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
091500	42	101500	112	111500	112	121500	107	131500	126	141500	138
093000	53	103000	107	113000	102	123000	105	133000	132		
094500	67	104500	128	114500	102	124500	109	134500	128		
100000	98	110000	134	120000	100	130000	126	140000	132		

NORWALK RIVER BASIN

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01209753 BETTS POND BROOK AT NORWALK, CT--Continued

DATE: JUNE 4, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	6.4	043000	136	084500	50	130000	29	171500	19	213000	59
003000	7.3	044500	130	090000	49	131500	28	173000	18	214500	74
004500	8.7	050000	114	091500	44	133000	26	174500	28	220000	55
010000	11	051500	107	093000	44	134500	26	180000	60	221500	52
011500	13	053000	89	094500	44	140000	24	181500	103	223000	54
013000	15	054500	86	100000	39	141500	24	183000	168	224500	48
014500	19	060000	91	101500	35	143000	25	184500	138	230000	45
020000	26	061500	85	103000	36	144500	24	190000	138	231500	44
021500	52	063000	92	104500	37	150000	23	191500	112	233000	4.3
023000	78	064500	76	110000	31	151500	23	193000	114	234500	42
024500	126	070000	74	111500	33	153000	21	194500	107	240000	39
030000	138	071500	63	113000	30	154500	21	200000	82		
031500	152	073000	66	114500	30	160000	22	201500	82		
033000	138	074500	68	120000	30	161500	20	203000	82		
034500	150	080000	52	121500	28	163000	18	204500	70		
040000	150	081500	56	123000	28	164500	20	210000	71		
041500	130	083000	49	124500	30	170000	18	211500	63		

410659073252001 RAIN GAGE AT JEFFERSON SCHOOL AT NORWALK, CT

LOCATION.--Lat 41°06'59", long 73°25'20", Fairfield County, Hydrologic Unit 01100006, on southwest end of roof of Jefferson Elementary School, on Grandview Avenue in Norwalk River drainage basin, 1.1 mi (1.8 km) southwest of gage on Betts Pond Brook at Norwalk.

PERIOD OF RECORD.--July 18, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily rainfall, 8.20 in (208 mm) Oct. 16, 1955, at Norwalk Gas Plant, 0.6 mi (1.0 km) northeast, at mouth of Betts Pond Brook.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.33 in (8.38 mm) June 20, 1981; maximum for 15 minutes, 0.67 in (17.0 mm) June 20, 1981; maximum for 30 minutes, 0.72 in (18.3 mm) June 20, 1981; maximum hourly, 0.87 in (22.1 mm) May 29, 1982; maximum daily recorded, 2.97 in (75.4 mm) Apr. 16, 1983; maximum daily, about 3.0 in (about 76.2 mm) Feb. 20, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.26 in (6.60 mm) Nov. 12; maximum for 15 minutes, 0.58 in (14.7 mm) Nov. 12; maximum for 30 minutes, 0.59 in (15.0 mm) Nov. 12; maximum hourly, 0.68 in (17.3 mm) June 4; maximum daily, 2.97 in (75.4 mm) Apr. 16.

DATE: NOV. 12, 1982

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
024500	0.01	031500	0.01	034500	0.03	041500	0.18				
030000	0.01	033000	0.04	040000	0.41						

DATE: MAR. 18, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
131500	0.03	151500	0.02	171500	0.03	191500	0.05	211500	0.000	231500	0.03
133000	0.02	153000	0.04	173000	0.02	193000	0.06	213000	0.03	233000	0.03
134500	0.01	154500	0.03	174500	0.03	194500	0.06	214500	0.02	234500	0.03
140000	0.01	160000	0.03	180000	0.02	200000	0.04	220000	0.01	240000	0.04
141500	0.02	161500	0.03	181500	0.03	201500	0.11	221500	0.01		
143000	0.02	163000	0.08	183000	0.04	203000	0.08	223000	0.02		
144500	0.01	164500	0.07	184500	0.05	204500	0.06	224500	0.000		
150000	0.01	170000	0.05	190000	0.08	210000	0.02	230000	0.03		

NORWALK RIVER BASIN

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410659073252001 RAIN GAGE AT JEFFERSON SCHOOL AT NORWALK, CT--Continued

DATE: MAR. 19,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.02	034500	0.000	071500	0.000	104500	0.000	141500	0.000	174500	0.000
003000	0.03	040000	0.000	073000	0.000	110000	0.000	143000	0.000	180000	0.000
004500	0.05	041500	0.000	074500	0.000	111500	0.01	144500	0.000	181500	0.000
010000	0.05	043000	0.03	080000	0.000	113000	0.000	150000	0.000	183000	0.000
011500	0.09	044500	0.11	081500	0.000	114500	0.000	151500	0.000	184500	0.000
013000	0.07	050000	0.03	083000	0.000	120000	0.01	153000	0.000	190000	0.000
014500	0.07	051500	0.01	084500	0.000	121500	0.000	154500	0.000	191500	0.000
020000	0.04	053000	0.02	090000	0.000	123000	0.000	160000	0.000	193000	0.000
021500	0.04	054500	0.000	091500	0.000	124500	0.000	161500	0.000	194500	0.000
023000	0.05	060000	0.000	093000	0.02	130000	0.000	163000	0.000	200000	0.01
024500	0.03	061500	0.000	094500	0.05	131500	0.000	164500	0.000		
030000	0.02	063000	0.000	100000	0.04	133000	0.000	170000	0.000		
031500	0.000	064500	0.000	101500	0.000	134500	0.000	171500	0.000		
033000	0.01	070000	0.000	103000	0.01	140000	0.000	173000	0.000		

DATE: MAR. 27,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
161500	0.01	174500	0.000	191500	0.02	204500	0.06	221500	0.08	234500	0.04
163000	0.01	180000	0.01	193000	0.01	210000	0.06	223000	0.07	240000	0.01
164500	0.000	181500	0.000	194500	0.000	211500	0.05	224500	0.07		
170000	0.01	183000	0.000	200000	0.04	213000	0.05	230000	0.10		
171500	0.01	184500	0.01	201500	0.04	214500	0.07	231500	0.14		
173000	0.01	190000	0.01	203000	0.05	220000	0.08	233000	0.14		

DATE: APR. 10,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
043000	0.01	080000	0.03	113000	0.04	150000	0.14	183000	0.01	220000	0.000
044500	0.01	081500	0.02	114500	0.07	151500	0.09	184500	0.01	221500	0.01
050000	0.000	083000	0.02	120000	0.05	153000	0.06	190000	0.000	223000	0.000
051500	0.01	084500	0.000	121500	0.02	154500	0.12	191500	0.000	224500	0.000
053000	0.000	090000	0.05	123000	0.04	160000	0.04	193000	0.000	230000	0.000
054500	0.01	091500	0.04	124500	0.06	161500	0.04	194500	0.000	231500	0.000
060000	0.000	093000	0.03	130000	0.11	163000	0.02	200000	0.000	233000	0.000
061500	0.000	094500	0.03	131500	0.08	164500	0.08	201500	0.000	234500	0.01
063000	0.000	100000	0.10	133000	0.10	170000	0.10	203000	0.000		
064500	0.000	101500	0.07	134500	0.08	171500	0.02	204500	0.000		
070000	0.000	103000	0.07	140000	0.03	173000	0.02	210000	0.000		
071500	0.000	104500	0.05	141500	0.17	174500	0.10	211500	0.000		
073000	0.000	110000	0.03	143000	0.16	180000	0.11	213000	0.000		
074500	0.01	111500	0.01	144500	0.14	181500	0.01	214500	0.000		

DATE: APR. 16,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
083000	0.03	110000	0.04	133000	0.12	160000	0.03	183000	0.05	210000	0.01
084500	0.05	111500	0.10	134500	0.11	161500	0.03	184500	0.05	211500	0.000
090000	0.04	113000	0.10	140000	0.10	163000	0.07	190000	0.03	213000	0.000
091500	0.03	114500	0.10	141500	0.06	164500	0.10	191500	0.02	214500	0.01
093000	0.03	120000	0.11	143000	0.07	170000	0.09	193000	0.04		
094500	0.04	121500	0.09	144500	0.05	171500	0.05	194500	0.04		
100000	0.03	123000	0.11	150000	0.06	173000	0.05	200000	0.000		
101500	0.01	124500	0.11	151500	0.07	174500	0.09	201500	0.000		
103000	0.05	130000	0.13	153000	0.04	180000	0.08	203000	0.01		
104500	0.03	131500	0.09	154500	0.04	181500	0.08	204500	0.000		

410659073252001 RAIN GAGE AT JEFFERSON SCHOOL AT NORWALK, CT--Continued

DATE: APR. 24,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
053000	0.01	084500	0.06	120000	0.01	151500	0.01	183000	0.000	214500	0.000
054500	0.000	090000	0.07	121500	0.04	153000	0.000	184500	0.02	220000	0.000
060000	0.03	091500	0.09	123000	0.01	154500	0.000	190000	0.02	221500	0.000
061500	0.03	093000	0.12	124500	0.02	160000	0.000	191500	0.000	223000	0.000
063000	0.02	094500	0.10	130000	0.05	161500	0.000	193000	0.01	224500	0.000
064500	0.01	100000	0.14	131500	0.04	163000	0.01	194500	0.000	230000	0.000
070000	0.01	101500	0.09	133000	0.05	164500	0.000	200000	0.000	231500	0.000
071500	0.02	103000	0.05	134500	0.03	170000	0.000	201500	0.000	233000	0.000
073000	0.03	104500	0.02	140000	0.01	171500	0.000	203000	0.01	234500	0.01
074500	0.03	110000	0.02	141500	0.06	173000	0.000	204500	0.000		
080000	0.05	111500	0.04	143000	0.07	174500	0.000	210000	0.000		
081500	0.07	113000	0.06	144500	0.04	180000	0.000	211500	0.000		
083000	0.04	114500	0.07	150000	0.07	181500	0.02	213000	0.000		

DATE: JUNE 3,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
220000	0.01	223000	0.01	230000	0.01	233000	0.02	240000	0.04		
221500	0.000	224500	0.01	231500	0.01	234500	0.01				

DATE: JUNE 4,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
001500	0.04	033000	0.09	064500	0.000	100000	0.000	131500	0.000	163000	0.000
003000	0.04	034500	0.06	070000	0.000	101500	0.000	133000	0.000	164500	0.000
004500	0.05	040000	0.01	071500	0.000	103000	0.000	134500	0.000	170000	0.000
010000	0.04	041500	0.01	073000	0.000	104500	0.000	140000	0.000	171500	0.000
011500	0.06	043000	0.01	074500	0.000	110000	0.000	141500	0.000	173000	0.000
013000	0.06	044500	0.000	080000	0.000	111500	0.000	143000	0.000	174500	0.27
014500	0.12	050000	0.01	081500	0.000	113000	0.000	144500	0.000	180000	0.27
020000	0.10	051500	0.04	083000	0.000	114500	0.000	150000	0.000	181500	0.10
021500	0.22	053000	0.000	084500	0.000	120000	0.000	151500	0.000		
023000	0.14	054500	0.02	090000	0.000	121500	0.000	153000	0.000		
024500	0.18	060000	0.000	091500	0.000	123000	0.000	154500	0.000		
030000	0.14	061500	0.000	093000	0.000	124500	0.000	160000	0.000		
031500	0.13	063000	0.000	094500	0.000	130000	0.000	161500	0.000		

DATE: SEP. 21,1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
190000	0.009	200000	0.03	210000	0.18	220000	0.06	230000	0.03	240000	0.03
191500	0.03	201500	0.03	211500	0.05	221500	0.03	231500	0.04		
193000	0.03	203000	0.04	213000	0.09	223000	0.03	233000	0.04		
194500	0.05	204500	0.10	214500	0.18	224500	0.02	234500	0.03		

FIVEMILE RIVER BASIN

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01209775 KEELERS BROOK AT NORWALK, CT

LOCATION.--Lat 41°05'08", long 73°26'36", Fairfield County, Hydrologic Unit 01100006, at Rowayton Avenue on right downstream wingwall, 0.3 mi (0.5 km) upstream from confluence of Fivemile River.

DRAINAGE AREA.--2.33 mi² (6.03 km²).

PERIOD OF RECORD.--April 17, 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 26.73 ft (8.157 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The stage data are recorded at 5-minute intervals for determination of discharge. The 5-minute discharges are available in the files of the U.S. Geological Survey but are published at 15-minute intervals. Some regulation from ponds upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 306 ft³/s (8.67 m³/s) Apr. 10, 1983, gage height, 4.48 ft (1.366 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 306 ft³/s (8.67 m³/s) Apr. 10, gage height, 4.48 ft (1.366 m).

DATE: MAR. 18, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.2	043000	2.2	084500	1.4	130000	2.1	171500	9.9	213000	66
003000	2.3	044500	2.1	090000	2.1	131500	2.2	173000	11	214500	71
004500	2.2	050000	2.1	091500	2.1	133000	2.2	174500	12	220000	74
010000	2.2	051500	2.2	093000	2.1	134500	2.3	180000	14	221500	71
011500	2.2	053000	2.2	094500	2.2	140000	2.3	181500	16	223000	67
013000	2.2	054500	2.2	100000	2.2	141500	2.3	183000	19	224500	68
014500	2.2	060000	2.2	101500	2.2	143000	2.6	184500	21	230000	72
020000	2.4	061500	2.2	103000	2.2	144500	2.6	190000	26	231500	64
021500	2.2	063000	2.1	104500	2.2	150000	2.6	191500	30	233000	68
023000	2.2	064500	2.2	110000	2.2	151500	3.0	193000	34	234500	63
024500	2.2	070000	2.1	111500	2.1	153000	3.1	194500	38	240000	65
030000	2.2	071500	2.1	113000	2.1	154500	3.4	200000	43		
031500	2.2	073000	2.1	114500	2.1	160000	4.1	201500	51		
033000	2.2	074500	2.1	120000	2.1	161500	4.5	203000	54		
034500	2.2	080000	2.1	121500	2.1	163000	5.5	204500	63		
040000	2.2	081500	2.1	123000	2.1	164500	6.7	210000	62		
041500	2.2	083000	2.1	124500	2.1	170000	8.3	211500	66		

DATE: MAR. 19, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	66	043000	99	084500	66	130000	55	171500	38	213000	27
003000	68	044500	99	090000	62	131500	56	173000	35	214500	26
004500	64	050000	103	091500	62	133000	52	174500	35	220000	26
010000	72	051500	99	093000	61	134500	51	180000	35	221500	27
011500	76	053000	91	094500	66	140000	50	181500	34	223000	26
013000	79	054500	93	100000	65	141500	48	183000	33	224500	26
014500	87	060000	91	101500	63	143000	47	184500	34	230000	25
020000	92	061500	91	103000	63	144500	47	190000	31	231500	25
021500	95	063000	87	104500	63	150000	47	191500	31	233000	23
023000	103	064500	85	110000	63	151500	44	193000	32	234500	25
024500	103	070000	83	111500	63	153000	46	194500	31	240000	24
030000	108	071500	82	113000	63	154500	44	200000	30		
031500	108	073000	76	114500	63	160000	43	201500	30		
033000	106	074500	77	120000	62	161500	42	203000	29		
034500	104	080000	73	121500	61	163000	42	204500	28		
040000	105	081500	69	123000	59	164500	41	210000	28		
041500	103	083000	67	124500	56	170000	38	211500	28		

FIVEMILE RIVER BASIN

01209775 KEELERS BROOK AT NORWALK, CT--Continued

DATE: MAR. 27, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.7	043000	2.7	084500	2.6	130000	2.6	171500	2.7	213000	12
003000	2.7	044500	2.7	090000	2.6	131500	2.7	173000	2.7	214500	14
004500	2.8	050000	2.7	091500	2.6	133000	2.6	174500	2.7	220000	18
010000	2.7	051500	2.7	093000	2.6	134500	2.6	180000	3.0	221500	25
011500	2.8	053000	2.7	094500	2.6	140000	2.6	181500	3.0	223000	31
013000	3.0	054500	2.6	100000	2.7	141500	2.6	183000	2.8	224500	40
014500	2.7	060000	2.7	101500	2.6	143000	2.6	184500	3.0	230000	48
020000	2.7	061500	2.6	103000	2.6	144500	2.6	190000	3.2	231500	64
021500	2.7	063000	2.6	104500	2.6	150000	2.6	191500	3.1	233000	86
023000	3.0	064500	2.6	110000	2.6	151500	2.6	193000	3.2	234500	102
024500	2.7	070000	2.6	111500	2.6	153000	2.6	194500	3.4	240000	113
030000	2.7	071500	2.7	113000	2.6	154500	2.6	200000	3.6		
031500	2.7	073000	2.7	114500	2.6	160000	2.7	201500	4.1		
033000	2.7	074500	2.6	120000	2.6	161500	2.7	203000	5.1		
034500	2.7	080000	2.6	121500	2.6	163000	2.7	204500	6.2		
040000	2.7	081500	2.6	123000	2.6	164500	2.7	210000	8.0		
041500	2.7	083000	2.6	124500	2.7	170000	2.7	211500	9.9		

DATE: MAR. 28, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	122	043000	65	084500	31	130000	20	171500	21	213000	16
003000	117	044500	63	090000	30	131500	20	173000	20	214500	15
004500	120	050000	56	091500	30	133000	20	174500	20	220000	15
010000	120	051500	55	093000	30	134500	20	180000	21	221500	15
011500	118	053000	51	094500	28	140000	20	181500	20	223000	15
013000	120	054500	48	100000	26	141500	19	183000	20	224500	15
014500	111	060000	47	101500	26	143000	19	184500	20	230000	14
020000	109	061500	48	103000	25	144500	18	190000	19	231500	14
021500	108	063000	44	104500	25	150000	18	191500	19	233000	13
023000	104	064500	42	110000	24	151500	19	193000	18	234500	13
024500	97	070000	37	111500	24	153000	20	194500	18	240000	13
030000	92	071500	39	113000	24	154500	20	200000	18		
031500	86	073000	37	114500	22	160000	21	201500	18		
033000	84	074500	35	120000	22	161500	20	203000	17		
034500	80	080000	35	121500	22	163000	20	204500	17		
040000	75	081500	33	123000	21	164500	21	210000	17		
041500	70	083000	31	124500	21	170000	21	211500	16		

DATE: APR. 3, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.3	043000	2.8	084500	47	130000	110	171500	48	213000	31
003000	2.3	044500	3.0	090000	55	131500	104	173000	45	214500	29
004500	2.3	050000	3.1	091500	68	133000	100	174500	46	220000	28
010000	2.3	051500	3.7	093000	79	134500	93	180000	43	221500	28
011500	2.3	053000	4.9	094500	94	140000	92	181500	42	223000	27
013000	2.3	054500	6.2	100000	104	141500	89	183000	39	224500	27
014500	2.3	060000	7.4	101500	113	143000	83	184500	39	230000	26
020000	2.3	061500	8.3	103000	125	144500	78	190000	37	231500	26
021500	2.3	063000	8.9	104500	123	150000	76	191500	36	233000	26
023000	2.3	064500	11	110000	122	151500	70	193000	35	234500	25
024500	2.3	070000	16	111500	127	153000	67	194500	35	240000	23
030000	2.3	071500	21	113000	126	154500	63	200000	35		
031500	2.3	073000	26	114500	126	160000	62	201500	32		
033000	2.4	074500	31	120000	124	161500	58	203000	34		
034500	2.6	080000	35	121500	120	163000	56	204500	31		
040000	2.6	081500	39	123000	116	164500	52	210000	30		
041500	2.8	083000	43	124500	118	170000	51	211500	31		

FIVEMILE RIVER BASIN

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01209775 KEELERS BROOK AT NORWALK, CT--Continued

DATE: APR. 10, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	6.9	034500	6.4	071500	6.4	104500	30	141500	149	174500	298
003000	6.7	040000	6.2	073000	6.4	110000	33	143000	170	180000	283
004500	6.9	041500	6.2	074500	6.7	111500	35	144500	196	181500	285
010000	6.9	043000	6.2	080000	7.2	113000	42	150000	216	183000	284
011500	6.7	044500	6.2	081500	7.7	114500	48	151500	231	184500	283
013000	6.7	050000	6.4	083000	7.7	120000	54	153000	242	190000	278
014500	6.7	051500	6.4	084500	7.7	121500	60	154500	255	191500	258
020000	6.4	053000	6.7	090000	8.6	123000	63	160000	270	193000	243
021500	6.4	054500	6.7	091500	9.9	124500	71	161500	277	194500	249
023000	6.7	060000	6.7	093000	12	130000	85	163000	273	200000	246
024500	6.4	061500	6.4	094500	13	131500	97	164500	287		
030000	6.4	063000	6.4	100000	16	133000	109	170000	292		
031500	6.4	064500	6.4	101500	21	134500	123	171500	282		
033000	6.4	070000	6.4	103000	26	140000	127	173000	294		

DATE: APR. 24, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	4.7	023000	4.5	044500	4.3	070000	5.1	091500	23	113000	108
003000	4.5	024500	4.5	050000	4.5	071500	5.1	093000	31	114500	112
004500	4.7	030000	4.5	051500	4.5	073000	5.5	094500	42	120000	118
010000	4.7	031500	4.7	053000	4.5	074500	6.0	100000	53	121500	125
011500	4.5	033000	4.3	054500	4.5	080000	7.2	101500	68	123000	126
013000	4.5	034500	4.5	060000	4.5	081500	9.2	103000	76	124500	126
014500	4.5	040000	4.5	061500	4.7	083000	11	104500	90	130000	122
020000	4.5	041500	4.5	063000	4.7	084500	14	110000	94		
021500	4.5	043000	4.5	064500	4.9	090000	17	111500	109		

DATE: JUNE 4, 1983

TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND	TIME HR MIN SEC	DIS- CHARGE, IN CUBIC FEET PER SECOND
001500	2.6	043000	150	084500	87	130000	39	171500	23	213000	113
003000	3.1	044500	149	090000	84	131500	41	173000	23	214500	108
004500	3.9	050000	141	091500	77	133000	37	174500	24	220000	104
010000	5.1	051500	150	093000	70	134500	35	180000	28	221500	102
011500	6.2	053000	149	094500	68	140000	35	181500	63	223000	88
013000	8.0	054500	148	100000	62	141500	31	183000	87	224500	82
014500	12	060000	140	101500	61	143000	33	184500	88	230000	85
020000	17	061500	138	103000	59	144500	31	190000	92	231500	86
021500	29	063000	130	104500	55	150000	30	191500	103	233000	80
023000	44	064500	122	110000	52	151500	30	193000	109	234500	72
024500	60	070000	122	111500	49	153000	29	194500	111	240000	69
030000	78	071500	106	113000	48	154500	27	200000	115		
031500	110	073000	106	114500	46	160000	25	201500	118		
033000	125	074500	103	120000	45	161500	26	203000	122		
034500	135	080000	91	121500	42	163000	24	204500	117		
040000	142	081500	93	123000	43	164500	24	210000	116		
041500	150	083000	87	124500	38	170000	23	211500	113		

FIVEMILE RIVER BASIN

410526073261101 RAIN GAGE AT BROOKSIDE SCHOOL AT NORWALK, CT

LOCATION.--Lat 41°05'26", long 73°26'11", Fairfield County, Hydrologic Unit 01100006, on northwest end of roof of Brookside Elementary School, on Flax Hill Road in Keelers Brook drainage basin, 0.5 mi (0.8 km) northeast of gage on Keelers Brook, at Norwalk.

PERIOD OF RECORD.--July 17, 1980 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records excellent. Only records of major storm events are published for this station between March 1 to December 1. The rainfall data are recorded at 5-minute intervals and are available in the files of the Hartford office of the U.S. Geological Survey but these data are published at 15-minute intervals.

EXTREMES FOR PERIOD OF RECORD.--Maximum rainfall for 5 minutes, 0.27 in (6.86 mm) Oct. 9, 1982; maximum for 15 minutes, 0.51 in (13.0 mm) Sept. 2, 1980; maximum for 30 minutes, 0.70 in (17.8 mm) Aug. 23, 1982; maximum hourly, 0.86 in (21.8 mm) Sept. 2, 1980; maximum daily, 3.14 in (79.8 mm) Apr. 16, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum rainfall for 5 minutes, 0.27 in (6.86 mm) Oct. 9; maximum for 15 minutes, 0.38 in (9.65 mm) Oct. 9; maximum for 30 minutes, 0.38 in (9.65 mm) Oct. 9, Apr. 10; maximum hourly, 0.72 in (18.3 mm) Apr. 10; maximum daily, 3.14 in (79.8 mm) Apr. 16.

DATE: APR. 10, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
044500	0.01	071500	0.01	094500	0.03	121500	0.03	144500	0.18	171500	0.02
050000	0.02	073000	0.000	100000	0.09	123000	0.04	150000	0.16	173000	0.04
051500	0.000	074500	0.000	101500	0.06	124500	0.05	151500	0.09	174500	0.09
053000	0.01	080000	0.03	103000	0.06	130000	0.09	153000	0.08	180000	0.07
054500	0.000	081500	0.01	104500	0.04	131500	0.07	154500	0.10	181500	0.01
060000	0.000	083000	0.01	110000	0.02	133000	0.11	160000	0.05	183000	0.01
061500	0.000	084500	0.000	111500	0.01	134500	0.07	161500	0.04		
063000	0.000	090000	0.05	113000	0.04	140000	0.04	163000	0.05		
064500	0.000	091500	0.03	114500	0.07	141500	0.20	164500	0.09		
070000	0.000	093000	0.04	120000	0.04	143000	0.18	170000	0.11		

DATE: APR. 16, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
081500	0.01	104500	0.03	131500	0.12	154500	0.05	181500	0.07	204500	0.01
083000	0.04	110000	0.05	133000	0.10	160000	0.04	183000	0.07	210000	0.01
084500	0.03	111500	0.11	134500	0.10	161500	0.03	184500	0.05	211500	0.01
090000	0.03	113000	0.07	140000	0.06	163000	0.10	190000	0.03	213000	0.01
091500	0.02	114500	0.14	141500	0.08	164500	0.10	191500	0.02		
093000	0.02	120000	0.08	143000	0.08	170000	0.13	193000	0.04		
094500	0.02	121500	0.10	144500	0.07	171500	0.06	194500	0.03		
100000	0.02	123000	0.16	150000	0.07	173000	0.06	200000	0.01		
101500	0.02	124500	0.12	151500	0.06	174500	0.10	201500	0.01		
103000	0.03	130000	0.12	153000	0.03	180000	0.10	203000	0.01		

FIVEMILE RIVER BASIN

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410526073261101 RAIN GAGE AT BROOKSIDE SCHOOL AT NORWALK, CT--Continued

DATE: APR. 24, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
034500	0.01	071500	0.11	104500	0.02	141500	0.000	174500	0.000	211500	0.000
040000	0.000	073000	0.13	110000	0.03	143000	0.000	180000	0.000	213000	0.000
041500	0.02	074500	0.13	111500	0.04	144500	0.000	181500	0.000	214500	0.000
043000	0.03	080000	0.11	113000	0.06	150000	0.01	183000	0.000	220000	0.01
044500	0.01	081500	0.11	114500	0.06	151500	0.000	184500	0.000	221500	0.000
050000	0.000	083000	0.05	120000	0.02	153000	0.000	190000	0.01	223000	0.000
051500	0.01	084500	0.02	121500	0.03	154500	0.000	191500	0.000	224500	0.000
053000	0.03	090000	0.02	123000	0.07	160000	0.01	193000	0.000	230000	0.000
054500	0.03	091500	0.02	124500	0.05	161500	0.01	194500	0.000	231500	0.000
060000	0.04	093000	0.04	130000	0.05	163000	0.01	200000	0.000	233000	0.000
061500	0.06	094500	0.08	131500	0.04	164500	0.02	201500	0.000	234500	0.000
063000	0.06	100000	0.06	133000	0.000	170000	0.04	203000	0.000	240000	0.01
064500	0.05	101500	0.01	134500	0.000	171500	0.000	204500	0.000		
070000	0.07	103000	0.02	140000	0.000	173000	0.000	210000	0.000		

DATE: SEP. 21, 1983

TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)	TIME HR MIN SEC	PRECIP- ITATION DAILY (IN)
150000	0.009	164500	0.000	183000	0.000	201500	0.02	220000	0.05	234500	0.03
151500	0.000	170000	0.000	184500	0.000	203000	0.05	221500	0.04	240000	0.02
153000	0.000	171500	0.000	190000	0.009	204500	0.12	223000	0.04		
154500	0.000	173000	0.000	191500	0.04	210000	0.17	224500	0.02		
160000	0.000	174500	0.000	193000	0.03	211500	0.06	230000	0.04		
161500	0.000	180000	0.000	194500	0.05	213000	0.16	231500	0.04		
163000	0.000	181500	0.000	200000	0.03	214500	0.21	233000	0.05		

LONG ISLAND SOUND

01209788 STAMFORD HURRICANE BARRIER AT STAMFORD, CT

LOCATION.--Lat 41°02'13", long 73°32'06", Fairfield County, Hydrologic Unit 01100006, at control tower of U.S. Army Corps of Engineers hurricane barrier, near Woodland Cemetery, at South end of Stamford, in Long Island Sound.

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

GAGE.--Water-stage recorder. Datum of staff gage is set at National Geodetic Vertical Datum of 1929. Datum of gage height record is 10.00 ft (3.048 m) below National Geodetic Vertical Datum, in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request. Missing record June 6 to August 29.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 9.70 ft (2.957 m) Feb. 6, 1978; minimum, -7.94 ft (-2.420 m) Feb. 2, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum tidal elevation, 11.0 ft (3.35 m) Sept. 21, 1938, at site 0.3 mi (0.5 km) west in Stamford Harbor and at same datum, gage operated by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation, 7.40 ft (2.256 m) Jan. 29; minimum, -5.03 ft (-1.533 m) Nov. 1.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	6.13	6.17	6.02	7.40	6.11	6.47	6.25	6.20	5.15	--	5.05	6.18
	Date	10	3	1	29	26	19	16	26	5	--	29	6
	Time	0430	1215	1015	1100	1000	0145	0015	2245	1830	--	1445	2215
Minimum low tide	Elevation	-4.93	-5.03	-4.65	-4.13	-3.40	-4.92	-4.00	-3.88	-2.36	--	-2.26	-4.11
	Date	31	1	29	1	27 28	29	15	16	1	--	29	8
	Time	1630	1715	1645	0630	1745 0545	1815	1200	0815	0930	--	2115	0600

NOTE.--Time shown is eastern standard.

LONG ISLAND SOUND

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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 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	SALINITY (PPT)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 17...	1340	41000	7.5	27.0	12.0	11.5	2.0	9.0	80	K17	K8
JAN 12...	1400	43000	7.8	28.0	5.0	6.0	2.3	12.0	96	K13	60
MAY 20...	1040	33300	8.1	21.0	15.0	12.0	1.1	10.2	104	45	48
JUL 18...	1045	36000	7.8	20.0	27.0	23.0	1.3	11.4	146	54	380

DATE	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 17...	3700	3600	110	840	97	1800	15000	2.1	26700	17800
JAN 12...	4900	4800	140	1100	94	1700	16000	1.9	28200	19000
MAY 20...	4200	4100	280	850	86	1400	--	0.6	25200	2580
JUL 18...	4100	4000	250	850	88	1800	--	1.5	26000	2950

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 17...	36.3	28200	0.13	0.07	0.2	1.40	--	--	0.2	0.37
JAN 12...	38.4	30100	0.08	0.02	0.1	0.26	0.04	0.3	0.4	0.14
MAY 20...	34.3	27100	0.09	<0.01	<0.1	0.15	0.25	0.4	0.5	0.19
JUL 18...	35.4	27400	0.09	<0.01	<0.1	0.11	0.39	0.5	0.6	0.26

DATE	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	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)	NICKEL, DIS-SOLVED (UG/L AS Ni)	ZINC, DIS-SOLVED (UG/L AS Zn)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	0.33	2	<1	27	90	2	230	8	50	2.7
JAN 12...	0.12	4	5	2	110	2	80	2	30	2.3
MAY 20...	0.12	3	1	7	100	1	60	2	30	2.5
JUL 18...	0.21	2	<1	5	160	4	90	8	30	4.1

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 1983

Annual maximum discharge at crest-stage partial-record stations during water year 1900					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	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	1962-83	6-05-82	5.23	720
					4-10-83	3.90	225
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	1960-83	6-05-82	4.56	920
					4-19-83	3.45	295
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	1964-83	1-25-79	4.92	150
					4-19-83	3.75	85
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", Tolland County, 1,500 feet downstream from Hop River village near Columbia.	74.8	1933-71††, 1972-83	6-06-82	16.72	6940
					3-22-80	14.02	4470
					4-10-83	12.52	3290
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	1964-83	6-05-82	4.88	1020
					4-19-83	3.84	440
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	1962-83	6-05-82	7.55	1200
					4-10-83	2.05	52
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	1964-83	4-02-70	5.16	850
					4-10-83	3.82	240
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	1964-83	1-26-78	4.51	950
					4-19-83	3.66	450
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††, 1972-83	3-12-36	--	1600
					7-24-38	8.52	2480
					6-06-82	6.16	1340
					4-20-83	5.12	967

†† Operated as a continuous-record gaging station.

† Peak-flow determination.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water 1983--Continued

Annual maximum discharge at crest-stage partial-record stations during water 1965--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						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††, 1972-83	3-12-36 4-20-83	8.35 5.75	4260 1980
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	1961-81, 1982†-83	6-05-82 4-10-83	9.24 4.14	1280 180
Connecticut River basin							
01183993	Freshwater Brook near Enfield	Lat 41°59'57", long 72°33'25", Hartford County, at bridge on Elm Street, 2.3 miles northeast of Enfield.	7.49	1955† 1980-83	8-19-55 6-06-82 2-24-81 4-19-83	-- 4.60 5.13 4.23	3500 410 670 rev. 300
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	1964-83	12-21-73 4-19-83	5.92 3.95	620 215
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††, 1970-83	9-27-75 4-19-83	6.38 4.55	375 180
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††, 1972-83	8-19-55 4-11-80 2-26-81 6-07-82 4-20-83	19.9 9.48 6.30 9.97 10.08	13,300 1700 rev. 840 rev. 1850 rev. 1950
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††, 1973-83	8-19-55 3-22-80 3-19-83	-- 6.94 5.50	c10,000 2120 1300
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 1977-83	6-05-82 3-19-83	3.14 1.88	900 230
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††, 1972-83	6-05-82 3-19-83	4.01 2.83	390 230
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††, 1972-83	10-3-79 2-04-81 6-05-82 4-10-83	11.62 7.01 9.46 9.01	2400 360 rev. 1150 rev. 840
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††, 1972-83	9-12-60 10-3-79 4-10-83	6.70 7.23 6.19	460 435 410
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	1965-83	12-21-73 4-19-83	4.52 4.14	600 320
01192690	Shultz Pond Brook at New Britain	Lat 41°39'25", long 72°48'27", Hartford County, at bridge on Oakwood Street, on south edge of New Britain.	3.39	1955† 1980-83	8-19-55 6-05-82 4-10-83	-- 2.78 2.27	250 135 68

†† 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 1983--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							
01192691	Mason Pond Brook at New Britain	Lat 41°39'11", long 72°47'56", Hartford County, at Shuttle Meadow Avenue, on south edge of New Britain.	1.33	1955† Sept. 1971 to July 1972; 1980-83	8-19-55 6-05-82 2-21-81 4-10-83	- 9.66 4.91 7.49	600 415 138 rev. 219
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	1960-83	6-05-82 4-10-83	5.76 4.36	517 225
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	1960-83	6-05-82 4-19-83	5.66 4.54	480 315
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†† 1967-81, 1982†-83	6-06-82 4-10-83	11.12 7.18	5800 1700
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	1962-81, 1982†-83	6-06-82 4-10-83	9.89 7.11	5020 1850
Housatonic River basin							
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, 1979-83	8-10-76 3-21-80 4-19,24,83	2.11 2.50 1.87	164 520 62
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††, 1967-71††, 1972-83	d10-16-55 3-19-83	14.11 6.48	7890 2360
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, 1977-83	6-05-82 3-19-83	6.26 4.80	860 290
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††, 1972-83	8-19-55 3-19-83	17.2 7.21	50,300 3380
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	1961-83	9-26-75 3-19-83	7.82 5.56	c1600 920
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††, 1974-83	1-25-79 3-19-83	8.47 7.90	2720 2160
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	1962-83	9-26-75 6-05-82 3-19-83	4.61 3.20 3.01	c 670 rev. 320 rev. 270

†† Operated as a continuous-record gaging station.

† Peak-flow determination.

c Estimate.

d Formerly station no. 01201500, 2 miles upstream; drainage area 67.5 mi².

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis- charge (ft ³ /s)
Housatonic River basin--Continued							
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††, 1974-83	3-21-80 3-19-83	9.63 7.58	2130 7800
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	1960-83	6-05-82 3-19-83	6.47 4.69	1350 330
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††, 1967-83	10-16-55 4-10-80 4-10-83	- 8.29 5.72	4500 2100 1150
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	1960-83	6-05-82 4-10-83	8.33 6.03	148 100
Norwalk River basin							
01209670	Bryant Brook at Wilton	Lat 41°11'19", long 73°25'10", Fairfield County, at bridge on Sharp Hill Road, 0.95 mile southeast of Wilton.	0.96	1980-83	†4-10-80 1-04-82 4-10-83	2.30 1.21 1.87	265 rev. 10 rev. 105
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† 1962-83	10-16-55 4-10-80 4-10-83	- 5.92 4.84	3250 1050 720
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††, 1970-83	6-19-72 4-16-83	7.62 5.13	1700 610

†† Operated as a continuous-record gaging station.

† Peak-flow determination.

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 1983

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Thames River Basin						
01121335 Fenton River	Mount Hope River	Lat 41°49'33", long 72°14'20", Tolland County, in Univ. of Conn. well field, Gurleyville.	-	-	9-27-83	2.41
01121337 Fenton River	Mount Hope River	Lat 41°49'15", long 72°13'47", Tolland County, 500 ft above Fishers Brook, Gurleyville.	-	-	9-27-83	2.13
01125440 Mill Brook	Little River	Lat 41°56'25", long 71°57'28", Windham County, at Stone Bridge Road, at South Woodstock (discontinued).	6.84	1961-63(b) 1982	12-8-82 2-3-83(a) 4-20-83 6-1-83 7-22-83 9-13-83	4.82 198 140 32.4 1.22 .221
01125455 Little River	Quinebaug River	Lat 41°56'34", long 71°57'00", Windham County, at Stone Bridge Road, at South Woodstock (discontinued).	31.1	1962(b) 1982	12-8-82 2-3-83(a) 6-1-83 7-21-83 9-13-83	21.0 491 192 8.96 3.75
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(c) 1974-82	12-6-82 4-5-83 7-28-83 8-25-83	334 1400 63.6 169
Connecticut River Basin						
01172003 Connecticut River	Long Island Sound	Lat 42°12'36", long 72°35'44", Hampden County, 2200 ft downstream of dam of Holyoke Water Power Co. in Holyoke, Mass.	8,309	1982	7-23-82 8-26-82 9-21-82 1-28-83 3-10-83 4-21-83 5-27-83 6-21-83 7-20-83 8-17-83 9-8-83	3,030 1,150 642 11,200 19,500 46,000 22,900 4,960 2,680 3,540 984
01192375 Porter Brook	Hop Brook	Lat 41°45'49", long 72°30'30", Hartford County, 50 ft downstream of bridge at Sycamore Road in Manchester.	-	-	9-26-83	0.65
Hammonasset River Basin						
01195146 Pond Meadow Brook	Hammonasset River	Lat 41°22'57", long 72°35'22", Middlesex County, at Abner Lane, 700 ft downstream from route 148, 2.1 miles northwest of Killingworth.	5.92	-	1-11-83 2-3-83 5-5-83 7-21-83	47.0 104 24.8 .634
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	1978-82	12-8-82 3-23-83 6-1-83 8-1-83 9-26-83	1.48 32.4 25.2 .863 .918
01196600 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(d) 1978-82	12-8-82 3-23-83 6-1-83 8-1-83 9-26-83	5.78 67.3 40.7 6.93 4.47

a Water-quality samples collected (see section "Analysis of samples collected at miscellaneous sites").

b Operated as a low-flow station

c Operated as a continuous-record gaging station

d Operated as a low-flow and crest-stage station

Discharge measurements made at miscellaneous sites during water year 1983.--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Housatonic River Basin						
012035035 Pootatuck River	Housatonic River	Lat 41°23'49", long 73°16'02", Fairfield County, near Berkshire.	-	-	9-23-83	4.36
012035045 Pootatuck River	Housatonic River	Lat 41°24'10", long 73°16'02", Fairfield County, at Berkshire.	-	-	9-29-83	2.08
01208171 Naugatuck River	Housatonic River	Lat 41°33'26", long 73°03'17", New Haven County, at West Main Street at Waterbury.	174	-	11-4-82 11-22-82 2-1-83 2-3-83 4-20-83 6-7-83 8-2-83 9-19-83	65.1 114 374 1,331 1,840 479 173 22.2
01208459 Beacon Hill Brook	Naugatuck River	Lat 41°27'58", long 73°00'33", New Haven County, at Horton Hill Rd., nr Straitsville.	-	-	9-23-83	0.97
01208467 Beacon Hill Brook	Naugatuck River	Lat 41°28'00", long 73°01'03", New Haven County, 1/4 mile below Marks Brook at Staitsville.	-	-	9-23-83	0.94
Hudson River Basin						
01374720 Titicus River	Croton River	Lat 41°17'37", long 73°30'16", Fairfield County, at State Rt. 116 nr Ridgefield.	-	-	8-30-83	0.291
01374730 Unnamed stream	Titicus River	Lat 41°19'17", long 73°30'09", Fairfield County, 600 ft above Lake Naraneka, nr Ridgefield.	-	-	8-30-83	0.046
01374750 Titicus River	Croton River	Lat 41°19'43", long 73°31'21", Fairfield County, below Lake Naraneka, nr Ridgefield.	-	-	8-30-83	0.191
01374760 Mopus Brook	Titicus River	Lat 41°20'21", long 73°32'34", Fairfield County, 2000 ft above Mopus Bridge Rd., nr Ridgebury.	-	-	8-30-83	0.160
01374765 Mopus Brook	Titicus River	Lat 41°20'15", long 73°32'29", Fairfield County, 1200 ft above Mopus Bridge Rd., nr Ridgebury.	-	-	8-30-83	0.201
01374770 Titicus River	Croton River	Lat 41°20'06", long 73°33'12", Westchester County, 0.32 miles west of N.Y.-Conn. state line, nr North Salem, N.Y.	-	-	8-30-83	0.940

WATER-QUALITY PARTIAL-RECORD STATIONS

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are particular sites where chemical-quality, biological, and or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

THAMES RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	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)
01125435 TRIBUTARY TO MILL BK AT WOODSTOCK, CT (LAT 41 56 28 LONG 071 58 22)										
FEB 1983										
02...	2000	1.4	157	7.2	1.7	0.01	1.7	0.04	0.96	1.00
02...	2200	1.7	153	7.2	--	<0.01	1.6	0.02	0.58	0.6
03...	0200	6.8	141	7.4	1.5	0.01	1.5	0.04	0.46	0.5
03...	0400	15	97	7.2	1.1	0.02	1.1	0.06	0.44	0.5
03...	0600	18	80	6.8	1.2	0.03	1.2	0.11	0.59	0.7
03...	0800	26	85	6.9	1.2	0.02	1.2	0.04	0.36	0.4
MAR										
19...	0815	8.4	98	6.8	1.1	0.01	1.1	0.07	0.33	0.4
19...	1445	8.2	104	6.8	1.4	<0.01	1.4	0.06	0.34	0.4
APR										
24...	1315	6.7	136	6.5	0.99	0.01	1.0	1.20	1.4	2.60
01125436 TRIBUTARY TO MILL BK AT SOUTH WOODSTOCK, (LAT 41 56 16 LONG 071 58 17)										
FEB 1983										
02...	2000	1.4	151	7.3	1.7	0.01	1.7	0.07	0.53	0.6
02...	2200	1.7	144	7.3	1.6	0.01	1.6	0.09	0.41	0.5
03...	0200	6.8	105	7.3	1.1	0.01	1.1	0.09	0.91	1.00
03...	0400	15	88	7.1	0.78	0.02	0.8	0.07	0.83	0.9
03...	0600	18	72	7.0	0.87	0.03	0.9	0.07	1.1	1.20
03...	0800	26	80	7.1	1.2	0.03	1.2	0.09	0.81	0.9
MAR										
19...	0820	8.4	99	6.8	1.1	0.02	1.1	0.16	0.24	0.4
19...	1445	8.2	109	6.9	1.4	0.01	1.4	0.07	0.33	0.4
APR										
24...	1315	6.7	171	6.7	0.9	0.00	0.9	3.20	5.8	9.00
01125440 MILL BK AT S WOODSTOCK CT (LAT 41 56 25 LONG 071 57 28)										
NOV 1982										
05...	1000	18	107	6.9	0.39	0.01	0.4	0.03	0.87	0.9
FEB 1983										
03...	1130	170	67	6.8	0.49	0.01	0.5	0.05	0.45	0.5
MAR										
19...	0900	115	72	6.9	0.49	<0.01	0.5	0.13	0.47	0.6
19...	1530	180	65	6.8	0.49	<0.01	0.5	0.07	0.43	0.5
APR										
24...	1355	92	83	6.5	0.29	<0.01	0.3	0.62	1.5	2.10
01125455 LITTLE R AT STONE BRIDGE RD AT S. WOODSTOCK (LAT 41 56 34 LONG 071 57 00)										
NOV 1982										
05...	1015	56	102	6.8	0.19	0.01	0.2	0.07	0.63	0.7
FEB 1983										
03...	1140	220	77	6.8	0.59	0.01	0.6	0.05	0.85	0.9
MAR										
19...	0915	125	82	6.9	0.59	<0.01	0.6	0.08	0.42	0.5
19...	1545	155	64	6.8	0.59	0.01	0.6	0.09	0.21	0.3
APR										
24...	1340	140	73	6.6	0.59	<0.01	0.6	0.02	0.28	0.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

THAMES RIVER BASIN--Continued

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS, HYDRO- LYZABLE DIS. (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
01125435 TRIBUTARY TO MILL BK AT WOODSTOCK, CT (LAT 41 56 28 LONG 071 58 22)										
FEB 1983										
02...	2.7	0.04	0.02	0.02	0.06	0.00	0.02	0.00	7	0.03
02...	2.2	0.03	0.02	0.02	0.06	0.00	0.02	0.00	6	0.03
03...	2.0	0.06	0.02	0.02	0.06	0.00	0.02	0.00	14	0.26
03...	1.6	0.10	0.02	0.03	0.09	0.00	0.02	0.00	48	1.9
03...	1.9	0.17	0.03	0.02	0.06	0.01	0.03	0.00	76	3.7
03...	1.6	0.10	0.02	0.02	0.06	0.00	0.02	0.00	46	3.2
MAR										
19...	1.5	0.04	0.02	0.02	0.06	0.00	0.02	0.00	24	0.54
19...	1.8	0.04	0.02	0.02	0.06	0.00	0.02	0.00	13	0.29
APR										
24...	3.6	0.48	0.32	0.43	1.3	0.00	0.32	0.00	10	0.18
01125436 TRIBUTARY TO MILL BK AT SOUTH WOODSTOCK, (LAT 41 56 16 LONG 071 58 17)										
FEB ..83										
02...	2.3	0.06	0.03	0.03	0.09	0.00	0.03	0.00	11	0.04
02...	2.1	0.10	0.03	0.03	0.09	0.00	0.03	0.00	45	0.21
03...	2.1	0.36	0.06	0.07	0.21	0.00	0.06	0.00	254	4.7
03...	1.7	0.33	0.06	0.06	0.18	0.00	0.06	0.00	326	13
03...	2.1	0.06	0.07	0.06	0.18	0.00	0.06	0.01	402	20
03...	2.1	0.28	0.04	0.04	0.12	0.00	0.04	0.00	315	22
MAR										
19...	1.5	0.05	0.03	0.02	0.06	0.00	0.02	0.01	81	1.8
19...	1.8	0.04	0.03	0.02	0.06	0.00	0.02	0.01	24	0.53
APR										
24...	9.9	1.30	1.10	1.20	3.7	0.00	1.1	0.00	37	0.67
01125440 MILL BK AT S WOODSTOCK CT (LAT 41 56 25 LONG 071 57 28)										
NOV 1982										
05...	1.3	0.10	0.02	0.02	0.06	0.00	0.02	0.00	33	1.6
FEB 1983										
03...	1.0	0.12	0.03	0.04	0.12	0.00	0.03	0.00	70	32
MAR										
19...	1.1	0.06	0.04	0.03	0.09	0.00	0.03	0.01	51	16
19...	1.0	0.05	0.03	0.02	0.06	0.00	0.02	0.01	51	25
APR										
24...	2.4	0.28	0.15	0.20	0.61	0.00	0.15	0.00	53	13
01125455 LITTLE R AT STONE BRIDGE RD AT S. WOODSTOCK (LAT 41 56 34 LONG 071 57 00)										
NOV 1982										
05...	0.9	0.07	<0.01	<0.01	0.03	--	<0.01	--	37	5.6
FEB 1983										
03...	1.5	0.10	0.03	0.04	0.12	0.00	0.03	0.00	30	18
MAR										
19...	1.1	0.03	0.02	0.01	0.03	0.01	0.02	0.00	15	5.1
19...	0.9	0.03	0.02	0.02	0.06	0.00	0.02	0.00	7	2.9
APR										
24...	0.9	0.04	0.01	0.01	0.03	0.00	0.01	0.00	3	1.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

THAMES RIVER BASIN--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	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)
01125475 TRIBUTARY TO PEAKE BROOK AT S. WOODSTOCK (LAT 41 55 48 LONG 071 57 17)											
NOV 1982											
04...	1430	0.26	82	7.2	--	--	0.49	0.01	0.5	0.09	0.91
04...	1530	0.11	103	6.7	--	--	0.69	0.01	0.7	0.07	1.2
04...	2330	0.08	162	6.8	--	--	0.59	0.01	0.6	0.06	0.54
05...	0030	0.15	68	6.5	--	--	0.48	0.02	0.5	0.10	1.7
05...	0130	0.2	75	6.5	--	--	0.48	0.02	0.5	0.03	0.87
05...	0930	0.32	89	6.5	--	--	0.58	0.02	0.6	0.10	0.8
FEB 1983											
02...	1900	0.16	223	7.4	--	--	0.59	<0.01	0.6	0.02	0.38
02...	2100	0.25	207	7.6	--	--	0.59	<0.01	0.6	0.06	0.34
02...	2200	0.28	193	7.5	--	--	0.59	<0.01	0.6	0.07	0.43
02...	2300	0.34	186	7.5	--	--	0.69	<0.01	0.7	0.12	0.28
03...	0100	1.3	156	7.3	--	--	0.55	0.05	0.6	0.14	1.2
03...	0200	4.2	88	7.2	--	--	0.39	0.01	0.4	0.08	1.5
03...	0300	5.4	80	7.0	--	--	0.49	0.01	0.5	0.05	1.2
03...	0400	8.9	67	7.0	--	--	0.39	0.01	0.4	0.06	0.84
03...	0500	6.9	72	7.0	--	--	0.39	0.01	0.4	0.05	0.85
MAR											
19...	0030	0.13	203	7.0	--	--	0.69	<0.01	0.7	0.19	0.31
19...	0230	0.28	142	7.0	--	--	0.39	<0.01	0.4	0.12	0.38
19...	0430	0.89	93	7.0	--	--	0.29	<0.01	0.3	0.10	0.5
APR											
24...	1245	3.8	44	6.3	--	--	0.09	0.01	<0.1	0.07	1.0
MAY											
27...	0800	0.38	92	6.7	7200	E32000	0.56	0.04	0.6	0.18	3.3
27...	0900	0.36	96	7.0	--	--	0.49	0.01	0.5	0.18	2.4
27...	1130	0.95	108	7.1	--	--	0.49	0.01	0.5	0.14	2.1
27...	1230	1.5	73	6.7	--	--	0.28	0.02	0.3	0.18	1.9
27...	1400	2.0	85	6.8	10000	90000	0.19	0.01	0.2	0.10	1.6
JUN											
28...	1300	0.55	63	6.7	--	--	0.54	0.06	0.6	0.07	1.1
AUG											
11...	2345	0.03	153	6.7	--	--	1.2	0.17	1.4	0.14	1.6
12...	0345	0.02	138	7.1	--	--	0.41	0.19	0.6	0.14	0.66
12...	0445	0.04	115	6.9	--	--	1.1	0.02	1.1	0.30	0.6
01125476 TRIBUTARY TO PEAKE BROOK AT HARRISVILLE, (LAT 41 55 50 LONG 071 57 05)											
NOV 1982											
04...	1430	0.26	110	6.9	--	--	0.39	0.01	0.4	0.04	1.6
04...	1530	0.11	125	6.8	--	--	0.69	0.01	0.7	0.05	0.95
04...	2330	0.08	190	7.0	--	--	0.27	0.03	0.3	0.08	2.5
05...	0030	0.15	149	6.6	--	--	0.43	0.07	0.5	0.26	12
05...	0130	0.2	116	6.8	--	--	0.75	0.05	0.8	0.14	5.6
05...	0930	0.32	96	6.8	--	--	0.78	0.02	0.8	0.04	1.3
FEB 1983											
02...	1900	0.16	238	7.6	--	--	0.89	0.01	0.9	0.05	0.15
02...	2100	0.25	221	7.6	--	--	0.79	0.01	0.8	0.10	0.6
02...	2200	0.28	219	7.5	--	--	0.79	0.01	0.8	0.16	0.44
02...	2300	0.34	207	7.2	--	--	0.79	0.01	0.8	0.14	0.36
03...	0100	1.3	193	7.4	--	--	0.79	0.01	0.8	0.12	0.98
03...	0200	4.2	152	6.7	--	--	0.65	0.05	0.7	1.10	3.5
03...	0300	5.4	91	6.6	--	--	0.58	0.02	0.6	0.18	2.0
03...	0400	8.9	73	7.1	--	--	0.48	0.02	0.5	0.11	1.8
03...	0500	6.9	80	6.7	--	--	0.58	0.02	0.6	0.07	0.93
MAR											
19...	0030	0.13	215	7.0	--	--	0.87	0.03	0.9	0.25	1.7
19...	0230	0.28	154	7.0	--	--	0.68	0.02	0.7	0.14	1.2
19...	0430	0.89	115	7.0	--	--	0.67	0.03	0.7	0.43	2.3
APR											
24...	1245	3.8	50	6.3	--	--	0.19	0.01	0.2	0.11	1.2
MAY											
27...	0800	0.38	109	6.4	--	E95000	1.2	0.04	1.2	0.62	2.1
27...	0900	0.36	120	6.9	--	--	1.1	0.03	1.1	0.50	0.9
27...	1130	0.95	110	7.0	--	--	0.78	0.02	0.8	0.27	0.83
27...	1230	1.5	105	6.8	--	--	0.67	0.03	0.7	0.39	2.8
27...	1400	2.0	88	6.7	74000	E10000	0.38	0.02	0.4	0.16	2.0
JUN											
28...	1300	0.55	97	6.7	--	--	2.1	0.07	2.2	0.47	1.5
AUG											
11...	2345	0.03	228	6.9	--	--	4.3	0.11	4.4	0.69	2.0
12...	0345	0.02	200	6.9	--	--	2.5	0.08	2.6	0.61	1.8
12...	0445	0.04	183	6.9	--	--	2.4	0.05	2.4	0.36	1.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

THAMES RIVER BASIN--Continued

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS, HYDRO- LYZABLE DIS. (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
01125475 TRIBUTARY TO PEAKE BROOK AT S. WOODSTOCK (LAT 41 55 48 LONG 071 57 17)											
NOV 1982											
04...	1.00	1.5	0.20	0.04	0.03	0.09	0.01	0.04	0.00	54	0.04
04...	1.30	2.0	0.05	0.03	0.02	0.06	0.01	0.03	0.00	11	0.00
04...	0.6	1.2	0.05	0.02	<0.01	0.03	0.00	0.02	0.00	7	0.00
05...	1.80	2.3	0.24	0.07	0.05	0.15	0.02	0.07	0.00	57	0.02
05...	0.9	1.4	0.16	0.07	0.09	0.28	0.00	0.07	0.00	17	0.01
05...	0.9	1.5	0.21	0.09	0.15	0.46	0.00	0.09	0.00	9	0.01
FEB 1983											
02...	0.4	1.0	0.03	0.01	0.02	0.06	0.00	0.01	0.00	70	0.03
02...	0.4	1.0	0.04	0.02	0.02	0.06	0.00	0.02	0.00	15	0.01
02...	0.5	1.1	0.05	0.02	0.03	0.09	0.00	0.02	0.00	4	0.00
02...	0.4	1.1	0.05	0.02	0.03	0.09	0.00	0.02	0.00	11	0.01
03...	1.30	1.9	0.31	0.03	0.04	0.12	0.00	0.03	0.00	111	0.39
03...	1.60	2.0	0.22	0.03	0.04	0.12	0.00	0.03	0.00	99	1.1
03...	1.20	1.7	0.17	0.03	0.04	0.12	0.00	0.03	0.00	44	0.64
03...	0.9	1.3	0.20	0.03	0.04	0.12	0.00	0.03	0.00	108	2.6
03...	0.9	1.3	0.14	0.03	0.04	0.12	0.00	0.03	0.00	74	1.4
MAR											
19...	0.5	1.2	0.13	0.05	0.05	0.15	0.06	0.11	0.00	45	0.02
19...	0.5	0.9	0.05	0.04	0.03	0.09	0.00	0.03	0.01	29	0.02
19...	0.6	0.9	0.06	0.03	0.02	0.06	0.01	0.03	0.00	54	0.13
APR											
24...	1.10	1.2	0.23	0.02	0.02	0.06	0.00	0.02	0.00	77	0.79
MAY											
27...	3.50	4.1	0.15	0.05	0.02	0.06	0.02	0.04	0.01	1090	1.1
27...	2.60	3.1	0.12	0.04	0.02	0.06	0.02	0.04	0.00	385	0.37
27...	2.20	2.7	0.12	0.10	<0.01	0.03	--	0.03	0.07	267	0.68
27...	2.10	2.4	0.18	0.06	0.04	0.12	0.02	0.06	0.00	282	1.1
27...	1.70	1.9	0.17	0.09	0.06	0.18	0.03	0.09	0.00	291	1.6
JUN											
28...	1.20	1.8	0.07	0.07	0.04	0.12	0.03	0.07	0.00	62	0.09
AUG											
11...	1.70	3.1	0.15	0.06	0.01	0.03	0.05	0.06	0.00	65	0.01
12...	0.8	1.4	0.07	0.04	0.02	0.06	0.02	0.04	0.00	34	0.00
12...	0.9	2.0	0.08	0.06	0.03	0.09	0.03	0.06	0.00	9	0.00
01125476 TRIBUTARY TO PEAKE BROOK AT HARRISVILLE, (LAT 41 55 50 LONG 071 57 05)											
NOV 1982											
04...	1.60	2.0	0.41	0.12	0.21	0.64	0.00	0.12	0.00	22	0.02
04...	1.00	1.7	0.33	0.12	0.21	0.64	0.00	0.12	0.00	10	0.00
04...	2.60	2.9	0.93	0.22	0.45	1.4	0.00	0.22	0.00	32	0.01
05...	12.0	12	3.30	0.41	0.69	2.1	0.00	0.41	0.00	1000	0.4
05...	5.70	6.5	1.80	0.75	0.70	2.1	0.00	0.4	0.35	154	0.08
05...	1.30	2.1	0.29	0.12	0.23	0.71	0.00	0.12	0.00	12	0.01
FEB 1983											
02...	0.2	1.1	0.07	0.04	0.05	0.15	0.00	0.04	0.00	2	0.00
02...	0.7	1.5	0.09	0.04	0.06	0.18	0.00	0.04	0.00	4	0.00
02...	0.6	1.4	0.14	0.06	0.08	0.25	0.00	0.06	0.00	7	0.01
02...	0.5	1.3	0.12	0.06	0.07	0.21	0.00	0.06	0.00	8	0.01
03...	1.10	1.9	0.22	0.07	0.09	0.28	0.00	0.07	0.00	38	0.13
03...	4.60	5.3	1.80	0.29	0.35	1.1	0.00	0.29	0.00	529	6.0
03...	2.20	2.8	0.49	0.08	0.09	0.28	0.00	0.08	0.00	408	5.9
03...	1.90	2.4	0.49	0.06	0.08	0.25	0.00	0.06	0.00	258	6.2
03...	1.00	1.6	0.24	0.05	0.06	0.18	0.00	0.05	0.00	73	1.4
MAR											
19...	1.90	2.8	0.26	0.18	0.15	0.46	0.00	0.15	0.03	50	0.02
19...	1.30	2.0	0.15	0.09	0.08	0.25	0.00	0.07	0.02	39	0.03
19...	2.70	3.4	0.33	0.22	0.19	0.58	0.00	0.19	0.03	109	0.26
APR											
24...	1.30	1.5	0.29	0.04	0.05	0.15	0.00	0.04	0.00	94	0.96
MAY											
27...	2.70	3.9	0.47	0.34	0.24	0.74	0.09	0.33	0.01	585	0.6
27...	1.40	2.5	0.42	0.29	0.24	0.74	0.07	0.31	0.00	28	0.03
27...	1.10	1.9	0.21	0.13	0.11	0.34	0.04	0.15	0.00	14	0.04
27...	3.20	3.9	0.45	0.32	0.25	0.77	0.08	0.33	0.00	78	0.32
27...	2.20	2.6	0.35	0.19	0.13	0.4	0.06	0.19	0.00	270	1.5
JUN											
28...	2.00	4.2	0.33	0.35	0.30	0.92	0.05	0.35	0.00	197	0.29
AUG											
11...	2.70	7.1	0.85	0.63	0.57	1.7	0.05	0.62	0.01	15	0.00
12...	2.40	5.0	0.70	0.71	0.63	1.9	0.08	0.71	0.00	7	0.00
12...	1.60	4.0	0.54	0.56	0.50	1.5	0.06	0.56	0.00	4	0.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
THAMES RIVER BASIN											
01120620 MASHAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)											
AUG 1983 09...	1445	60	6.8	25.5	7.3	13	8	<0.1	5.0	3.0	1.3
01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)											
AUG 1983 16...	1400	140	7.5	21.5	11.0	26	8	--	--	7.0	2.0
01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)											
SEP 1983 07...	0930	--	--	--	--	--	--	--	--	--	--
CONNECTICUT RIVER BASIN											
01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)											
AUG 1983 10...	1000	120	7.8	26.5	7.4	41	10	--	--	11	3.4
01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)											
AUG 1983 10...	1600	45	7.0	26.5	7.9	--	--	--	--	--	--
HOUSATONIC RIVER BASIN											
01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)											
AUG 1983 24...	1400	300	7.0	24.5	9.2	150	13	--	--	32	18
01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)											
AUG 1983 22...	1300	90	8.9	24.5	8.3	31	9	0.1	5.0	7.9	2.8
01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)											
DEC 1982 03...	1330	--	--	--	--	--	--	--	--	--	--
03...	1335	--	--	--	--	--	--	--	--	--	--
01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)											
DEC 1982 03...	1200	--	--	--	--	--	--	--	--	--	--
03...	1205	--	--	--	--	--	--	--	--	--	--
03...	1245	--	--	--	--	--	--	--	--	--	--
03...	1250	--	--	--	--	--	--	--	--	--	--
01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)											
AUG 1983 23...	1245	35	7.1	22.5	7.6	9	3	<0.1	5.0	2.4	0.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
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THAMES RIVER BASIN.--Continued

01120620 MASHAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)

AUG 1983 09...	6.0	0.5	5.0	9.1	9.7	3.9	33	37	0.02	0.02	<0.1
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01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)

AUG 1983 16...	15	2.1	18	11	22	3.6	95	74	0.03	<0.01	<0.1
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01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)

SEP 1983 07...	--	--	--	--	--	--	--	--	--	--	--
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CONNECTICUT RIVER BASIN.--Continued

01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)

AUG 1983 10...	6.7	0.5	31	13	8.3	2.6	41	64	0.01	0.04	<0.1
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01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)

AUG 1983 10...	--	--	--	--	--	--	--	0.30	<0.01	0.04	<0.1
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HOUSATONIC RIVER BASIN.--Continued

01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)

AUG 1983 24...	4.1	1.6	141	9.9	8.0	3.6	185	162	<0.01	<0.01	0.2
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01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)

AUG 1983 22...	4.4	0.9	22	11	7.4	1.6	51	49	0.02	<0.01	<0.1
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01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)

DEC 1982 03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--

01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)

DEC 1982 03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--

01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)

AUG 1983 23...	2.1	0.4	6.0	7.0	2.9	1.0	27	20	0.03	<0.01	<0.1
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	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,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, TOTAL (MG/L AS N)
THAMES RIVER BASIN.--Continued										
01120620 MASHAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)										
AUG 1983 09...	<0.1	--	<0.01	0.03	0.79	0.8	0.4	0.4	--	0.9
01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)										
AUG 1983 16...	<0.1	--	0.03	0.01	1.2	1.20	0.7	0.5	--	1.3
01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)										
SEP 1983 07...	--	<2.0	--	--	--	--	--	--	6000	--
CONNECTICUT RIVER BASIN.--Continued										
01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)										
AUG 1983 10...	<0.1	--	<0.01	<0.01	0.19	0.2	0.00	0.2	--	0.3
01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)										
AUG 1983 10...	<0.1	--	<0.01	<0.01	0.09	<0.1	--	0.2	--	0.2
HOUSATONIC RIVER BASIN.--Continued										
01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)										
AUG 1983 24...	<0.1	--	<0.01	<0.01	0.49	0.5	0.00	0.8	--	0.7
01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)										
AUG 1983 22...	<0.1	--	<0.01	0.01	1.8	1.80	0.2	1.6	--	1.9
01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)										
DEC 1982 03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)										
DEC 1982 03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)										
AUG 1983 23...	<0.1	--	<0.01	0.02	1.1	1.10	0.4	0.7	--	1.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
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THAMES RIVER BASIN.--Continued

01120620 MASHAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)

AUG 1983 09...	<0.01	<0.01	<0.01	<0.01	--	50	--	--	--	--
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01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)

AUG 1983 16...	0.30	0.10	0.13	0.09	--	110	--	--	--	--
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01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)

SEP 1983 07...	--	--	--	--	1000	--	--	3	--	--
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CONNECTICUT RIVER BASIN.--Continued

01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)

AUG 1983 10...	0.01	<0.01	<0.01	<0.01	--	10	--	--	--	--
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01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)

AUG 1983 10...	<0.01	<0.01	0.03	<0.01	--	--	1	--	<1	<10
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HOUSATONIC RIVER BASIN.--Continued

01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)

AUG 1983 24...	0.01	0.01	<0.01	<0.01	--	60	--	--	--	--
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01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)

AUG 1983 22...	0.02	0.01	<0.01	<0.01	--	60	--	--	--	--
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01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)

DEC 1982 03... 03...	--	--	--	--	--	--	--	--	--	--
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01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)

DEC 1982 03... 03... 03... 03...	--	--	--	--	--	--	--	--	--	--
--	----	----	----	----	----	----	----	----	----	----

01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)

AUG 1983 23...	0.02	<0.01	<0.01	<0.01	--	80	--	--	--	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHROMIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
THAMES RIVER BASIN.--Continued										
01120620 MASHAPAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)										
AUG 1983 09...	--	--	--	--	--	16	--	--	4	--
01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)										
AUG 1983 16...	--	--	--	--	--	330	--	--	4	--
01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)										
SEP 1983 07...	--	--	--	8.00	5100	--	--	20	--	--
CONNECTICUT RIVER BASIN.--Continued										
01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)										
AUG 1983 10...	--	--	--	--	--	6.00	--	--	1	--
01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)										
AUG 1983 10...	--	2.00	9	--	--	78	2	--	7	<0.1
HOUSATONIC RIVER BASIN.--Continued										
01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)										
AUG 1983 24...	--	--	--	--	--	3.00	--	--	<1	--
01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)										
AUG 1983 22...	--	--	--	--	--	7.00	--	--	<1	--
01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)										
DEC 1982 03...	230	--	--	300	--	--	--	140	--	--
03...	120	--	--	90	--	--	--	60	--	--
01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)										
DEC 1982 03...	50	--	--	60	--	--	--	80	--	--
03...	100	--	--	70	--	--	--	40	--	--
03...	70	--	--	60	--	--	--	90	--	--
03...	10	--	--	10	--	--	--	10	--	--
01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)										
AUG 1983 23...	--	--	--	--	--	110	--	--	<1	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOT. IN BOTTOM MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
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THAMES RIVER BASIN.--Continued

01120620 MASHAUG POND NEAR UNION, CT. (LAT 42 00 48 LONG 072 07 59)

AUG 1983 09...	--	--	--	--	--	--	--	--	0.60	<0.10
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01124150 WEST THOMPSON LAKE AT WEST THOMPSON, CT. (LAT 41 56 40 LONG 071 54 00)

AUG 1983 16...	--	--	--	--	--	--	--	--	<0.10	<0.10
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01125450 ROSELAND LAKE AT SOUTH WOODSTOCK, CT (LAT 41 56 40 LONG 071 57 04)

SEP 1983 07...	0.05	--	--	--	36	95	0.1	95	--	--
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CONNECTICUT RIVER BASIN.--Continued

01192880 BESECK LAKE AT MIDDLEFIELD, CT. (LAT 41 30 45 LONG 072 43 40)

AUG 1983 10...	--	--	--	--	--	--	--	--	<0.10	<0.10
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01193860 CEDAR LAKE NEAR CHESTER, CT. (LAT 41 23 50 LONG 072 30 00)

AUG 1983 10...	--	--	<1	18	--	--	--	--	<0.10	<0.10
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HOUSATONIC RIVER BASIN.--Continued

01199350 MUDGE POND (SILVER LAKE) AT SHARON, CT. (LAT 41 53 40 LONG 073 28 47)

AUG 1983 24...	--	--	--	--	--	--	--	--	<0.10	<0.10
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01200800 SQUANTZ POND NEAR FAIRFIELD, CT. (LAT 41 30 53 LONG 073 28 49)

AUG 1983 22...	--	--	--	--	--	--	--	--	<0.10	<0.10
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01201511 STILL RIVER NR STILL RIVER, CT (LAT 41 32 18 LONG 073 24 52)

DEC 1982 03...	8.7	80	--	--	270	--	--	--	--	--
03...	7.9	20	--	--	150	--	--	--	--	--

01201513 STILL RIVER BELOW LANESVILLE RD AT STILL RIVER, CT (LAT 41 32 37 LONG 073 24 47)

DEC 1982 03...	1.5	20	--	--	81	--	--	--	--	--
03...	4.7	10	--	--	120	--	--	--	--	--
03...	0.46	20	--	--	79	--	--	--	--	--
03...	2.4	10	--	--	41	--	--	--	--	--

01205610 LK WINCHESTER AT WINCHESTER CT (LAT 41 54 27 LONG 073 09 08)

AUG 1983 23...	--	--	--	--	--	--	--	--	<0.10	<0.10
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CHEMICAL QUALITY OF PRECIPITATION

THAMES RIVER BASIN

414400071554601 ATMOSPHERIC DEPOSITION SITE NEAR WAUREGAN, CT

LOCATION.--Lat 41° 44' 00", long 71° 55' 46", Windham County, Hydrologic Unit 01100001. At wellhouse 6 at the State of Connecticut Quinebaug Valley Trout Hatchery, 1.3 mi (2.1 km) southwest of Wauregan and 1.5 mi (2.4 km) northwest of Central Village.

PERIOD OF RECORD.--Precipitation events November 1982 to current year.

EQUIPMENT.--Automatic wet and dry sensing atmospheric deposition collector, NADP type. Precipitation gage is a water stage recorder installed on a calibrated pipe. Ground level from topographic map is 130 ft (39.6m). Collector opening and precipitation gage are 14 ft (4.3 m) above ground level.

REMARKS.--Inches of precipitation is that for the reported periods of sampling. During period of snow, no records of precipitation quantity are available.

ANALYSES OF PHYSICAL AND CHEMICAL PROPERTIES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STORM EVENT WETFALL

PERIOD OF COLLECTION (DATES)	SPECIFIC CONDUCTANCE	pH	INCHES PRECIP
82/11/28--82/11/29	8	4.8	0.98
82/12/16	16	4.9	0.85
83/01/05--83/01/06	15	4.4	0.49
83/01/13	18	4.7	0.78
83/01/22--83/01/24	8	4.9	1.17
83/01/29--83/01/31	26	4.2	0.36
83/02/03	14	4.7	1.21
83/02/06--83/02/07	13	4.7	0.44
83/02/11--83/02/12	6	4.9	0.04
83/02/17	17	4.5	1.09
83/03/02	26	4.2	0.37
83/03/06--83/03/09	47	4.0	1.37
83/03/19--83/03/21	20	4.5	1.91
83/03/27--83/03/28	22	4.4	1.11
83/04/03	32	4.2	0.02
83/04/10	13	4.6	2.37
83/04/16--83/04/17	16	4.4	0.96
83/04/19--83/04/20	13	4.5	2.84
83/04/24	15	4.9	2.42
83/05/31	30	4.2	1.47
83/06/04	41	4.0	0.99
83/06/27--83/06/28	68	3.8	1.22
83/07/06	27	4.3	0.38
83/07/22	79	3.8	0.25
83/07/25	38	4.0	0.29
83/08/11--83/08/12	39	4.0	0.75
83/09/12	87	3.7	0.54
83/09/23	14	4.7	0.95

414400071554601 ATMOSPHERIC DEPOSITION SITE NEAR WAUREGAN, CT--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STORM EVENT WETFALL

DATE	INCHES OF PRECIPI- TATION	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (UG/L AS CA)	MAGNE- SIUM DIS- SOLVED (UG/L AS MG)	SODIUM DIS- SOLVED (UG/L AS NA)	POTAS- SIUM DIS- SOLVED (UG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
83/01/22 TO 83/01/24	1.17	8	4.9	0.21	20	40	420	20	<5.0
83/03/19 TO 83/03/21	1.91	20	4.5	1	190	130	1200	180	1.8
83/03/27 TO 83/03/28	1.11	22	4.4	0.80	140	110	1200	120	2.0
83/04/19 TO 83/04/20	2.84	13	4.5	0.37	100	30	240	50	1.5
83/06/27 TO 83/06/28	1.22	68	3.8	1	360	40	70	50	7.8
83/08/11 TO 83/08/12	0.75	39	4.0	0.32	80	30	170	60	9.5

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
83/01/22 TO 83/01/24	0.61	0.043	--	0.032	--	0.002	--	0.003	--
83/03/19 TO 83/03/21	2.0	0.127	--	0.210	--	0.001	--	<0.001	--
83/03/27 TO 83/03/28	1.7	0.178	--	0.140	--	0.008	--	--	--
83/04/19 TO 83/04/20	0.45	0.177	--	0.060	--	0.005	--	<0.001	--
83/06/27 TO 83/06/28	0.43	--	0.646	--	0.561	--	0.010	--	<0.001
83/08/11 TO 83/08/12	0.28	--	0.165	--	0.128	--	0.010	--	0.003

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
83/01/22 TO 83/01/24	--	--	--	--	--	--	--	--	--
83/03/19 TO 83/03/21	--	--	--	--	--	--	--	--	--
83/03/27 TO 83/03/28	--	--	--	--	--	--	--	--	--
83/04/19 TO 83/04/20	--	--	--	--	--	--	--	--	--
83/06/27 TO 83/06/28	10	1	<1	<1	<3.00	15	2	<1	6.00
83/08/11 TO 83/08/12	10	<1	<1	<1	8.00	9	1	<1	7.00

CHEMICAL QUALITY OF PRECIPITATION

CONNECTICUT RIVER BASIN

413538072253501 ATMOSPHERIC DEPOSITION SITE AT NORTH WESTCHESTER, CT

LOCATION.--Lat 41°35'38", long 72°25'35", Hartford County, Hydrologic Unit 01080205. In field at Greater Hartford County 4-H Outdoor Recreation Center, 1.5 mi (2.4 km) northwest of North Westchester and 2.9 mi (4.7 km) southeast of Marlborough.

PERIOD OF RECORD.--Precipitation events May 1983 to current year.

EQUIPMENT.--Automatic wet and dry sensing atmospheric deposition collector, NADP type. Precipitation gage is a water stage recorder installed on a calibrated pipe. Ground level from topographic map is 260 ft (79.2 m). Collector opening and precipitation gage are 10 ft (3.0 m) above ground level.

REMARKS.--Inches of precipitation is that for the reported period of sampling. During periods of snow, no records of precipitation quantity are available.

ANALYSES OF PHYSICAL AND CHEMICAL PROPERTIES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PERIOD OF COLLECTION (DATES)	SPECIFIC CONDUCTANCE	pH	INCHES PRECIP
83/05/29--83/05/31	36	4.1	1.39
83/06/04	42	4.1	0.99
83/06/27--83/06/28	75	3.8	2.63
83/07/05--83/07/06	89	3.7	0.27
83/07/21	46	4.0	0.39
83/07/24	40	4.0	0.91
83/08/11--83/08/12	27	4.2	1.75
83/09/23	11	4.7	1.18

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- ATION	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (UG/L AS CA)	MAGNE- SIUM DIS- SOLVED (UG/L AS MG)	SODIUM DIS- SOLVED (UG/L AS NA)	POTAS- SIUM DIS- SOLVED (UG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
83/06/27 TO 83/06/28	2.63	75	3.8	1	380	40	90	70	8.1	0.34	0.607	0.586
83/08/11 TO 83/08/12	1.75	27	4.2	0.30	70	30	130	30	9.4	0.24	0.163	0.135

PERIOD OF COLLECTION	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
83/06/27 TO 83/06/28	.014	<0.001	--	--	--	--	--	--	--	--	--
83/08/11 TO 83/08/12	.013	0.004	<10	<1	<1	<1	5.00	7	<1	<1	8.00

CHEMICAL QUALITY OF PRECIPITATION

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HOUSATONIC RIVER BASIN

414029073083501 ATMOSPHERIC DEPOSITION SITE NEAR THOMASTON, CT

LOCATION.--Lat 41 40'29", long 73°08'35", Litchfield County, Hydrologic Unit 01100005. On earthen dam of Morris Reservoir, 3 mi (4.8 km) northwest of Thomaston and 5 mi (8.0 km) southeast of Litchfield.

PERIOD OF RECORD.--Precipitation events December 1982 to current year.

EQUIPMENT.--Automatic wet and dry sensing atmospheric deposition collector, NADP type. Precipitation gage is a water stage recorder installed on a calibrated pipe. Ground level from topographic map is 650 ft (198 m). Collector opening and precipitation gage are 9 ft (2.7 m) above ground level.

REMARKS.--Inches of precipitation is that for the reported periods of sampling. During periods of snow, no records of precipitation quantity are available.

ANALYSES OF PHYSICAL AND CHEMICAL PROPERTIES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STORM EVENT WETFALL

PERIOD OF COLLECTION (DATES)	SPECIFIC CONDUCTANCE	pH	INCHES PRECIP
82/12/16	22	4.5	1.18
83/01/05--83/01/06	18	4.4	0.64
83/01/10--83/01/11	6	4.9	2.39
83/01/23	13	4.5	1.45
83/02/02--83/02/03	19	4.4	1.89
83/02/06--83/02/07	50	4.0	**
83/02/11--83/02/12	9	4.9	**
83/02/17	46	4.0	0.21
83/03/02	22	4.3	0.27
83/03/07--83/03/09	37	4.1	1.22
83/03/19--83/03/21	14	4.5	1.29
83/03/27--83/03/28	18	4.4	1.29
83/04/03	11	4.7	1.07
83/04/10	9	4.6	2.70
83/04/16--83/04/17	10	4.5	2.61
83/04/19--83/04/20	23	4.3	1.27
83/04/24	16	4.5	1.35
83/05/15--83/05/16	35	4.1	0.87
83/05/29--83/05/30	39	4.1	0.81
83/06/04	49	3.9	1.39
83/06/28	58	3.9	1.71
83/07/05	67	3.9	1.54
83/07/25	46	4.1	0.75
83/08/11--83/08/12	49	3.9	1.60
83/09/12	65	3.8	0.24
83/09/23	20	4.5	0.94

**SNOW -- NO INFORMATION ON QUANTITY

HOUSATONIC RIVER BASIN

414029073083501 ATMOSPHERIC DEPOSITION SITE NEAR THOMASTON, CT--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (UG/L AS CA)	MAGNESIUM DIS- SOLVED (UG/L AS MG)	SODIUM DIS- SOLVED (UG/L AS NA)	POTASSIUM DIS- SOLVED (UG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
83/01/23	1.45	13	4.5	0.30	70	30	260	50	<5.0
83/03/19 TO 83/03/21	1.29	14	4.5	0.35	90	30	340	100	1.3
83/03/27 TO 83/03/28	1.29	18	4.4	0.22	40	30	300	30	1.6
83/04/19 TO 83/04/20	1.27	23	4.3	0.32	80	30	240	50	1.4
83/06/28	1.71	58	3.9	1	370	50	60	70	7.0
83/08/11 TO 83/08/12	1.60	49	3.9	0.30	70	30	130	30	9.3
PERIOD OF COLLECTION	CHLORIDE, DIS- SOLVED (MG/L AS CL)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS- SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
83/01/23	0.41	0.126	--	0.026	--	0.002	--	0.003	--
83/03/19 TO 83/03/21	0.54	0.048	--	0.050	--	<0.001	--	<0.001	--
83/03/27 TO 83/03/28	0.51	0.121	--	0.140	--	0.009	--	0.001	--
83/04/19 TO 83/04/20	0.29	0.346	--	0.099	--	0.004	--	<0.001	--
83/06/28	0.65	--	0.543	--	0.497	--	0.016	--	<0.001
83/08/11 TO 83/08/12	0.22	--	0.129	--	0.185	--	0.006	--	0.011
PERIOD OF COLLECTION	ALUMINUM, DIS- SOLVED (UG/L AS AL)	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)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
83/01/23	--	--	--	--	--	--	--	--	--
83/03/19 TO 83/03/21	--	--	--	--	--	--	--	--	--
83/03/27 TO 83/03/28	--	--	--	--	--	--	--	--	--
83/04/19 TO 83/04/20	--	--	--	--	--	--	--	--	--
83/06/28	10	<1	<1	2	<3.00	16	2	1	8.00
83/08/11 TO 83/08/12	<10	<1	<1	<1	6.00	8	1	1	7.00

Fairfield County

Site Number 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 1.25 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, 26.33 ft (8.03 m) below land-surface datum, April 26, 1983; lowest, 33.41 ft (10.18 m) below land-surface datum, January 26, 1981.

Water year highest water level 26.33 feet below land surface datum Apr 26, 1983.

Water year lowest water level 32.43 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	32.23	Jan 25, 1983	31.64	Apr 26, 1983	26.33	Jul 26, 1983	30.28
Nov 23	32.33	Feb 24	30.67	May 26	27.66	Aug 26	31.35
Dec 28	32.43	Mar 28	28.30	Jun 27	29.21	Sep 27	32.18

Site Number 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 1.25 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, 3.64 ft (1.11 m) below land-surface datum, April 10, 1980; lowest, 8.79 ft (2.68 m) below land-surface datum, Sept. 25, 1967.

Water year highest water level 5.32 feet below land surface datum Apr 26, 1983.

Water year lowest water level 8.34 feet below land surface datum Aug 26, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	8.01	Jan 25, 1983	7.27	Apr 26, 1983	5.32	Jul 26, 1983	7.36
Nov 23	8.14	Feb 24	7.50	May 26	7.55	Aug 26	8.34
Dec 28	8.09	Mar 28	6.22	Jun 27	8.12	Sep 27	8.12

Site Number 412429073165101 Local Number NT 15

LOCATION.--Lat 41 24 29 , long 73°16 51 , Hydrologic Unit 01100005, 0.65 mi (1.05km) southwest of State Route 34 on Mile Hill Road and 0.25 mi (0.40 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 1.25 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 (.19 m) below land-surface datum, June 26, 1972; lowest, 10.95 ft (3.34 m) below land-surface datum, November 24, 1980.

Water year highest water level 0.70 feet below land surface datum Apr 26, 1983.

Water year lowest water level 9.75 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	9.53	Jan 25, 1983	6.10	Apr 26, 1983	0.70	Jul 26, 1983	6.78
Nov 23	9.65	Feb 24	2.88	May 26	2.89	Aug 26	8.58
Dec 28	9.23	Mar 28	0.75	Jun 27	5.00	Sep 27	9.75

Fairfield County -- continued

Site Number 412424073154701 Local Number NT 54

LOCATION.--Lat 41°24'24", long 73°15'47", Hydrologic Unit 01100005, south of route 34, east of Toddy Hill Road, near sand pit, Newtown; Newtown quadrangle.

OWNER: S. Curtis, Inc.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 62 ft (18.9 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 (.91 m) above land-surface datum.

PERIOD OF RECORD.--August 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.71 ft (6.92 m) below land-surface datum, May 26, 1983; lowest, 33.28 ft (10.14 m) below land-surface datum, January 26, 1981.

Water year highest water level 22.71 feet below land surface datum May 26, 1983.

Water year lowest water level 32.51 feet below land surface datum Jan 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	28.19	Jan 25, 1983	32.51	Apr 26, 1983	24.38	Jul 26, 1983	25.03
Nov 23	29.07	Feb 24	29.51	May 26	22.71	Aug 26	26.38
Dec 28	30.05	Mar 28	27.98	Jun 27	24.82	Sep 27	27.47

Hartford County

Site Number 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.--Stratified drift (sand and gravel) 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 (3.86 m) below land-surface datum, August 19, 1955; lowest, 37.41 ft (11.40 m) below land-surface datum, December 22, 1948.

Water year highest water level 13.73 feet below land surface datum Apr 26, 1983.

Water year lowest water level 32.49 feet below land surface datum Nov 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	28.59	Jan 25, 1983	27.31	Apr 26, 1983	13.73	Jul 26, 1983	19.11
Nov 22	32.49	Feb 24	22.06	May 26	16.53	Aug 26	22.55
Dec 29	31.81	Mar 28	15.27	Jun 27	17.01	Sep 27	27.34

Site Number 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, 0.95 ft (0.29 m) below land-surface datum, April 26, 1983; lowest, 5.94 ft (1.81 m) below land surface datum, January 26, 1981.

Water year highest water level 0.95 feet below land surface datum Apr 26, 1983.

Water year lowest water level 5.72 feet below land surface datum Aug 26, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	5.21	Jan 25, 1983	3.95	Apr 26, 1983	0.95	Jul 26, 1983	5.54
Nov 22	4.50	Feb 23	5.27	May 26	3.87	Aug 26	5.72
Dec 29	4.80	Mar 28	1.81	Jun 27	5.16	Sep 27	5.35

GROUND-WATER LEVELS

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Hartford County -- continued

Site Number 414517072503301 Local Number F 294

LOCATION.--Lat 41°45 17 , long 72°50 33 , Hydrologic Unit 01080207, 0.5 mile (.80 km) west of Tilliston Road, along aquaduct and power lines, 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 (.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 (.31 m) above land-surface datum.

PERIOD OF RECORD.--September 1976 to November 1977. November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.96 ft (3.34 m) below land-surface datum, April 26, 1983; lowest, 23.60 ft (7.19 m) below land-surface datum, January 26, 1981.

Water year highest water level 10.96 feet below land surface datum Apr 26, 1983.

Water year lowest water level 21.71 feet below land surface datum Jan 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	18.83	Jan 25, 1983	21.71	Apr 26, 1983	10.96	Jul 26, 1983	14.85
Nov 23	19.95	Feb 23	19.04	May 26	11.94	Aug 26	16.62
Dec 29	21.22	Mar 28	14.63	Jun 27	13.16	Sep 27	18.34

Site Number 415649072494801 Local Number GR 328

LOCATION.--Lat 41°56 49, long 72°49 48, Hydrologic Unit 01080207; 1150 ft (350 m) east of junction of Day St and Simsbury Rd on field lane to field, well is 320 ft (98 m) east of fence line and 60 ft (18 m) north of wood line and 10 ft (3 m) from east fence line, Granby; Tariffville quadrangle.

OWNER: University of Connecticut.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22 ft (6.7 m), PVC plastic casing to 20 ft (6 m), slotted 20 to 22 ft (6 to 6.7 m).

DATUM.--Altitude of land-surface datum is 440 ft (134 m) (from topographic map). Measuring point: top of PVC casing, 0.69 ft (0.21 m) above land surface datum.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center.

PERIOD OF RECORD.--June 1981 to current.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.81 ft (1.47 m) below land-surface datum, Apr. 22, 1983; lowest, 16.41 ft (5.00 m) below land-surface datum, Sept. 29, 1983.

Water year highest water level 4.81 feet below land surface datum Apr. 22, 1983.

Water year lowest water level 16.41 feet below land surface datum Sept. 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 07, 1982	15.24	Feb 03, 1983	11.03	Jun 01, 1983	8.85	Aug 29, 1983	14.59
21	15.56	Mar 15	6.53	17	8.90	Sep 08	15.26
Nov 23	15.81	Apr 06	6.93	24	11.58	14	15.61
Dec 22	15.53	11	5.49	Jul 11	12.80	22	16.20
30	15.28	22	4.81	25	13.45	29	16.41
Jan 13, 1983	12.96	27	5.09	Aug 08	13.96		
20	12.71	May 10	8.51	18	14.35		

GROUND-WATER LEVELS

Hartford County -- continued

Site Number 415647072495901 Local Number GR 329

LOCATION.--Lat 41°56 47, long 72°49 59, Hydrologic Unit 01080207; 1150 ft (350 m) east of junction of Day St and Simsbury Rd on field lane to field, well is 10 ft (3.05 m) east of stone wall, 150 ft (45 m) south of field lane along stone wall which runs north and south, Granby; Tariffville quadrangle.

OWNER: University of Connecticut.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 22 ft (6.7 m), PVC plastic casing to 20 ft (6 m), slotted 20 to 22 ft (6 to 6.7 m).

DATUM.--Altitude of land-surface datum is 400 ft (121.9 m) (from topographic map). Measuring point: top of PVC casing, 1.20 ft (0.36 m) above land-surface datum.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center.

PERIOD OF RECORD.--May 1982 to current.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.19 ft (0.36 m) below land-surface datum, Feb. 3, 1983; lowest, 12.03 ft (3.67 m) below land-surface datum, Sept. 29, 1983.

Water year highest water level 1.19 feet below land surface datum Feb. 3, 1983.

Water year lowest water level 12.03 feet below land surface datum Sept. 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 07, 1982	11.05	Feb 03, 1983	1.19	Jun 17, 1983	4.95	Sep 08, 1983	11.15
21	10.57	Mar 15	2.43	24	5.53	14	11.35
Nov 23	9.82	Apr 06	3.17	Jul 11	7.43	22	11.76
Dec 22	8.81	22	1.53	25	8.85	29	12.03
30	7.86	27	1.48	Aug 08	9.68		
Jan 13, 1983	3.85	May 10	4.14	18	10.12		
20	5.33	Jun 01	3.67	29	10.77		

Site Number 415643072502201 Local Number GR 330

LOCATION.--Lat 41°56 43, long 72°50 22, Hydrologic Unit 01080207; 1,000 ft (304.8 m) west of junction of Day St and Simsbury Rd on west side of alfalfa field, 50 ft from bank of west branch of Salmon River, 250 ft (76 m) south along field, 10 ft west of edge of field, Granby; Tariffville quadrangle.

OWNER: University 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 ft (6.7 m) PVC plastic casing to 20 ft (6 m), slotted 20 to 22 ft (6 to 6.7 m).

DATUM.--Altitude of land-surface datum is 309 ft (94.2 m) (from topographic map).

Measuring point: top of PVC casing, 2 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--May 1982 to current year.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.50 ft (0.46 m) below land-surface datum, Mar. 15, 1983; lowest, 4.46 ft (1.36 m) below land-surface datum, Sept. 14, 1983.

Water year highest water level 1.50 feet below land surface datum March 15, 1983.

Water year lowest water level 4.46 feet below land surface datum Sept. 14, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 07, 1982	4.34	Feb 03, 1983	1.69	Jun 01, 1983	3.13	Aug 18, 1983	4.16
21	4.12	Mar 15	1.50	17	3.57	29	4.31
Nov 23	3.87	Apr 06	3.06	24	3.76	Sep 08	4.40
Dec 22	3.74	22	1.60	Jul 11	3.93	14	4.46
30	3.70	27	2.20	25	4.19	22	4.08
Jan 20, 1983	3.50	May 10	3.24	Aug 08	4.08	29	4.45

Hartford County -- continued

Site Number 415653072501701 Local Number GR 331

LOCATION.--Lat 41°56'43", long 72°50'17", Hydrologic Unit 01080207; along north side of field road 30 ft (9.14 m) west of Simsbury Road, and 900 ft (274 m) north from junction with Day Street South Granby; Tariffville quadrangle.

OWNER: University 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, 31.5 ft (9.60 m), PVC plastic casing to 29.5 ft (8.99 m), slotted casing 29.5 to 31.5 ft (8.99 to 9.60 m).

DATUM.--Altitude of land-surface datum is 327 ft (100 m) (from topographic map). Measuring point: top of PVC casing, 2.90 ft (0.64 m) above land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 4.41 ft (1.34 m) below land-surface datum, Apr. 22, 1983; lowest, 13.30 ft (4.05 m) below land-surface datum, Sept. 29, 1983.

Water year highest water level 4.41 feet below land surface datum Apr. 22, 1983.

Water year lowest water level 13.30 feet below land-surface datum Sept. 29, 1983.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Mar 15, 1983	6.41	May 10, 1983	8.55	Jul 11, 1983	10.39	Aug 29, 1983	12.24
Apr 6	7.76	Jun 1	8.53	29	11.13	Sep 8	12.68
22	4.41	17	6.59	Aug 8	11.20	22	13.20
27	5.52	24	9.91	18	11.54	29	13.30

Site Number 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 (8.5 m), steel casing to 23 ft (7 m), screened 23 to 28 ft (7 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 current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.00 ft (1.52 m) below land-surface datum, April 26, 1983; lowest, 13.06 ft (3.98 m) below land-surface datum, September 27, 1976.

Water year highest water level 5.00 feet below land surface datum Apr 26, 1983.

Water year lowest water level 11.28 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	10.87	Jan 25, 1983	10.16	Apr 26, 1983	5.00	Jul 26, 1983	9.15
Nov 23	11.12	Feb 24	9.37	May 26	6.66	Aug 26	10.13
Dec 28	11.28	Mar 28	6.69	Jun 27	7.93	Sep 27	10.78

Site Number 413608072523801 Local Number S 377

LOCATION.--Lat 41°36'08", long 72°52'38", Hydrologic Unit 01100004, 3 ft (.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 (9.8 m), steel casing to 27 ft (8.2 m), screened 27 ft to 32 ft (8.2 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 (.24 m) above land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.02 ft (5.19 m) above land-surface datum, April 26, 1983, lowest, 23.90 ft (7.28 m) above land-surface datum, November 24, 1982.

Water year highest water level 17.02 feet below land surface datum Apr 26, 1983.

Water year lowest water level 22.53 feet below land surface datum Jan 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	21.60	Jan 25, 1983	22.53	Apr 26, 1983	17.02	Jul 26, 1983	19.38
Nov 23	21.93	Feb 24	21.72	May 26	17.78	Aug 26	20.26
Dec 28	22.39	Mar 28	19.65	Jun 27	18.50	Sep 27	21.11

Hartford County--Continued

Site Number 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, 7.12 ft (2.17 m) below land-surface datum, April 26, 1983; lowest, 15.22 ft (4.64 m) below land-surface datum, Jan. 26, 1966.

Water year highest water level 7.12 feet below land surface datum Apr 26, 1983.

Water year lowest water level 12.83 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov 22, 1982	12.59	Feb 23, 1983	11.91	May 26, 1983	8.90	Aug 26, 1983	11.77
Dec 28	12.83	Mar 28	9.95	Jun 27	9.74	Sep 27	obstruction
Jan 25, 1983	12.56	Apr 26	7.12	Jul 26	11.07		

Litchfield County

Site Number 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, March 26, 1963; lowest, 11.12 ft (3.39 m) below land-surface datum, Sept. 5, 1961.

Water year highest water level 8.15 feet below land surface datum Apr 22, 1983.

Water year lowest water level 10.24 feet below land surface datum Oct 06, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 06, 1982	10.24	Jan 14, 1983	9.14	Apr 22, 1983	8.15	Jul 21, 1983	9.72
13	10.12	26	9.10	26	8.37	28	9.82
20	9.90	Feb 02	9.15	May 04	8.90	Aug 04	9.50
Nov 03	9.77	10	9.18	11	9.13	10	9.65
10	9.73	16	9.15	19	9.20	20	9.70
17	9.52	24	9.22	25	9.14	Sep 02	9.70
24	9.44	Mar 04	8.99	Jun 01	9.10	08	9.90
Dec 01	9.55	10	8.99	07	9.07	17	9.90
08	9.42	16	8.95	15	9.28	23	9.90
18	9.46	24	8.77	22	9.42	30	9.90
22	9.32	31	9.85	29	9.45		
Jan 05, 1983	9.26	Apr 07	8.90	Jul 07	9.48		
12	9.22	13	8.82	14	9.60		

Litchfield County -- continued

Site Number 414910073072301 Local Number T 2

LOCATION.--Lat 41° 49 10 , long 73° 07 23 , Hydrologic Unit 01100005, in storeroom of machine shop, Warrenton Woolen Co., Torrington; Torrington quadrangle.

OWNER: Warrenton Woolen Co.

AQUIFER.--Crystalline bedrock.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (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, 4.76 ft (1.45 m) below land-surface datum, June 7, 1982; lowest, 8.60 ft (2.62 m) below land-surface datum, Sept. 28, 1964.

Water year highest water level 5.10 feet below land surface datum Apr 25, 1983.

Water year lowest water level 8.50 feet below land surface datum Sept 19, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 04, 1982	7.32	Jan 03, 1983	6.54	Apr 11, 1983	5.15	Jul 11, 1983	6.98
11	6.90	10	6.50	18	5.25	18	7.15
18	7.03	17	6.22	25	5.10	25	7.20
25	7.14	24	5.82	May 02	6.12	Aug 01	7.50
Nov 01	7.10	30	6.22	16	6.34	08	7.52
08	6.94	Feb 21	6.27	23	5.96	17	7.67
15	6.34	28	6.24	31	5.80	21	7.77
22	6.62	Mar 07	5.62	Jun 06	6.05	Sep 05	8.15
29	6.66	14	5.60	13	6.47	12	8.40
Dec 06	6.64	21	5.32	20	6.70	19	8.50
20	6.32	28	5.31	27	6.90	26	8.35
27	6.34	Apr 04	5.70	Jul 04	6.79		

Site Number 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 Boulton.

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.--Float recorder 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, 18.70 ft (5.70 m) below land-surface datum, April 26, 1983; lowest, 33.5 ft (10.2 m) below land-surface datum, Oct. 10, 1914.

Water year highest water level 18.70 feet below land surface datum Apr 26, 1983.

Water year lowest water level 29.31 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	28.15	Jan 25, 1983	26.27	Apr 26, 1983	18.70	Jul 26, 1983	22.49
Nov 23	29.17	Feb 24	21.48	May 26	20.85	Aug 26	24.83
Dec 28	29.31	Mar 28	19.37	Jun 27	21.43	Sep 27	28.44

Middlesex County

Site Number 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 St. 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, 2.59 ft (0.79 m) below land-surface datum, Apr 26, 1983; lowest, 16.92 ft (5.16 m) below land-surface datum, Nov. 24, 1964.

Water year highest water level 2.59 feet below land surface datum Apr 26, 1983.

Water year lowest water level 13.66 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	13.42	Jan 25, 1983	5.46	Apr 26, 1983	2.59	Jul 26, 1983	10.60
Nov 23	12.91	Feb 23	5.24	May 26	6.98	Aug 26	12.25
Dec 29	11.70	Mar 28	3.74	Jun 27	8.35	Sep 27	13.66

Site Number 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, 17.16 ft (5.23 m) below land-surface datum, Apr 26, 1983; lowest, dry, Nov. 1, 1957, Dec. 2, 1957, Nov. 25, 1964.

Water year highest water level 17.16 feet below land surface datum Apr 26, 1983.

Water year lowest water level 25.24 feet below land surface datum Oct 26, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	25.24	Jan 25, 1983	19.16	Apr 26, 1983	17.16	Jul 26, 1983	21.11
Nov 23	25.15	Feb 23	18.82	May 26	19.95	Aug 26	22.50
Dec 28	24.43	Mar 28	17.51	Jun 27	20.35	Sep 27	24.54

New Haven County

Site Number 411723072344701 Local Number MA 314

LOCATION.--Lat 41°17'23", long 72°34'47", Hydrologic Unit 01100004, 10 ft (3.5 m) north of fence and 20 ft (7.0 m) west of willows in long grass between service area parking and fence line on south side of east bound service area, Madison; Clinton quadrangle.

OWNER: Connecticut Department of Transportation.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (0.05 m), depth 26.7 ft (8.14 m), PVC casing to 24.7 ft (7.53 m), screened 24.7 to 26.7 ft (7.53 to 8.14 m).

DATUM.--Altitude of land-surface datum is 45 ft (13.7 m). Measuring point: top of PVC casing, 0.55 ft (0.17 m) above land-surface datum.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.65 ft (3.85 m) below land-surface datum, June 28, 1982; lowest, 18.59 ft (5.67 m) below land-surface datum, Nov 23, 1982.

Water year highest water level 12.99 feet below land surface datum Apr 26, 1983.

Water year lowest water level 18.59 feet below land surface datum Nov 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 28, 1982	18.39	Jan 25, 1983	17.95	Apr 26, 1983	12.99	Jul 27, 1983	16.76
Nov 23	18.59	Feb 23	16.64	May 25	14.66	Aug 29	17.73
Dec 28	18.42	Mar 31	15.05	Jun 28	15.53	Sep 27	18.33

New Haven County -- continued

Site Number 411829072542001 Local Number NHN 179

LOCATION.--Lat 41°18 29 , Long 72°54 20 , Hydrologic Unit 01100004, 1 ft (0.3m) north of parking lot curb, 40 ft (12m) south of Grand Avenue centerline, and 220 ft (67m) west of Haven Street, New Haven; New Haven quadrangle.

OWNER.--New Haven Heat Treating Co. Inc.

AQUIFER.--Stratified drift of Pleistocene age (Sand).

WELL CHARACTERISTICS.--Driven, unused, water-table well, diameter 3 in (.08m), depth 64 ft (19.5m), (formerly reported as 65 ft).

DATUM.--Altitude of land-surface datum is 13.95 ft (4.25m), (from level traverse).

MEASURING POINT: Top of casing, 0.4 ft (0.12m) above land-surface datum.

REMARKS.--Unpublished records for January 1957 to December 1959 available in U.S.G.S. Hartford Office. Water levels affected by pumping at least through 1974, based on long-term hydrograph. Water levels reported as feet below mean sea level before water year 1975.

PERIOD OF RECORD.--July 1939 to November 1947 and January 1957 to current year. Discontinued Sept. 1983.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.75 ft (2.36m) below land-surface datum, Jan. 25, 1983; lowest, 21.53 ft (6.56m) below land-surface datum, July 30, 1957, date formerly reported as July 26, 1971.

Water year highest water level 7.75 feet below land surface datum Jan 25, 1983.

Water year lowest water level 8.71 feet below land surface datum Dec. 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 28, 1982	7.96	Jan 25, 1983	7.75	Apr 26, 1983	7.82	Jul 27, 1983	8.01
Nov 23	8.33	Feb 23	obstruction	May 26	7.81	Aug 29	7.88
Dec 28	8.71	Mar 31	8.50	Jun 28	7.81	Sep 27	7.97

Site Number 412307072515201 Local Number NHV 201

LOCATION.--Lat 41°23 07 , long 72°51 52 , Hydrologic Unit 01100004, in southwest corner 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 (0.05 m), depth 32 ft (9.75 m), plastic casing to 27 ft (8.23 m), screened 27 ft to 32 ft (8.23 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 current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.69 ft (3.56 m) below land-surface datum, Apr. 26, 1983, lowest 17.85 ft (5.44 m) below land-surface datum, September 29, 1981.

Water year highest water level 11.69 feet below land surface datum Apr 26, 1983.

Water year lowest water level 17.10 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 28, 1982	16.66	Jan 25, 1983	16.68	Apr 26, 1983	11.69	Jul 27, 1983	15.20
Nov 23	16.90	Feb 24	15.83	May 25	13.07	Aug 29	15.99
Dec 28	17.10	Mar 31	14.13	Jun 28	14.00	Sep 27	16.63

Site Number 412550072510701 Local Number NHV 202

LOCATION.--Lat 41°25 50 , long 72°51 07 , Hydrologic Unit 01100004, about 50 ft (15.2 m) east of east-bound land of Merritt Parkway, 2.5 mi north of North Haven service area at 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 (.051 m), depth, 65 ft (19.8 m), plastic casing to 60 ft (18.3 m), screened 60 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 (.82 m) above land-surface datum.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 33.07 ft (10.08 m) below land-surface datum, Apr 25, 1983; lowest, dry on September 28, 1981, Oct 29, 1981, Nov 25, 1981, Dec 29, 1981, Jan 27, 1982.

Water year highest water level 33.07 feet below land surface datum Apr 25, 1983.

Water year lowest water level 54.06 feet below land surface datum Jan 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 28, 1982	49.27	Jan 25, 1983	54.06	Apr 25, 1983	33.07	Jul 27, 1983	41.92
Nov 23	51.92	Feb 24	52.99	May 25	36.35	Aug 29	obstruction
Dec 28	53.65	Mar 31	44.27	Jun 28	38.78	Sep 27	47.98

New Haven County -- continued

Site Number 413134073021701 Local Number WB 93

LOCATION.--Lat 41°31 34 , long 73°02 17 , Hydrologic Unit 01100005, 10 ft (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, 23.09 ft (7.04 m) below land-surface datum, March 26, 1980; lowest, 29.68 ft (9.05 m) below land-surface datum, Sept. 27, 1962.

Water year highest water level 23.61 feet below land surface datum Apr 26, 1983.

Water year lowest water level 28.27 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	28.13	Jan 25, 1983	27.00	Apr 26, 1983	23.61	Jul 26, 1983	27.87
Nov 23	27.87	Feb 24	26.62	May 26	28.13	Aug 26	28.07
Dec 28	27.95	Mar 28	23.76	Jun 27	27.41	Sep 27	28.27

Site Number 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 (9.45 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, January 10, 1946; lowest, 21.35 ft (6.51 m) below land-surface datum, November 24, 1980.

Water year highest water level 5.79 feet below land surface datum Apr 26, 1983.

Water year lowest water level 19.48 feet below land surface datum Dec 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	18.31	Jan 25, 1983	17.73	Apr 26, 1983	5.79	Jul 26, 1983	14.81
Nov 23	19.11	Feb 24	12.75	May 26	12.31	Aug 26	16.74
Dec 28	19.48	Mar 28	7.79	Jun 27	13.14	Sep 27	19.07

GROUND-WATER LEVELS

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New London County

Site Number 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 (6.7 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, 7.35 ft (2.41 m) below land-surface datum, June 7, 1982; lowest, 17.97 ft (5.48 m) below land-surface datum, Oct. 6, 1963.

Water year highest water level 9.47 feet below land surface datum Apr 26, 1983.

Water year lowest water level 16.69 feet below land surface datum Sep 20, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 09, 1982	16.28	Jan 27, 1983	14.32	Apr 26, 1983	9.47	Jul 29, 1983	15.95
20	16.28	Feb 01	14.12	May 09	12.43	Aug 07	16.25
Nov 01	16.32	06	13.83	15	13.26	14	16.08
08	16.25	20	13.21	30	13.60	20	16.16
22	15.57	28	13.09	Jun 07	13.52	31	16.40
28	15.75	Mar 06	13.33	15	13.98	Sep 08	16.47
Dec 05	15.36	15	11.84	20	14.32	14	16.60
14	15.36	20	12.07	28	14.87	20	16.69
20	15.30	Apr 01	12.42	Jul 07	15.18	30	16.40
Jan 13, 1983	15.49	10	11.60	14	15.40		
21	14.94	20	10.30	20	15.73		

Site Number 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 junction with Route 82, 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 (5.2 m), plastic casing to 12 ft (3.7 m), screened 12 to 17 ft (3.7 to 5.2 m).

DATUM.--Altitude of 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.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.88 ft (1.49 m) below land-surface datum, Apr 26, 1983; lowest, 13.56 ft (4.13 m) below land-surface datum, October 28, 1980.

Water year highest water level 4.88 feet below land surface datum Apr 26, 1983.

Water year lowest water level 13.34 feet below land surface datum Oct 26, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 26, 1982	13.34	Jan 25, 1983	10.17	Apr 26, 1983	4.88	Jul 26, 1983	11.36
Nov 23	13.17	Feb 23	8.00	May 26	8.45	Aug 26	12.57
Dec 29	12.31	Mar 28	6.67	Jun 27	9.62	Sep 27	13.24

New London County -- continued

Site Number 412311071522301 Local Number SN 164

LOCATION.--Lat 41°23 11 , long 71°52 23 , Hydrologic Unit 01100003, 25 FT (7.6M) south and 20 ft (6.1m) west of CL&P pole no. 6603, southwest corner of Pawcatuck Little League field parking lot, Stonington; Ashaway quadrangle.

OWNER: Pawcatuck Little League.

AQUIFER.--Stratified drift of Pleistocene age (sand).

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in (.051m), depth 19.6 ft (5.97m), steel casing to 14.6 ft (4.5m) screened 14.6 to 19.6 ft (4.5 to 6.0m).

DATUM.--Altitude of land-surface datum is 48 ft (14.6m) (from topographic map). Measuring point: top of steel casing, 0.3 ft (.09m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.70 ft (0.52m) below land-surface datum, June 6, 1982; lowest, 9.00 ft (2.74m) below land-surface datum, September 27, 1980.

Water year highest water level 5.10 feet below land surface datum Mar. 11, Mar. 28, and May 2, 1983.

Water year lowest water level 8.30 feet below land surface datum Sept. 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 02, 1982	7.40	Feb 05, 1983	5.70	May 26, 1983	5.70	Jul 30, 1983	7.70
10	7.30	11	5.90	Jun 05	6.10	Aug 06	7.70
16	7.40	27	5.30	12	6.50	13	7.40
Nov 19	6.90	Mar 04	5.70	18	6.70	27	7.70
Dec 03	6.50	11	5.10	26	7.10	Sep 05	7.90
07	6.50	18	5.50	Jul 02	7.10	11	8.00
20	6.50	28	5.10	10	7.30	18	8.20
Jan 21, 1983	6.70	May 02	5.10	28	7.70	24	8.30

Tolland County

Site Number 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, 7.85 ft (2.39 m) below land-surface datum, Apr 26, 1983; lowest, 15.72 ft (4.79 m) below land-surface datum, January 26, 1966.

Water year highest water level 7.85 feet below land surface datum Apr 26, 1983.

Water year lowest water level 13.37 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 27, 1982	12.90	Jan 25, 1983	11.47	Apr 26, 1983	7.85	Jul 26, 1983	11.50
Nov 22	12.57	Feb 23	10.28	May 26	9.73	Aug 26	12.46
Dec 28	12.52	Mar 28	9.07	Jun 27	10.37	Sep 27	13.37

Tolland County -- continued

Site Number 414741072134501 Local Number MS 44

LOCATION.--Lat 41°47'41", long 72°13'45", Hydrologic Unit 01100002, at School of Agronomy University of Connecticut, Rt 195 Mansfield, down access road to farm house, 150 ft (45.7m) from end of road, 40 ft (12.2m) south side of road.

OWNER: University of Connecticut.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table, diameter 2 in (.05m), depth 22 ft 96.7m), PVC casing to 20 ft (6.3m), slotted 20 to 22 ft (6 to 6.7m).

DATUM.--Altitude of land-surface datum is 654 ft (199.0m) (from topographic map). Measuring point: top of PVC casing, 1.20 ft (0.37m) above land-surface datum.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center.

PERIOD OF RECORD.--June 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.15 ft (0.05m) below land-surface datum, June 7, 1982; lowest, 9.78 ft (2.96m) below land-surface datum, Sept. 29, 1983.

Water year highest water level 0.44 feet below land surface datum Jan. 11, 1983.

Water year lowest water level 9.78 feet below land surface datum Sept. 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov 19, 1982	3.29	Apr 13, 1983	0.73	Aug 15, 1983	8.80	Sep 22, 1983	9.67
Jan 11	0.44	Jul 27	7.25	Sep 7	9.19	29	9.78

Windham County

Site Number 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 (2.74 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, 3.81 ft (1.16 m) below land-surface datum, Apr 26, 1983 lowest, 17.60 ft (5.36 m) below land-surface datum, Sept. 27, 1957.

Water year highest water level 3.81 feet below land surface datum Apr 26, 1983.

Water year lowest water level 15.64 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 27, 1982	12.34	Jan 25, 1983	9.68	Apr 26, 1983	3.81	Jul 26, 1983	13.26
Nov 22	9.92	Feb 23	7.61	May 26	9.95	Aug 26	14.30
Dec 28	10.22	Mar 28	5.99	Jun 27	11.11	Sep 27	15.64

Site Number 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, 26.19 ft (7.98 m) below land-surface datum, April 26, 1983; lowest, 33.22 ft (10.13 m) below land-surface datum, Feb. 11, 1966.

Water year highest water level 26.19 feet below land surface datum Apr 26, 1983.

Water year lowest water level 30.90 feet below land surface datum Sep 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 27, 1982	30.41	Jan 25, 1983	30.06	Apr 26, 1983	26.19	Jul 26, 1983	29.43
Nov 22	30.33	Feb 23	29.12	May 26	27.38	Aug 26	30.39
Dec 28	30.34	Mar 28	27.83	Jun 27	28.61	Sep 27	30.90

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	GEO- LOGIC UNIT	COUNTY	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)
HARTFORD COUNTY								
TOWN OF FARMINGTON								
F 296	41 44 02 N	072 51 18 W	112DFSF	003	29	83-05-04	1290	6.4
F 297	41 43 48 N	072 51 18 W	112DFSF	003	19	83-05-02	115	5.9
F 301	41 44 03 N	072 51 17 W	112DFSF	003	96	83-05-03	1110	6.6
F 302	41 44 03 N	072 51 17 W	112DFSF	003	65	83-05-03	1740	6.5
F 303	41 44 03 N	072 51 17 W	112DFSF	003	36	83-05-03	1610	6.4
F 304	41 44 03 N	072 51 17 W	112DFSF	003	21	83-05-04	1160	6.4
F 305	41 44 03 N	072 51 20 W	112DFSF	003	76	83-05-02	1440	6.5
F 306	41 44 03 N	072 51 20 W	112DFSF	003	45	83-05-02	1650	6.4
F 307	41 44 05 N	072 51 23 W	112DFSF	003	46	83-05-05	821	6.3
F 308	41 44 05 N	072 51 20 W	112DFSF	003	87	83-05-05	1130	6.8
F 309	41 44 05 N	072 51 20 W	112DFSF	003	35	83-05-05	1010	6.4
F 310	41 44 05 N	072 51 17 W	112DFSF	003	90	83-05-03	1740	6.6
F 311	41 44 05 N	072 51 17 W	112DFSF	003	41	83-05-03	780	6.4
F 312	41 44 01 N	072 51 21 W	112DFSF	003	61	83-05-04	1150	6.2
F 313	41 44 01 N	072 51 21 W	112DFSF	003	22	83-05-04	925	6.3
F 314	41 43 59 N	072 51 21 W	112DFSF	003	47	83-05-04	735	6.6
F 315	41 44 01 N	072 51 24 W	112DFSF	003	43	83-05-04	1010	6.3
F 316	41 44 06 N	072 51 20 W	112DFSF	003	54	83-05-05	620	6.4
F 317	41 44 00 N	072 51 17 W	112DFSF	003	51	83-05-04	890	6.4
F 318	41 44 01 N	072 51 27 W	112DFSF	003	36	83-05-05	1450	6.3
F 319	41 43 50 N	072 51 23 W	231SDMN	003	205	83-05-04	161	6.6
F 320	41 43 52 N	072 51 29 W	112DFSF	003	25	83-05-05	146	6.2
F 321	41 43 55 N	072 51 19 W	112DFSF	003	34	83-05-02	209	6.2

Geologic unit (aquifer)
112DFSF - Stratified drift
231SDMD - Sedimentary bedrock

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

LOCAL IDENT- I- FIER	TEMPER- ATURE (DEG C)	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
HARTFORD COUNTY--Continued									
TOWN OF FARMINGTON--Continued									
F 296	11.5	--	--	--	--	--	--	--	--
F 297	8.0	36	14	12	1.5	5.8	0.9	22	14
F 301	13.5	--	--	--	--	--	--	--	--
F 302	15.5	500	0	160	23	62	42	683	21
F 303	14.5	--	--	--	--	--	--	--	--
F 304	13.0	--	--	--	--	--	--	--	--
F 305	14.0	--	--	--	--	--	--	--	--
F 306	--	--	--	--	--	--	--	--	--
F 307	15.5	--	--	--	--	--	--	--	--
F 308	13.5	--	--	--	--	--	--	--	--
F 309	12.0	--	--	--	--	--	--	--	--
F 310	12.0	780	0	250	37	30	8.6	785	7.6
F 311	13.0	--	--	--	--	--	--	--	--
F 312	12.0	--	--	--	--	--	--	--	--
F 313	11.0	--	--	--	--	--	--	--	--
F 314	11.0	--	--	--	--	--	--	--	--
F 315	14.5	--	--	--	--	--	--	--	--
F 316	10.0	--	--	--	--	--	--	--	--
F 317	11.0	--	--	--	--	--	--	--	--
F 318	12.0	--	--	--	--	--	--	--	--
F 319	11.0	50	7	18	1.2	8.7	0.8	43	14
F 320	6.5	--	--	--	--	--	--	--	--
F 321	9.0	--	--	--	--	--	--	--	--

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983--Continued

LOCAL IDENT- I- FIER	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, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	COBALT, DIS- SOLVED (UG/L AS CO)
HARTFORD COUNTY--Continued									
TOWN OF FARMINGTON--Continued									
F 296	--	--	866	--	--	--	--	--	--
F 297	9.3	11	95	74	1.3	100	<1.00	<1	<3.00
F 301	--	--	721	--	--	--	--	--	--
F 302	75	32	956	1000	<0.1	3800	<1.00	11	120
F 303	--	--	1140	--	--	--	--	--	--
F 304	--	--	770	--	--	--	--	--	--
F 305	--	--	919	--	--	--	--	--	--
F 306	--	--	1050	--	--	--	--	--	--
F 307	--	--	579	--	--	--	--	--	--
F 308	--	--	582	--	--	--	--	--	--
F 309	--	--	665	--	--	--	--	--	--
F 310	95	30	1240	954	<0.1	4500	<1.00	<1	9.00
F 311	--	--	492	--	--	--	--	--	--
F 312	--	--	600	--	--	--	--	--	--
F 313	--	--	599	--	--	--	--	--	--
F 314	--	--	442	--	--	--	--	--	--
F 315	--	--	634	--	--	--	--	--	--
F 316	--	--	330	--	--	--	--	--	--
F 317	--	--	481	--	--	--	--	--	--
F 318	--	--	921	--	--	--	--	--	--
F 319	13	13	134	99	0.69	270	<1.00	<1	<3.00
F 320	--	--	103	--	--	--	--	--	--
F 321	--	--	127	--	--	--	--	--	--

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LOCAL IDENT- IFIER	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
--------------------------	--	--	--	--	--	---	--	--	--

TOWN OF FARMINGTON--Continued

F 296		--	--		--	--	--	--	--
F 297	<10	<3.00	<10	<4.00	57	<10	41	<6.0	<3.00
F 301		--	--		--		--		--
F 302	<10	160000	30	<4.00	13000	30	820	18	<3.00
F 303		--	--		--		--		--
F 304		--	--		--		--		--
F 305		--	--		--		--		--
F 306		--	--		--		--		--
F 307		--	--		--		--		--
F 308		--	--		--		--		--
F 309		--	--		--		--		--
F 310	<10	1400	<10	15	17000	40	1000	<6.0	<3.00
F 311		--	--		--		--		--
F 312		--	--		--		--		--
F 313		--	--		--		--		--
F 314		--	--		--		--		--
F 315		--	--		--		--		--
F 316		--	--		--		--		--
F 317		--	--		--		--		--
F 318		--	--		--		--		--
F 319	<10	9.00	20	<4.00	6	<10	110	<6.0	990
F 320		--	--		--		--		--
F 321		--	--		--		--		--

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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