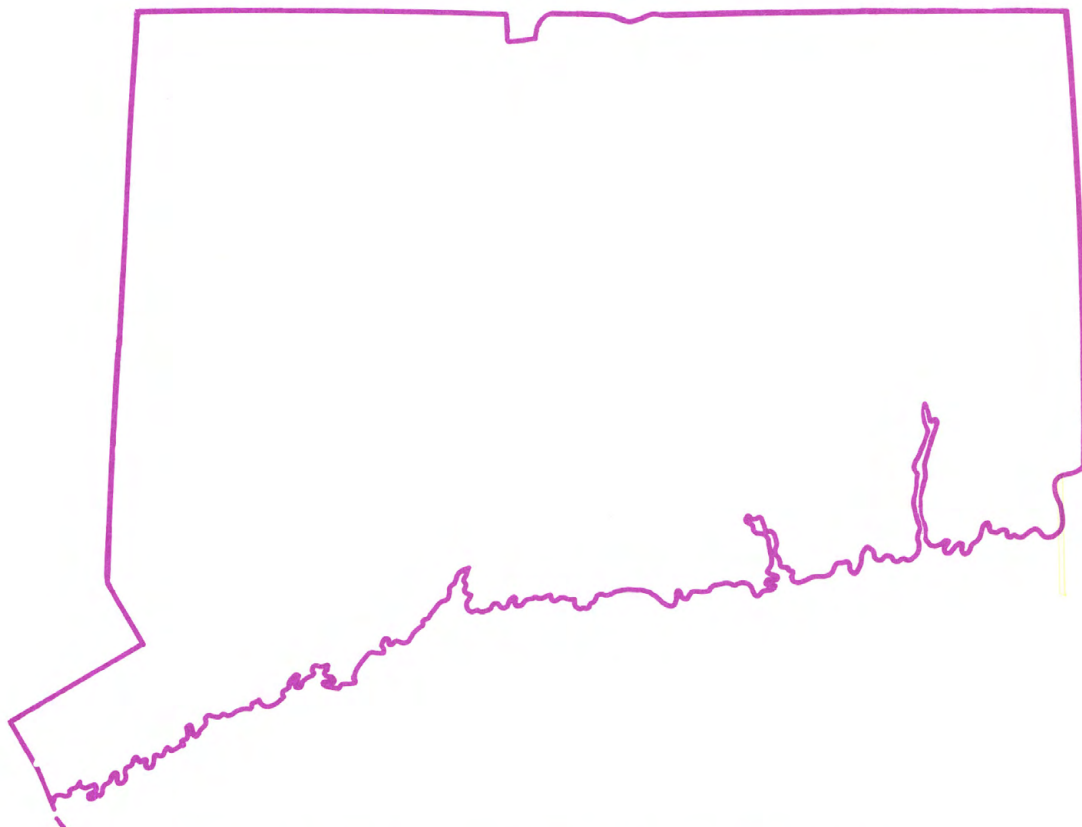
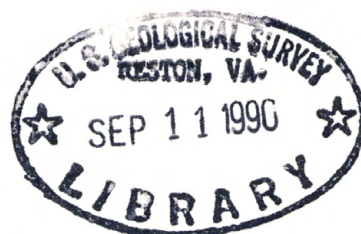


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Water Resources Data Connecticut Water Year 1989



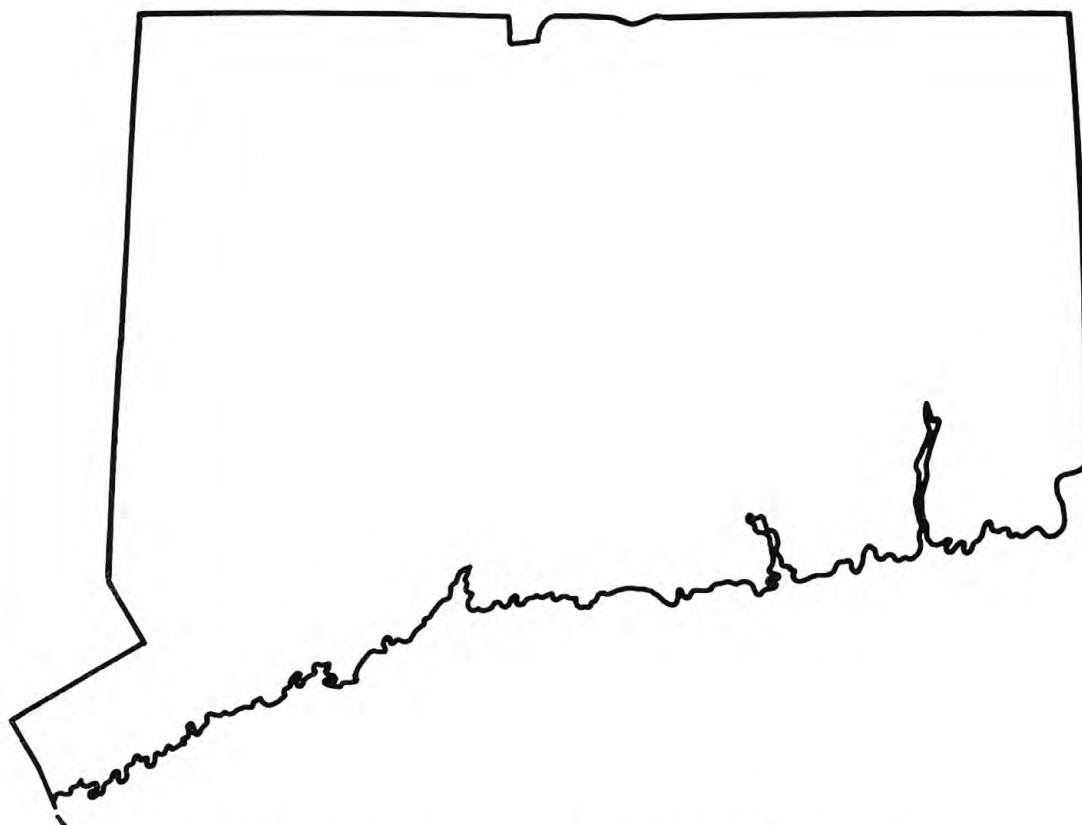
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-89-1
Prepared in cooperation with State of Connecticut
and with other agencies

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Water Resources Data Connecticut Water Year 1989

by M.A. Cervione, Jr., B.S. Davies 3rd, J.R. Bohr, and B.W. Hunter



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-89-1
Prepared in cooperation with State of Connecticut
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. 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

1990

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 one 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 the Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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T.M. Collins
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H.E. Harrison
D.F. Healy
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K.P. Kulp

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M.E. White
S.J. Grady

Clifford H. Keune prepared the illustrations for the report.

Barbara A. Korzendorfer typed and edited the text portions 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 Ivan C. James II, Chief, New England District.

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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[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]

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Well 411256073153101 Local number FF23	230
Well 412429073165101 Local number NT15	231
HARTFORD COUNTY	
Well 414615072581601 Local number BU2	231
Well 415450072332201 Local number EW133	232
Well 415548072311301 Local number EW134	232
Well 415649072494801 Local number GR328	233
Well 415647072495901 Local number GR329	234
Well 415643072502201 Local number GR330	235
Well 415653072501701 Local number GR331	236
Well 413535072253701 Local number MB32	237
Well 413724072551101 Local number SW64	237
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Well 420125073193001 Local number NOC7	238
Well 413202073122401 Local number WY1	238
MIDDLESEX COUNTY	
Well 412809072420701 Local number D116	239
Well 412825072410501 Local number D117	239
Well 412724962411902 Local number D119	240
Well 412824962411901 Local number D120	240
Well 413033072432001 Local number MF1	241
Well 413254072335501 Local number MT261	241
NEW HAVEN COUNTY	
Well 411723072344701 Local number MA314	242
Well 412396962515201 Local number NHV201	242
Well 412550072510701 Local number NHV202	243
Well 413134073021701 Local number WB93	243
Well 413245072584201 Local number WB198	244
NEW LONDON COUNTY	
Well 413457072252201 Local number C0335	244
Well 412013072030601 Local number GT19	245
Well 412824072173301 Local number SM7	245
TOLLAND COUNTY	
Well 414548072114501 Local number MS19	246
Well 414741072134501 Local number MS44	246
WINDHAM COUNTY	
Well 414054071552001 Local number PL1	247
Well 414243072040501 Local number SC19	248
Well 414237072034401 Local number SC20	249
Well 414240072032201 Local number SC21	250
Well 414240072033201 Local number SC22	251

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Well 412446073311901	Local number DY91	270
Well 410410073410701	Local number GW20	294
Well 412834073294301	Local number NFF15	294
Well 412847073282401	Local number NFF16	294
Well 412943073295801	Local number NFF17	294
Well 412320073165201	Local number NT99	254
Well 412453073170201	Local number NT101	254
Well 412308073164301	Local number NT103	254
Well 412129073322201	Local number R66	270
Well 412106073311801	Local number R67	294
Well 412108073311801	Local number R68	294
Well 411713073312001	Local number R69	294
Well 411930073090301	Local number SH44	270
Well 411930073090302	Local number SH45	270
Well 411952073090801	Local number SH46	270
Well 411952073090802	Local number SH47	270
Well 410831073355301	Local number STM42	270
HARTFORD COUNTY		
Well 414905072491301	Local number A304	254
Well 414637072493501	Local number A306	270
Well 413747072550001	Local number CA136	294
Well 414914072530401	Local number CA137	270
Well 414914072530402	Local number CA138	270
Well 420041072304101	Local number EF119	270
Well 420123072311201	Local number EF120	270
Well 420123072311202	Local number EF121	270
Well 420123072311203	Local number EF122	270
Well 420041072304102	Local number EF123	270
Well 420100072322901	Local number EF124	294
Well 415416072311601	Local number EW138	294
Well 414207072514801	Local number F327	254
Well 414324072495601	Local number F329	270
Well 414436072514401	Local number F331	254
Well 414157072520801	Local number F332	254
Well 414208072510601	Local number F333	254
Well 414324072502701	Local number F334	270
Well 414324072502702	Local number F335	270
Well 414324072502703	Local number F336	270
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Well 414232072530601	Local number F338	270
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Well 415819072481002	Local number GR333	270
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Well 415722072475701	Local number GR337	254
Well 415817072491101	Local number GR344	294
Well 414740072301801	Local number M163	254
Well 414814072301901	Local number M164	254
Well 414637072314401	Local number M165	270
Well 414709072330601	Local number M166	254
Well 414528072305101	Local number M171	254
Well 414447072311201	Local number M174	270
Well 414454072311401	Local number M175	270
Well 414206072454601	Local number NB212	270
Well 415251072383001	Local number S1447	276
Well 415351072500501	Local number S1448	254
Well 415234072480301	Local number S1450	254
Well 415300072940301	Local number S1451	276, 294
Well 415340072472501	Local number S1452	276
Well 415441072472601	Local number S1453	276
Well 415248072470401	Local number S1454	276
Well 415248072470402	Local number S1455	276
Well 415105072482201	Local number S1456	276
Well 415306072474501	Local number S1457	276
Well 415306072474502	Local number S1458	276
Well 415434072503701	Local number S1459	276
Well 415422072505401	Local number S1460	276
Well 414907072511801	Local number S1474	294

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Well 415957072445401	Local number SU233	294
Well 415059072393401	Local number W215	276
Well 415056072393901	Local number W216	276
Well 414114072405601	Local number WF181	276
Well 414114072405601	Local number WF182	276,294

LITCHFIELD COUNTY

Well 415400073003501	Local number BA103	297
Well 413709073095001	Local number BM3	297
Well 414630073021601	Local number C36	297
Well 415752073162101	Local number CN30	297
Well 414803073215001	Local number CRN25	297
Well 414608073030201	Local number HA8	297
Well 414319073021701	Local number HA9	297
Well 414533073290601	Local number KT43	297
Well 414622073244401	Local number KT44	297
Well 413354073253901	Local number NM132	276
Well 413750073065301	Local number WA8	276
Well 414527073234201	Local number WR13	297
Well 413128073121901	Local number WY44	254
Well 413130073122201	Local number WY53	254
Well 413300073125901	Local number WY56	254
Well 413258073123001	Local number WY59	276
Well 413232073124001	Local number WY60	254
Well 413053073141801	Local number WY61	254
Well 413320073114101	Local number WY62	276
Well 413322073114101	Local number WY63	276

MIDDLESEX COUNTY

Well 412252072304101	Local number CH269	299
Well 412430072305401	Local number CH270	299
Well 412734072412601	Local number D125	276
Well 412630072401401	Local number D126	299
Well 412244072243801	Local number DR21	299
Well 412252072242701	Local number DR22	299
Well 412651072223701	Local number EHD331	299
Well 413010072413701	Local number MF213	276
Well 413009072473101	Local number MF214	276
Well 412931072434401	Local number MF215	276
Well 412931072434001	Local number MF216	276
Well 412931072434002	Local number MF217	276
Well 412931072434101	Local number MF218	276
Well 413731072373401	Local number P110	276
Well 413731072373402	Local number P111	276
Well 413731072373403	Local number P112	276
Well 413348072353001	Local number P114	299
Well 413557072343601	Local number P115	299
Well 413424072334001	Local number P116	299

NEW HAVEN COUNTY

Well 413301072530301	Local number CS205	299
Well 412354072422101	Local number G404	299
Well 412308072431901	Local number G405	299
Well 412247072434801	Local number G406	299
Well 412423072542801	Local number HM445	282
Well 413110073063501	Local number MD10	299
Well 413112073063101	Local number MD11	299
Well 412918073132501	Local number SB35	282
Well 412916073130001	Local number SB38	254
Well 413131073004802	Local number WB394	282
Well 413323073051101	Local number WB395	282
Well 413131073004801	Local number WB396	282
Well 413806072565201	Local number WC36	299
Well 412805072511401	Local number WLD275	282
Well 412458072471401	Local number WLD276	299
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	Page
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Well 413644072080501 Local number FR23	282
Well 413343071523201 Local number GS85	282
Well 413343071523202 Local number GS86	282
Well 413427071583701 Local number GS88	282
Well 413427071583702 Local number GS89	282
Well 413812072192601 Local number LB51	282
Well 412536071481401 Local number NSN76	299
Well 413001072025701 Local number PS137	282
Well 413241071575101 Local number PS140	299
Well 412857072155901 Local number SM8	299
Well 412111071540401 Local number SN176	282
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TOLLAND COUNTY	
Well 414741072281201 Local number B010	302
Well 414745072210101 Local number CV38	282
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Well 415441072274101 Local number EL86	282
Well 413640072200601 Local number HB39	303
Well 414825072185601 Local number MS45	282
Well 414825072185602 Local number MS46	282
Well 414850072142001 Local number MS47	282
Well 414412072121301 Local number MS48	303
Well 414427072125001 Local number MS49	303
Well 414906072113501 Local number MS53	303
Well 420103072302101 Local number S0108	282
Well 420103072302102 Local number S0109	282
Well 415706072161301 Local number STF25	303
Well 415106072203501 Local number T09	303
Well 415134072292601 Local number V89	254
Well 415155072284601 Local number V92	254
Well 414936072300201 Local number V95	254
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Well 415621072121301 Local number AF15	303
Well 415045072073101 Local number AF16	303
Well 415226072112001 Local number AF17	303
Well 414616071562301 Local number BK130	303
Well 414051072005001 Local number CY144	303
Well 413917072033601 Local number CY145	303
Well 414717072023101 Local number HP29	288
Well 414444072040901 Local number HP30	288
Well 415126071552101 Local number KI388	303
Well 414306071562801 Local number PL440	288
Well 414306071562802 Local number PL441	288
Well 415303072022301 Local number P0111	303
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Well 414211072044301 Local number SC27	303
Well 414208071504501 Local number SG101	288
Well 414208071504502 Local number SG102	288
Well 415755071500001 Local number TH58	303
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Well 415848071500501 Local number TH60	303
Well 415656071573101 Local number WK211	288

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Connecticut each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Connecticut."

This report includes records on both surface and ground water in the State. Specifically, it contains: (1) discharge records for 47 streamflow-gaging stations, for 21 partial-record or miscellaneous streamflow stations, and for 1 tidal volume streamflow station; (2) stage-only records for 4 tidal-gaging stations; (3) content records for 35 lakes and reservoirs; (4) water-quality records for 12 streamflow-gaging stations, for 24 ungaged stream sites, for 1 tidal-gaging station, for 4 lakes and reservoirs, for 2 harbors, for 27 miscellaneous stations, for 5 precipitation stations, and for 179 wells; and (5) water-level records for 35 observation wells. Records included for stream stages and for ground-water levels are only a small fraction of those obtained during the water year.

This series of annual reports for Connecticut began with the 1961 water year with a report that contained only data relating to the quantities of surface water. In 1964, water-quality data were introduced into this series and in 1971, ground-water data were added. Beginning with the 1975 water year, the report was changed to its present format.

Prior to introduction of this series and for several subsequent water years, water-resources data for Connecticut were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part A." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Books and Open-File Reports, Federal Center, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have 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 CI-89-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Geological Survey, Connecticut Office, by writing to the address given on the back of the title page or by telephoning (203) 240-3060.

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, Leslie Carothers,
Commissioner.
Town of Fairfield, Conservation Commission, Thomas J. Steinke, Director.
City of New Britain, Board of Water Commissioners, John A. McManus, Director
Town of Simsbury, Margaret C. Shanks, First Selectman.
South Central Connecticut Regional Water Authority, Alan Hess, Director of Engineering.
City of Torrington, Department of Public Works, Matthew Dominy, Director.

Assistance in the form of funds was given by the U.S. Army Corps of Engineers, 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.; South Central Connecticut Regional Water Authority.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff

Runoff for much of the 1989 water year was in the above-normal range, based on the 30-year reference period October 1950 to September 1980, at the four index stations--Mount Hope River near Warrenville, Salmon River near East Hampton, Burlington Brook near Burlington, and Pomperaug River at Southbury. During the months of November and May, the four index stations recorded new maximum monthly flows for the period of record. Monthly runoff conditions for Connecticut are summarized below:

October (most of state)	below normal
November (most of state)	above normal
December	normal
January	below normal
February	below normal
March	below normal
April	normal
May	above normal
June	above normal
July	above normal
August	above normal
September	above normal

Monthly and long-term median monthly discharges for the four index stations are given in table 1.

Reservoir Storage

Significant variations in the amount of storage in the 8 principal municipal systems occurred during the water year. The systems range in usable capacity from 1.15 bg (Norwalk) to 39.8 bg (Hartford). Storage averaged 50 percent of capacity for October and steadily increased to 98 percent for June. Reservoir storage then gradually declined seasonally to 81 percent of capacity in September.

Precipitation

Precipitation totals for the 1989 water year were above the median annual, but remained in the normal range, based on the 30-year reference period October 1950 to September 1980, at most stations inventoried. Four of the 10 stations recorded the highest May precipitation totals for the period of record. Monthly precipitation for Connecticut is summarized below:

October	normal
November	above normal
December	below normal
January to March	below normal
April	normal
May to September	above normal

Cumulative precipitation and departures from normal for the 10 index stations are shown in table 2.

Ground-Water Levels

Monthly ground-water levels for the beginning of the water year were mostly in the normal range statewide and rose to the above-normal range for November. In December, levels returned to the normal range, except in northwestern Connecticut, where they remained above normal.

Ground-water levels then declined unseasonally during January and were below normal statewide; they remained below normal during February and March. In April, levels rose and were normal throughout the State.

In May, heavy rains caused most ground-water levels to rise into the above-normal range statewide; they remained above normal through September, except for one well in Waterbury, which was in the normal range for July to September.

All wells located in southwestern and south-central Connecticut had record high levels for May. Two wells in Fairfield and Mansfield had record high levels in September.

Table 1.--Monthly and long-term median monthly discharges for index stations in Connecticut for the 1989 water year
[Discharges in cubic feet per second]

Month	Station number and location ^{a/}							
	01121000 Mount Hope River near Warrentonville		01188000 Burlington Brook near Burlington		01193500 Salmon River near East Hampton		01204000 Pomperaug River at Southbury	
	Monthly	Median 1951-80	Monthly	Median 1951-80	Monthly	Median 1951-80	Monthly	Median 1951-80
October	15.2	17.4	1.8	3.3	36.3	62.8	15.0	36.6
November	97.2	38.7	16.0	7.6	294	119	178	96.2
December	45.4	61.8	6.1	6.1	165	199	130	163
January	34.4	56.1	5.0	8.5	136	215	81.6	114
February	49.4	64.4	5.5	7.9	183	235	90.7	154
March	53.5	103	7.4	16.1	204	377	112	254
April	93.5	94.5	12.0	16.0	340	347	221	243
May	113	58.7	30.1	9.4	482	227	501	146
June	98.3	22.6	12.4	4.1	456	83.8	222	54.7
July	39.9	12.3	5.2	2.7	165	44.4	81.6	34.9
August	106	9.4	6.5	2.2	229	29.9	102	30.2
September	30.0	9.1	5.9	2.5	103	36.9	83.9	28.8

^{a/} See figure 1 for station locations.

Table 2.--Precipitation and departure from normal, in inches for the 1989 water year for index stations in Connecticut
[Data from the National Weather Service]

Station	Cumulative Precipitation 1989 water year	Departure from median annual ^{1/}
Bridgeport	51.50	11.89
Groton	65.78	18.81
Hartford WSOAP	54.39	11.37
Mansfield Hollow Dam	55.98	11.58
Mount Carmel	60.59	13.50
Norfolk	58.53	6.37
Putnam Lake	59.67	9.40
Shepaug Dam	61.75	15.04
Stevenson Dam	63.35	14.38
Storrs	57.51	8.89

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

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting; (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) to detect changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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 THE RECORDS

The surface-water and ground-water records published in this report are for the 1989 water year that began October 1, 1988, and ended September 30, 1989. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, content data for lakes and reservoirs, water-quality data for surface and ground water, precipitation data, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figures 1 and 2. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report, whether streamsite or well, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells and precipitation stations.

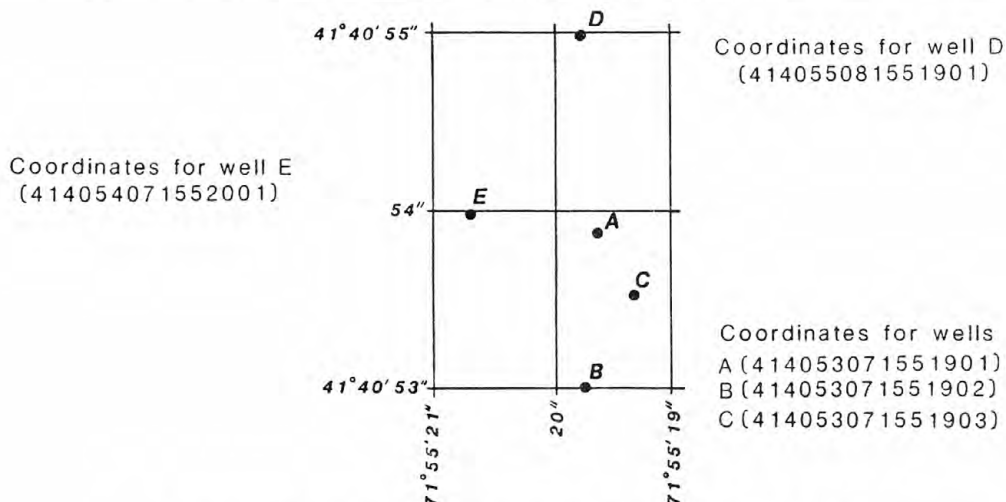
Downstream Order System

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 mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this 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.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 01188000, which appears just to the left of the station name, includes the two-digit Part number "01" plus the six-digit downstream-order number "188000". The Part number designates the major river basin; for example, part "01" is the North Atlantic Slope basin.

Latitude-Longitude System

The identification number for wells and precipitation sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (see figure below).



System for numbering wells and precipitation sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chap. A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

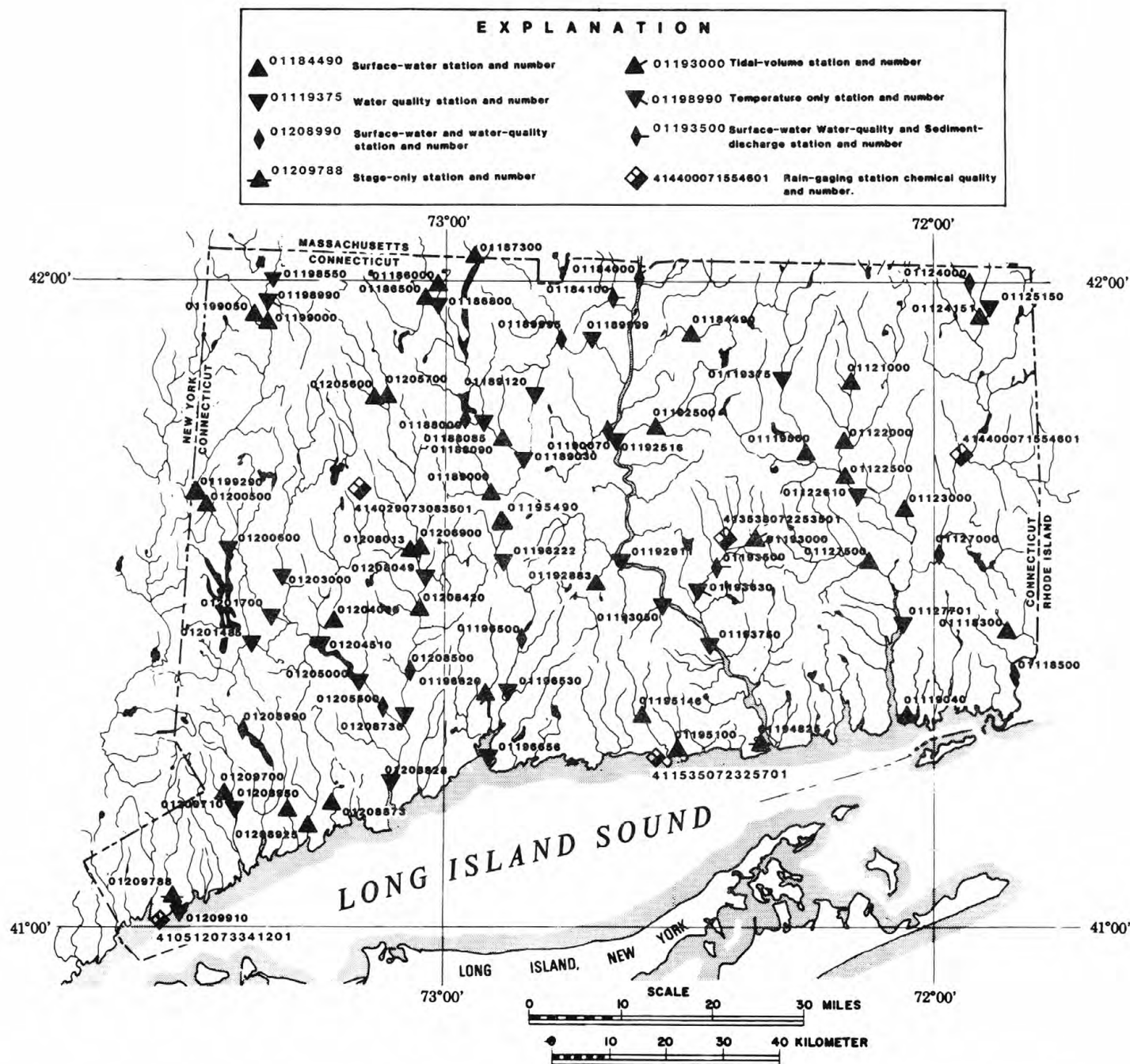


Figure 1.--Locations of active surface-water gaging and surface-water quality stations.

Data Collection and Computation--Continued

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the 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.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consists of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum discharge was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to as the National Geodetic Vertical Datum of 1929 (NGVD of 1929) (see definitions), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

Data Presentation--Continued

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If a maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the Connecticut office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), 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 or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. 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.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor". Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth for values between 1.0 and 10 ft³/s; to whole numbers for values between 10 and 1,000 ft³/s; and to 3 significant figures for values more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, 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 Records Available

Records of discharge, not published by the Geological Survey, are collected in Connecticut at several sites by the U.S. Army Corps of Engineers. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Geological Survey, Connecticut Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the Geological Survey, Connecticut Office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of records

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.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection unless indicated under "REMARKS". 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.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on p. 25-26 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey, Connecticut Office.

One sample can adequately define 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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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 a 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 Geological Survey, Connecticut 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 closely follow 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. Water temperatures measured at the time of water-discharge measurements are on file with the Geological Survey, Connecticut Office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. 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 discharges 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.

Sediment--Continued

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 and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Sediment samples are analyzed in Harrisburg, Pa., samples for indicator bacteria and specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colo. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. 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. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

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 (USEPA) 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.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Records of Ground-Water Levels

Water-level data from a national and state network of observation wells are given in this report. These data are intended to provide a historical record of water-level changes in the State. Locations of the observation wells in this network in Connecticut are shown in figure 2.

In this report, records of water levels are presented for 35 wells that were obtained through cooperative efforts of the U.S. Geological Survey and the Connecticut Department of Environmental Protection and are placed in computer storage. Information about the availability of the data in the water-level file may be obtained from the Geological Survey, Connecticut Office.

Data Collection and Computation

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

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, composed of an abbreviation of the town name and a sequential number.

Water-level records are obtained from direct measurements with a steel tape, from a recorder graph, or from a punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum 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 and measurements are reported to the nearest hundredth of a foot.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification numbers and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age, the aquifer that supplies water to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection methods used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The altitude of the land-surface datum is described in feet above (or below) the NGVD of 1929; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurements of the water level.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the Geological Survey and the words "to current year" if the records are to be continued into the following year.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, water-level lows are listed for every day. The highest and lowest water levels of the water year and their dates of occurrence are also shown. Missing records are indicated by dashes in places of water level.

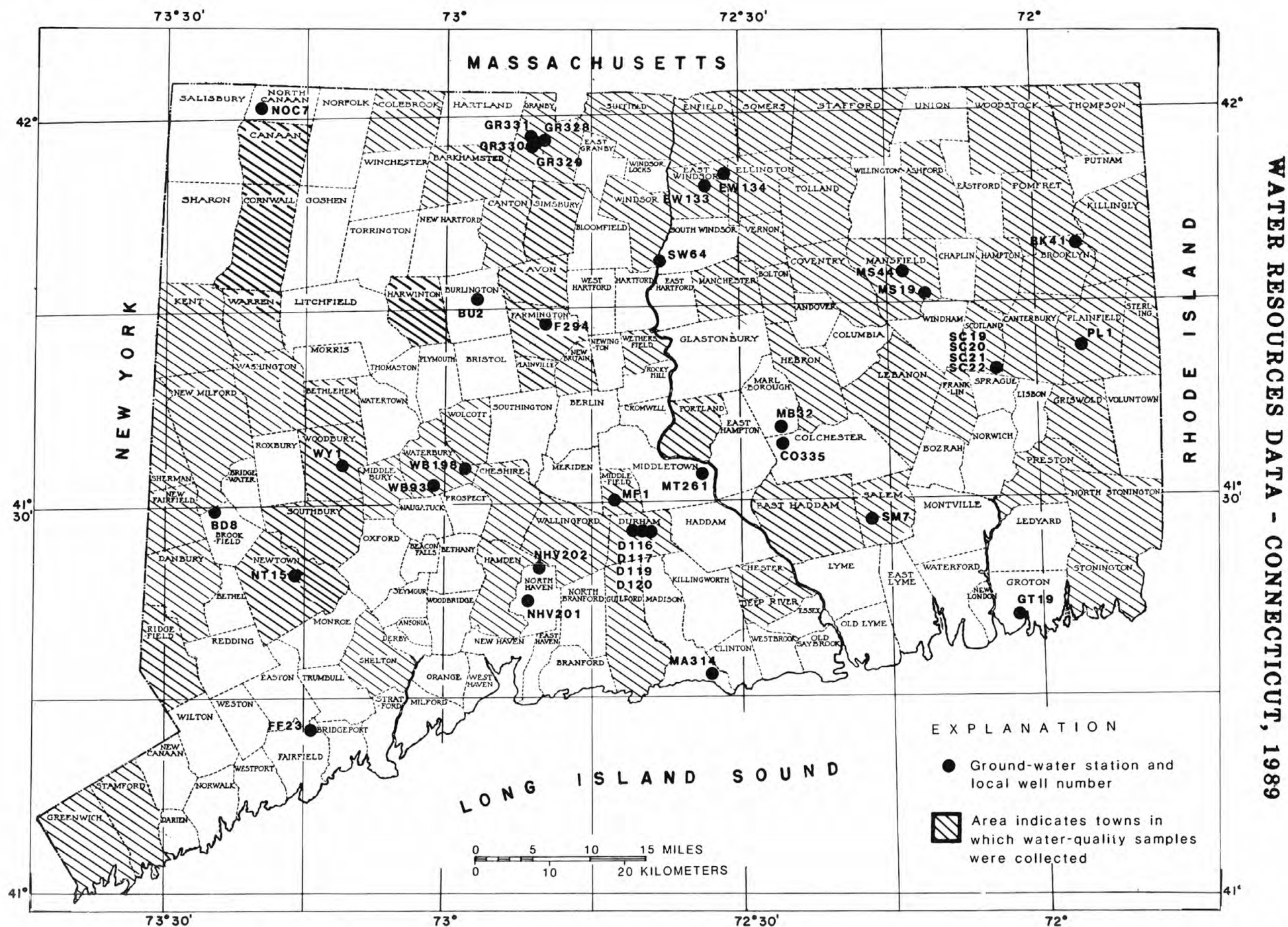


Figure 2.--Location of observation wells and ground-water-quality sampling areas.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be obtained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the TWRI manuals listed on p. 25-26 of this report. The values presented in this report represent, to the extent possible, the water-quality conditions at the time of sampling, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it could have been exposed to the atmosphere and to the casing materials, which may have been metal.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by county, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records, are also applicable to ground-water-quality records.

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 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

WATER-QUALITY CRITERIA

Section 304(a)(1) of the Clean Water Act (33 USC 1314(a)(1)) stipulates that ambient water-quality criteria be published and periodically updated by the EPA. These criteria reflect the latest scientific knowledge of the effects of pollutants on biological community health and diversity, and the concentration and dispersal of pollutants through biological, physical and chemical processes (see table 3). These criteria are guides and indicate limiting values of various parameters in water to provide adequate protection of water users, essential aquatic life, and consumers of such aquatic life.

Table 3.-- Water-quality criteria

[Limiting value: *, minimum recommended value; !, one hour average concentration once every three years; &, represents an estimated cancer risk of 1:1,000,000 over a lifetime (recommended maximum contaminant level is 0 for maximum protection of human health); \$, geometric mean, based on not less than 5 samples. Units: mg/L, milligrams per liter; µg/L, micrograms per liter; ng/L, nanograms per liter; col/100 mL, colonies per 100 milliliters.

Water use (or for the protection of): 1, marine aquatic life; 2, freshwater aquatic life; 3, crop irrigation; 4, domestic water supply source; 5, potable drinking water, based on health effects; 6, potable drinking water, based on aesthetic considerations; 7, primary contact.

Basis for selection: A, maximum levels recommended by: U.S. Environmental Protection Agency, Quality Criteria for Water, 1986; B, maximum contaminant level established by: U.S. Environmental Protection Agency, National Primary Drinking Water Regulations, revised as of July 1, 1986; C, Secondary maximum contaminant level established by: U.S. Environmental Protection Agency, National Secondary Drinking Water Regulations, revised as of July 1, 1986]

Parameter name	Limiting value	Units	Use	Basis for selection
Alkalinity, total (as CaCO ₃)	20 *	mg/L	2	A
Arsenic	50	µg/L	4,5	B
Barium	1000	µg/L	4,5	A,B
Beryllium	6.8 &	ng/L	4,5	A
	130	µg/L	2	A
Boron	750	µg/L	3	A
Cadmium	43	µg/L	1	A
	10 !	µg/L	4,5	A,B
Chloride	250	mg/L	6	C
Chromium III	170	µg/L	4,5	A
Chromium VI	16 !	µg/L	2	A
	50	µg/L	4,5	A,B
	1100 !	µg/L	1	A
Color	15	color units	6	C
Copper	1	mg/L	6	A,C
Cyanide	1 !	µg/L	1	A
	22 !	µg/L	2	A
	200	µg/L	4,5	A,B
Fecal coliform	126 \$	col/100mL	7	A
	1 \$	col/100mL	4,5	B
Dissolved solids	500	mg/L	6	C
Iron	300	µg/L	4	A,C
	1000	µg/L	2	A
Fluoride	2000	µg/L	6	C
Lead	50	µg/L	4,5	A,B
	140	µg/L	1	A
Manganese	50	µg/L	4,6	A,C
Mercury	2.1 !	µg/L	1	A
	2.4 !	µg/L	2	A
	144	µg/L	4,5	A
Nickel	7.1	µg/L	1	A
	13.4	µg/L	4,5	A

Table 3.--Water-quality criteria--continued

Parameter name	Limiting value	Units	Use	Basis for selection
Nitrate	10	mg/L	4,5	A,B
Oxygen, dissolved	5 *	mg/L	2	A
pH	6.5-8.5		1,6	A,C
	6.5-9.0		2	A
	5.0-9.0		4	A
Selenium	10	µg/L	4,5	A,B
	35	µg/L	2	A
	54	µg/L	1	A
Silver	2.3	µg/L	1	A
	50	µg/L	4,5	A,B
Sulfate	250	µg/L	6	A,C
Zinc	47	µg/L	2	A
	58	µg/L	1	A
	5000	µg/L	4,6	A,C
Aldrin-dieldrin	.074 &	ng/L	4,5	A
	.71	µg/L	1	A
	2.5	µg/L	2	A
Benzene	.66	µg/L	4,5	A
Carbon tetrachloride	.40 &	µg/L	4,5	A
Chlordane	.46 &	ng/L	4,5	A
	4.3	ng/L	2	A
Chlorinated benzenes				
monochlorobenzene	20	µg/L	6	A
dichlorobenzene	400	µg/L	4,5	A
1,2,4,5-tetrachlorobenzene	38	µg/L	4,5	A
pentachlorobenzene	74	µg/L	4,5	A,B
hexachlorobenzene	.72 &	ng/L	4,5	A
Chloroform	.19 &	µg/L	4,5	A
DDT and metabolites	.024 &	ng/L	4,5	A
Demethon	.1	µg/L	1,2	A
1,1 Dichloroethylene	.033 &	µg/L	4,5	A
Endosulfan	74	µg/L	4,5	A
Endrin	1.0	µg/L	4,5	A
	2.3	ng/L	1,2	A
Ethylbenzene	1.4	ng/L	4,5	A
Guthion	.01	µg/L	1,2	A
Heptachlor	.28 &	ng/L	4,5	A
Lindane	4	µg/L	4,5	B
Malathion	.1	µg/L	1,2	A
MBAS	.5	mg/L	6	C
Methoxychor	.03	µg/L	1,2	A
	100	µg/L	4,5	A,B
Mirex	1	ng/L	1,2	A
Parathion	.04	µg/L	1,2	A
PCB	.079 &	ng/L	4,5	A
Phenol	3.5	mg/L	4,5	A
	.3	mg/L	6	A
Toxaphene	.71 &	ng/L	4,5	A
Silvex	10	µg/L	4,5	A
Trichloroethylene	2.7 &	µg/L	4,5	A
Toluene	14.3 &	µg/L	4,5	A
Vinyl chloride	2.0 &	µg/L	4,5	A

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Also, please see table for converting English units to International System (SI) Units 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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled 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 sample.

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, while 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 all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded 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-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir or estuary bottom is composed.

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/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 105°C for zooplankton and periphyton, until the mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

DEFINITION OF TERMS--Continued

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

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

Bottom material: See Bed 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).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes 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 green 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 [(ft³/s)/mi²] 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) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day [(ft³)/d] is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

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- μ m 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.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

DEFINITION OF TERMS--Continued

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 computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions with those observed in basins more obviously affected by the activities of man.

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 eight-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 an arbitrary 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 substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

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

Micrograms per liter ($\mu\text{g/L}$) is a unit for 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 dry sediment per liter of water-sediment mixture.

Nanograms per liter (ng/L) is a unit for expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One thousand nanograms per liter is equivalent to one microgram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) 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 of 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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting; (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) to detect changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

DEFINITION OF TERMS--Continued

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meter (m^2), acre, or hectare. 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 milliliter (mL) or liter (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.

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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 a particle 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 the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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 distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter 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 is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

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

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.

DEFINITION OF TERMS--Continued

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

Green algae has 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 per milliliter (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.

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 [$\text{mgC}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mgC}/(\text{m}^3 \cdot \text{time})$] 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 [$\text{mgO}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mgO}/(\text{m}^3 \cdot \text{time})$] 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.

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.

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 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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed or very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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

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

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

DEFINITION OF TERMS--Continued

Suspended-sediment discharge is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: Concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

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

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (Q_{10}^7) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-rate (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance 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 microsiemens 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 microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the 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 lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

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 multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton.

Surface area of a lake is that area outlined on the latest Geological Survey 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 the 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 undissolved material in a water-sediment mixture. It is associated with the 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- μm 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 are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

DEFINITION OF TERMS--Continued

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- μ m 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 hierarchal scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

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

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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 of the constituent, in milligrams per liter, by 0.00136.

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

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 determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

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 are required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

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.

DEFINITION OF TERMS--Continued

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1989, is called the "1989 water year."

WDR is used as an abbreviation of "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

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.

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

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to 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, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for 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-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 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.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 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 in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 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-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-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-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 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. J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 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 the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 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-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 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.

WATER RESOURCES DATA - CONNECTICUT, 1989

SURFACE-WATER RECORDS

REMARK CODES.-- The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the accepted range (non-ideal colony count)

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 01090005, on left bank just upstream from twin culverts on Grindstone Hill Road, 0.1 mi west of State Highway 49 in the township of North Stonington, 1.6 mi northwest of Clarks Falls, and 3.4 mi northeast of village of North Stonington.

DRAINAGE AREA.--4.02 mi².

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

REVISED RECORDS.--WDR CT-85-1: 1982 (P).

GAGE.--Water-stage recorder. Datum of gage is 152.90 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of estimated record, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--31 years, 8.68 ft³/s, 29.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 304 ft³/s, June 5, 1982, gage height, 6.73 ft; minimum, no flow Aug. 22, 1987.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0130	*81	*3.25	Apr. 16	--	74	3.11

Minimum discharge 0.42 ft³/s, Oct. 1, 2, gage height 0.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	8.7	18	e10	e9.5	e11	21	e11	e7.0	3.0	1.5	4.0
2	.49	23	15	e8.0	e9.0	e10	16	e40	e7.0	2.7	1.5	3.1
3	.76	12	13	e8.0	e9.0	e9.5	16	e25	e8.5	2.4	1.4	2.4
4	e1.0	7.6	12	6.3	e9.0	e9.0	e18	e23	e7.0	2.4	1.2	1.9
5	e1.1	6.0	11	5.5	e8.0	e8.5	e18	e21	e6.0	4.1	1.2	1.7
6	e.90	5.7	9.9	4.3	e7.5	e8.5	e22	e46	e6.0	6.0	1.1	1.7
7	e.80	4.9	9.6	4.6	e6.5	8.2	e28	e25	8.0	e7.0	1.3	1.6
8	2.6	4.2	9.1	5.7	e6.0	7.5	e28	e20	7.5	e4.5	2.2	1.5
9	2.7	3.8	8.4	6.6	e5.5	6.9	e25	e18	17	e3.5	1.6	1.4
10	2.0	3.6	7.7	5.7	e5.0	e6.5	e18	e17	32	e3.5	1.2	1.3
11	1.6	4.7	7.0	5.3	e4.5	e6.5	e16	e50	16	e4.0	17	1.3
12	1.3	4.1	5.9	6.7	e4.3	e6.2	e14	e45	11	e3.3	34	1.2
13	1.1	4.9	5.9	11	e4.2	e6.0	e13	e30	11	e2.0	18	1.1
14	1.1	7.3	12	8.1	e7.0	e6.0	e12	e20	10	3.3	12	1.6
15	e1.0	5.7	11	15	e10	6.9	e12	e17	11	4.0	8.4	7.0
16	e1.0	4.6	8.7	14	12	6.8	e50	e16	19	3.0	6.2	6.3
17	e1.0	6.3	7.1	e11	9.3	6.4	e30	e16	13	24	6.3	8.4
18	e1.2	7.3	6.2	e9.0	7.2	7.5	e25	e13	14	15	5.3	6.2
19	1.8	5.7	5.8	e8.0	6.4	11	e20	e11	10	9.3	4.4	6.8
20	1.9	24	5.7	e7.0	6.1	8.6	e15	e9.5	8.4	6.7	4.3	7.6
21	2.3	55	e8.0	e6.5	21	19	e13	e9.0	7.2	10	4.1	6.0
22	8.7	26	e8.0	e6.5	e30	14	e11	e8.5	6.7	7.1	3.9	4.8
23	6.6	18	e7.5	e6.0	e25	11	e11	e8.0	6.5	5.0	3.2	4.1
24	4.8	15	e10	e6.0	e15	20	e10	e10	6.5	4.0	2.7	3.7
25	4.1	13	e21	e6.0	e14	40	e10	e25	5.8	3.3	2.2	3.2
26	3.6	12	e15	e7.0	e13	23	e9.0	e14	4.9	2.8	2.0	13
27	3.3	12	e12	e13	e12	17	e9.0	e12	4.4	2.4	1.8	12
28	3.1	49	e15	e11	e12	15	e8.0	e12	4.1	2.2	1.7	7.6
29	e2.2	34	e20	e9.0	---	14	e8.0	e9.0	3.8	1.9	5.2	5.8
30	e2.0	23	e17	e10	---	13	e15	e7.5	3.3	1.7	9.7	4.6
31	e1.9	---	e12	e10	---	27	---	e7.0	---	1.6	6.1	---
TOTAL	68.39	411.1	334.5	250.8	288.0	370.5	521.0	595.5	282.6	155.7	172.7	132.9
MEAN	2.21	13.7	10.8	8.09	10.3	12.0	17.4	19.2	9.42	5.02	5.57	4.43
MAX	8.7	55	21	15	30	40	50	50	32	24	34	13
MIN	.44	3.6	5.7	4.3	4.2	6.0	8.0	7.0	3.3	1.6	1.1	1.1
CFSM	.55	3.41	2.68	2.01	2.56	2.97	4.32	4.78	2.34	1.25	1.39	1.10
IN.	.63	3.80	3.10	2.32	2.67	3.43	4.82	5.51	2.62	1.44	1.60	1.23

CAL YR 1988 TOTAL 2590.68 MEAN 7.08 MAX 82 MIN .13 CFSM 1.76 IN. 23.97
WTR YR 1989 TOTAL 3583.69 MEAN 9.82 MAX 55 MIN .44 CFSM 2.44 IN. 33.16

e Estimated

01118500 PAWCATUCK RIVER AT WESTERLY, R.I.
(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 good except those for estimated daily discharges, which are 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.--48 years (water years 1942-89), 578 ft³/s, 26.61 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, 1,770 ft³/s, May 12, gage height, 6.52 ft; minimum daily, 78 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	e180	1250	492	464	e551	e1040	e1200	e620	e380	e280	411
2	84	e600	1100	464	443	e535	e980	e1400	e590	e355	e270	346
3	92	e750	974	443	430	e520	e942	e1640	e620	e330	e255	289
4	e106	e660	874	430	430	e515	e975	e1500	e600	e315	e240	254
5	e115	e500	789	341	411	e520	e940	e1330	e580	e335	e230	237
6	e123	e383	717	330	392	e554	e1080	e1320	e525	e370	e240	230
7	e131	e330	661	335	e381	e539	e1240	e1270	e540	e430	e255	218
8	e151	e290	630	341	e369	e496	e1330	e1140	e620	e400	e270	214
9	e181	e255	592	375	e359	e477	e1340	e1030	e800	e365	e250	207
10	e200	230	559	375	e332	e469	e1240	e965	e1140	e335	241	200
11	e178	241	521	357	e325	e460	e1120	e1480	e1400	e310	369	197
12	e160	246	470	357	e310	e467	e999	e1750	e1300	e290	1160	197
13	e140	246	411	477	e325	e467	e942	e1680	e1080	e270	1360	190
14	e129	294	536	513	e414	e457	e900	e1560	e950	e310	1210	194
15	e119	352	693	552	e515	e460	e874	e1350	e880	e380	1000	276
16	e111	309	701	726	e600	e455	e1300	e1240	e1080	e371	851	380
17	e105	299	615	677	e511	e440	e1740	e1170	e1200	e735	726	583
18	e98	352	536	583	e450	e472	e1700	e1120	e1000	e1020	630	607
19	e94	346	470	536	e412	e578	e1500	e1040	e930	e886	552	567
20	e90	380	443	499	e397	e578	e1360	e950	e811	e778	492	645
21	e91	1200	443	464	e700	e720	e1220	e890	e710	e737	443	615
22	e200	1530	464	411	e1070	e763	e1090	e810	e646	e636	424	536
23	e290	1390	464	386	e980	e693	e978	e760	e610	e559	375	464
24	e270	1160	536	386	e833	e665	e891	e710	e581	e486	341	424
25	e225	991	607	386	e698	e1120	e836	e690	e547	e441	299	375
26	e200	859	607	386	e631	e1170	e780	e660	e513	e404	271	477
27	e170	767	544	464	e612	e1100	e730	e720	e479	e371	254	717
28	e157	835	506	484	e575	e1020	e685	e780	e453	e352	246	701
29	e154	1340	544	470	---	e960	e661	e760	e420	e330	267	600
30	e150	1400	567	457	---	e920	e1000	e700	e400	e315	399	499
31	e153	---	528	470	---	e970	---	e650	---	e295	484	---
TOTAL	4545	18715	19352	13967	14369	20111	32413	34265	22625	13891	14684	11850
MEAN	147	624	624	451	513	649	1080	1105	754	448	474	395
MAX	290	1530	1250	726	1070	1170	1740	1750	1400	1020	1360	717
MIN	78	180	411	330	310	440	661	650	400	270	230	190
CFSM	.50	2.11	2.12	1.53	1.74	2.20	3.66	3.75	2.56	1.52	1.61	1.34
IN.	.57	2.36	2.44	1.76	1.81	2.54	4.09	4.32	2.85	1.75	1.85	1.49

CAL YR 1988 TOTAL 173891 MEAN 475 MAX 1940 MIN 75 CFSM 1.61 IN. 21.93
WTR YR 1989 TOTAL 220787 MEAN 605 MAX 1750 MIN 78 CFSM 2.05 IN. 27.84

e Estimated

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 and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 354 microsiemens June 25, 1985; minimum, 27 microsiemens June 7, 1982.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 9, 1980, Aug. 17, 18, 1987; minimum, 0.0°C on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 158 microsiemens Oct. 24; minimum, 61 microsiemens Feb. 26.

WATER TEMPERATURES: Maximum, 20.0°C Oct. 1, 2; minimum, 0.5°C on many days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
OCT 19...	0930	E94	125	7.00	12.0	13.0	--	0.80	9.6	91	--	--
NOV 10...	1100	230	107	6.78	14.0	9.0	--	1.5	11.0	94	--	1.0
DEC 14...	1040	536	101	6.70	5.0	3.0	--	1.0	13.0	96	24	--
JAN 11...	1047	357	102	6.68	6.0	3.0	--	1.5	14.0	102	--	1.0
FEB 22...	1318	E1070	87	6.27	7.0	3.5	--	--	13.2	100	--	--
MAR 15...	1410	E460	94	6.59	9.0	6.0	28	1.0	12.9	104	11	--
APR 11...	0950	E1120	72	6.41	14.0	8.0	--	1.0	11.8	97	--	--
MAY 18...	0900	E1120	69	6.47	26.0	17.0	--	0.60	9.1	94	--	1.0
JUN 14...	0950	E950	60	6.44	20.0	17.0	--	1.2	8.7	89	32	--
JUL 13...	1230	E270	93	6.76	22.5	22.5	--	1.2	8.9	103	--	<1.0
AUG 08...	0950	E270	96	6.96	22.0	24.0	--	0.85	8.4	100	--	--
SEP 01...	0900	411	85	6.55	26.0	20.0	70	1.2	8.2	90	19	<1.0

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FECAL, 0.45 UM-MF (COLS./100 ML)	STREP-TOCOCOI, KF AGAR (COLS. PER 100 ML)	COLI-FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS TOTAL (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)	BICAR-BONATE WATER WH IT FIELD (MG/L AS HCO3)	ALKA-LINITY WAT WH TOT IT FIELD (MG/L AS CaCO3)	ALKA-LINITY LAB (MG/L AS CaCO3)
OCT 19...	500	30	84	--	23	5.9	1.9	--	--	--	--	--
NOV 10...	2400	K16	46	32	20	5.3	1.7	13	1.6	11	9	10
DEC 14...	5100	51	1500	--	18	4.7	1.4	--	--	--	--	--
JAN 11...	970	K15	800	K3	18	4.8	1.5	11	2.0	11	9	8.0
FEB 22...	5400	280	13000	300	--	--	--	--	--	--	--	--
MAR 15...	530	240	400	--	17	4.6	1.4	11	1.1	--	--	8.0
APR 11...	1500	33	31	--	15	3.7	1.4	--	--	--	--	--
MAY 18...	1300	140	50	230	13	3.6	1.0	8.9	1.1	4	3	5.0
JUN 14...	550	110	110	--	14	3.6	1.1	--	--	--	--	--
JUL 13...	540	60	150	110	18	4.7	1.4	9.9	1.0	15	12	9.0
AUG 08...	700	320	410	--	20	5.4	1.5	--	--	--	--	--
SEP 01...	2800	68	320	--	16	4.3	1.2	10	1.2	--	--	8.0

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (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)
OCT 19...	16	14	--	--	89	0.12	--	92	--	<0.010	0.600	--
NOV 10...	16	13	0.10	9.6	89	0.12	--	103	0.290	0.010	0.300	0.290
DEC 14...	19	14	--	--	67	0.09	<1	80	--	<0.010	0.400	--
JAN 11...	17	13	0.10	9.3	68	0.09	--	81	--	<0.010	0.500	0.490
FEB 22...	--	--	--	--	--	--	--	--	--	<0.010	0.400	--
MAR 15...	--	13	--	--	59	0.08	5	--	0.360	0.040	0.400	--
APR 11...	8.8	11	--	--	60	0.08	--	60	--	<0.010	0.200	--
MAY 18...	10	10	0.10	3.7	54	0.07	--	116	--	<0.010	0.100	0.150
JUN 14...	9.0	11	--	--	62	0.08	<1	70	--	<0.010	0.200	--
JUL 13...	10	14	0.10	7.7	71	0.10	--	66	--	<0.010	0.400	0.430
AUG 08...	11	12	--	--	66	0.09	--	66	0.490	0.010	0.500	--
SEP 01...	8.0	12	--	--	66	0.09	<1	--	0.280	0.020	0.300	--

DATE	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)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)
OCT 19...	<0.010	--	--	0.40	1.0	0.030	0.010	0.030	--	--	--	--
NOV 10...	0.050	0.050	0.45	0.50	0.80	0.030	0.030	0.010	<0.010	--	130	--
DEC 14...	0.060	--	0.44	0.50	0.90	0.020	0.020	0.030	--	--	--	--
JAN 11...	0.050	0.060	0.45	0.50	1.0	0.020	0.010	0.020	0.010	--	70	--
FEB 22...	0.050	--	0.55	0.60	1.0	0.050	--	0.030	--	--	--	--
MAR 15...	0.030	--	0.17	0.20	0.60	0.020	0.010	0.020	--	80	--	<1
APR 11...	0.030	--	0.27	0.30	0.50	0.010	0.010	0.020	--	--	--	--
MAY 18...	0.030	0.060	0.37	0.40	0.50	0.020	0.020	<0.010	<0.010	--	130	--
JUN 14...	0.040	--	0.46	0.50	0.70	0.040	0.010	0.020	--	--	--	--
JUL 13...	0.040	0.020	0.26	0.30	0.70	0.030	0.010	0.030	0.020	--	70	--
AUG 08...	0.020	--	0.88	0.90	1.4	0.040	0.030	0.020	--	--	--	--
SEP 01...	0.020	--	0.38	0.40	0.70	0.040	0.030	0.030	--	110	--	<1

PAWCATUCK RIVER BASIN

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0118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	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	--	--	<1	--
NOV 10...	<1	13	<0.5	--	--	<1	--	<1	<3	--	2	--
DEC 14...	--	--	--	--	--	<1	--	<1	--	--	<1	--
JAN 11...	<1	12	<0.5	--	--	<1	--	<1	<3	--	<1	--
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	40	1	<1	1	<1	--	6	1	170
APR 11...	--	--	--	--	--	<1	--	2	--	--	1	--
MAY 18...	<1	10	<0.5	--	--	<1	--	1	<3	--	3	--
JUN 14...	--	--	--	--	--	1	--	<1	--	--	1	--
JUL 13...	<1	10	<0.5	--	--	<1	--	<1	<3	--	1	--
AUG 08...	--	--	--	--	--	<1	--	<1	--	--	1	--
SEP 01...	--	--	--	<10	<1	<1	<1	<1	--	3	<1	570

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, TOTAL RECOV- ERABLE (UG/L AS MO)	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...	--	--	<5	--	--	--	--	--	--	--	--	<1
NOV 10...	290	--	<5	<4	--	36	--	<0.1	--	<10	--	3
DEC 14...	--	--	<5	--	--	--	--	--	--	--	--	<1
JAN 11...	160	--	<5	<4	--	39	--	0.1	--	<10	--	<1
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	<5	<5	--	30	--	0.10	--	2	--	3	1
APR 11...	--	--	<5	--	--	--	--	--	--	--	--	<1
MAY 18...	290	--	1	<4	--	37	--	0.3	--	<10	--	1
JUN 14...	--	--	1	--	--	--	--	--	--	--	--	1
JUL 13...	380	--	<1	<4	--	27	--	0.3	--	<10	--	<1
AUG 08...	--	--	1	--	--	--	--	--	--	--	--	<1
SEP 01...	--	2	1	--	40	--	0.20	--	<1	--	<1	<1

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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 TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 19...	--	--	--	--	--	--	--	<3	4.7	--	--
NOV 10...	--	<1	--	<1.0	38	<6	--	8	9.7	--	--
DEC 14...	--	--	--	--	--	--	--	9	5.9	--	--
JAN 11...	--	<1	--	<1.0	35	<6	--	7	5.3	--	--
FEB 22...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<1	--	2	--	--	--	20	12	4.2	<1	<1
APR 11...	--	--	--	--	--	--	--	7	6.8	--	--
MAY 18...	--	<1	--	<1.0	27	<6	--	12	7.5	--	--
JUN 14...	--	--	--	--	--	--	--	8	9.6	--	--
JUL 13...	--	<1	--	<1.0	34	<6	--	13	6.3	--	--
AUG 08...	--	--	--	--	--	--	--	5	7.0	--	--
SEP 01...	<1	--	<1	--	--	--	<10	14	7.2	1	<1

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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)
MAR 15...	1410	<0.1	--	<0.10	--	<0.010	--	<0.1	--	<0.010	--	<0.010
SEP 01...	0900	<0.1	<1	<0.10	<1.0	<0.010	<0.1	<0.1	<1.0	<0.010	0.1	<0.010
DATE		DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	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)
MAR 15...	--	<0.010	--	<0.010	--	<0.010	--	<0.010	--	<0.010	--	<0.010
SEP 01...	0.2	<0.010	<0.1	<0.010	0.1	<0.010	<0.1	<0.010	<0.1	<0.010	<0.1	<0.010
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 TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
MAR 15...	--	<0.010	--	<0.01	--	<0.01	--	<0.1	--	<1	--	--
SEP 01...	<0.1	<0.010	<0.1	<0.01	<0.1	<0.01	<0.1	<0.1	<1.00	<1	<10	--

SUSPENDED SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
NOV 10...	1100	230	2	1.2	75
JAN 11...	1047	357	1	0.96	100
MAY 18...	0900	E1120	7	--	68
JUL 13...	1230	E270	3	--	89

PAWCATUCK RIVER BASIN
01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	122	118	120	135	115	128	76	74	75	93	92	92
2	124	119	121	145	108	122	78	76	77	93	91	92
3	124	120	122	139	118	125	80	78	79	92	91	91
4	127	124	125	118	111	114	82	80	81	93	91	92
5	126	121	123	111	105	108	83	81	82	99	93	96
6	124	121	123	109	108	109	85	83	84	104	98	102
7	128	123	125	107	105	106	87	85	86	108	102	105
8	129	124	126	106	105	105	87	86	86	108	106	107
9	129	126	127	108	105	107	88	86	87	108	101	105
10	149	128	138	111	108	110	89	86	87	101	99	100
11	147	128	137	113	110	112	90	87	88	102	100	100
12	129	123	125	115	112	113	94	89	92	106	101	102
13	122	119	121	113	107	111	100	94	95	104	99	102
14	120	116	118	111	107	108	104	98	101	102	98	100
15	122	118	119	108	104	106	102	98	100	104	97	100
16	124	120	122	106	104	105	100	94	98	97	90	93
17	126	123	124	109	104	106	95	91	94	92	89	91
18	129	126	127	113	105	108	98	95	96	91	87	89
19	128	124	126	113	109	111	99	97	98	90	88	89
20	124	121	123	110	91	104	99	92	97	89	87	88
21	128	124	125	95	88	90	100	98	99	90	89	89
22	135	117	123	89	81	86	101	98	100	95	90	92
23	153	123	130	82	79	80	100	97	99	97	95	96
24	158	134	147	79	77	78	100	96	98	97	96	97
25	133	126	129	80	78	79	99	94	96	98	96	97
26	130	126	127	82	79	80	95	91	92	102	97	99
27	133	129	131	84	81	82	91	89	90	102	96	98
28	133	129	131	84	76	80	95	88	90	98	96	97
29	134	129	132	78	76	77	93	90	92	97	94	96
30	136	133	135	76	75	76	94	92	93	94	87	90
31	138	135	137	---	---	---	93	92	93	91	86	89
MONTH	158	116	127	145	75	101	104	74	91	108	86	96

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	92	90	91	99	96	98	82	81	82	79	75	77
2	94	91	93	98	95	96	81	80	81	78	71	74
3	97	94	95	95	93	94	81	80	81	70	64	67
4	95	94	95	97	94	95	82	79	81	70	64	67
5	98	94	95	98	95	97	81	80	80	75	70	73
6	103	97	99	96	93	95	81	80	80	73	71	72
7	103	98	100	98	93	95	79	77	78	84	71	73
8	106	101	104	98	97	97	78	76	78	75	71	72
9	107	94	104	99	97	98	76	75	76	72	71	71
10	108	107	107	100	98	99	75	74	75	74	72	73
11	110	107	109	99	97	98	76	74	75	74	69	72
12	110	105	108	99	97	98	77	75	76	69	63	66
13	108	106	107	98	96	97	79	76	78	66	63	64
14	111	103	107	98	95	96	81	78	79	69	65	67
15	106	101	103	97	96	96	82	79	80	72	68	70
16	101	100	101	97	96	97	81	71	77	72	71	71
17	100	95	97	97	96	97	71	66	68	74	71	72
18	99	97	98	97	94	95	69	66	67	73	71	72
19	99	98	98	100	97	98	73	69	71	80	73	74
20	99	98	98	100	97	98	74	72	73	76	74	75
21	102	94	97	98	94	96	75	72	73	77	76	76
22	92	86	88	94	92	93	76	73	75	78	75	76
23	89	85	87	94	91	92	80	75	77	79	76	77
24	85	83	84	91	90	90	79	76	77	80	78	79
25	86	82	84	90	85	88	80	78	79	81	79	80
26	88	61	85	85	82	83	84	79	81	81	80	81
27	95	87	93	82	79	81	84	81	82	83	79	81
28	97	92	94	79	78	79	85	83	83	83	80	81
29	---	---	---	81	78	80	85	83	84	-	-	-
30	---	---	---	84	80	82	85	78	82	-	-	-
31	---	---	---	84	82	83	---	---	---	-	-	-
MONTH	111	61	97	100	78	93	85	66	78	84	63	73

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	93	87	89	92	89	91	88	85	87
2	-	-	-	91	89	90	91	89	90	86	84	85
3	84	82	83	92	89	90	93	90	91	88	85	86
4	85	82	83	96	89	91	101	92	94	90	87	88
5	84	82	83	95	87	92	97	94	95	90	89	90
6	84	82	83	94	90	92	105	95	97	91	90	90
7	86	84	85	94	89	91	102	94	96	94	91	92
8	87	85	86	91	88	89	96	94	94	96	93	95
9	88	80	84	88	87	88	94	92	93	99	96	97
10	80	71	74	89	86	87	93	90	91	101	98	99
11	71	68	69	90	87	88	94	84	89	102	99	101
12	69	67	68	92	89	90	-	-	-	104	100	102
13	69	67	68	93	90	91	-	-	-	102	97	100
14	72	69	70	93	89	92	-	-	-	97	83	89
15	73	71	72	94	92	93	-	-	-	92	85	89
16	78	71	73	96	92	94	-	-	-	103	90	97
17	71	69	70	92	82	87	-	-	-	103	96	99
18	70	69	70	88	78	82	-	-	-	98	90	94
19	71	69	70	81	76	77	-	-	-	89	88	89
20	72	70	71	75	71	73	-	-	-	93	88	90
21	75	72	73	76	72	73	-	-	-	89	86	88
22	77	75	76	75	74	75	-	-	-	90	87	89
23	79	77	78	77	75	76	-	-	-	88	84	86
24	84	78	80	78	76	77	-	-	-	86	84	85
25	82	80	81	80	77	78	-	-	-	86	85	86
26	83	81	82	88	79	82	-	-	-	86	82	84
27	84	82	82	91	82	85	-	-	-	84	81	82
28	86	83	84	101	85	90	-	-	-	83	81	82
29	88	85	86	90	87	88	-	-	-	81	78	80
30	89	86	87	93	89	90	-	-	-	82	79	81
31	---	---	---	92	89	90	-	-	-	---	---	---
MONTH	89	67	78	101	71	86	105	84	93	104	78	90
YEAR	158	61	92									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.0	3.5	4.0	-	-	-	-	-	-	-	-	-
2	4.5	4.0	4.5	-	-	-	-	-	-	-	-	-
3	4.5	4.0	4.5	-	-	-	-	-	-	-	-	-
4	4.0	3.0	3.5	-	-	-	-	-	-	-	-	-
5	3.0	2.0	2.5	-	-	-	-	-	-	-	-	-
6	2.0	1.5	2.0	-	-	-	-	-	-	-	-	-
7	2.0	1.5	1.5	-	-	-	-	-	-	-	-	-
8	2.0	1.0	1.5	-	-	-	-	-	-	-	-	-
9	1.5	.5	1.0	-	-	-	-	-	-	-	-	-
10	1.0	.5	1.0	-	-	-	-	-	-	-	-	-
11	1.5	.5	1.0	-	-	-	-	-	-	-	-	-
12	2.0	.5	1.0	-	-	-	-	-	-	-	-	-
13	1.5	.5	1.0	-	-	-	-	-	-	-	-	-
14	2.5	1.5	2.0	-	-	-	-	-	-	-	-	-
15	3.0	2.5	3.0	-	-	-	-	-	-	-	-	-
16	3.0	2.5	3.0	-	-	-	-	-	-	-	-	-
17	2.5	1.5	2.0	-	-	-	-	-	-	-	-	-
18	2.0	1.0	1.5	-	-	-	-	-	-	-	-	-
19	2.0	1.0	1.5	-	-	-	-	-	-	-	-	-
20	2.0	1.0	1.5	-	-	-	-	-	-	-	-	-
21	3.5	2.0	3.0	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-
30	---	---	---	-	-	-	---	---	---	-	-	-
31	---	---	---	-	-	-	-	-	-	-	-	-
MONTH	5.0	.5	2.0	-	-	-	-	-	-	-	-	-
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-</							

POQUONOCK RIVER BASIN

39

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 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 10.00 ft below National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1982, at datum 7.98 ft higher; prior to May 4, 1986, at datum 7.20 ft higher. Datum of gage-height record is 10.00 ft below National Geodetic Vertical Datum in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request. No gage-height record: June 1 to 6.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum tidal elevation, 9.7 ft, Sept. 21, 1938 at site 2.7 mi 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 recorded, 5.21 ft, Oct. 22 ; minimum, -2.79 ft, Feb. 9.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	5.21	3.22	3.29	3.43	3.10	3.14	2.93	3.39	2.84	2.85	3.05	3.39
	Date	22	7	18	7	24	24	6	11	27	3	23	19
	Time	0545	0730	0430	0845	2330	2300	2100	0145	1600	2200	1430	1145
Minimum low tide	Elevation	-1.28	-2.61	-1.81	-2.47	-2.79	-1.42	-1.82	-1.79	-1.10	-1.07	-1.01	-1.30
	Date	27	21	26	13	9	6	7	5	22	23	18	27
	Time	1715	1415	1745	2015	1730	1445	0400	0300	0530	0645	0400	0145

NOTE.-- Time shown is eastern standard.

THAMES RIVER BASIN

01119375 WILLIMANTIC RIVER AT MERROW, CT

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

DRAINAGE AREA.--94.0 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT										
20...	0945	29	140	6.93	10.0	7.0	1.0	10.8	89	74
NOV										
15...	1020	150	87	7.20	9.5	7.0	2.2	12.4	101	800
DEC										
15...	1015	122	106	6.85	9.0	2.5	1.0	13.0	97	80
JAN										
19...	1715	104	95	6.44	4.5	4.0	1.5	13.2	101	74
MAR										
14...	1505	97	88	7.20	14.5	6.0	1.5	14.5	117	K12
APR										
12...	0800	260	70	6.57	17.0	5.0	1.0	12.8	99	51
MAY										
09...	1350	326	63	6.88	19.0	14.0	1.1	11.1	107	36
JUN										
16...	1000	680	62	6.77	18.0	14.0	2.7	10.1	98	900
JUL										
18...	1000	195	75	6.88	24.0	18.0	2.0	7.1	75	460
AUG										
09...	0850	34	112	7.00	25.0	17.5	1.2	8.2	86	58
SEP										
05...	0830	47	95	6.97	19.0	14.5	1.0	10.0	97	100

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY 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, DIS- SOLVED (TONS PER AC-FT)
OCT										
20...	52	25	6.5	2.2	--	17	17	--	89	0.12
NOV										
15...	3900	19	4.7	1.8	9.0	17	11	8.8	68	0.09
DEC										
15...	120	20	5.0	1.8	--	16	14	--	64	0.09
JAN										
19...	58	18	4.6	1.7	8.0	14	16	9.2	56	0.08
MAR										
14...	K17	18	4.4	1.6	--	13	12	--	60	0.08
APR										
12...	20	15	3.6	1.4	--	9.3	9.6	--	50	0.07
MAY										
09...	K15	14	3.3	1.3	6.0	9.0	8.4	6.6	36	0.05
JUN										
16...	2900	14	3.5	1.3	--	8.0	6.6	--	49	0.07
JUL										
18...	400	17	4.2	1.5	10	7.0	9.0	7.8	57	0.08
AUG										
09...	220	23	6.0	2.0	--	13	14	--	81	0.11
SEP										
05...	100	22	5.5	2.0	--	10	13	--	63	0.08

THAMES RIVER BASIN

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01119375 WILLIMANTIC RIVER AT MERROW, --Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 20...	6.97	96	0.790	0.010	0.800	0.020	0.68	0.70	1.5	0.010
NOV 15...	27.5	72	0.290	0.010	0.300	0.030	0.47	0.50	0.80	0.020
DEC 15...	21.1	78	0.380	0.020	0.400	0.110	0.49	0.66	1.0	0.010
JAN 19...	15.7	66	--	<0.010	0.400	0.120	0.28	0.40	0.80	0.020
MAR 14...	15.7	60	0.380	0.020	0.400	0.050	0.45	0.50	0.90	0.010
APR 12...	35.1	50	--	<0.010	0.300	0.010	0.29	0.30	0.60	0.010
MAY 09...	31.7	43	--	<0.010	0.100	0.020	0.18	0.20	0.30	0.020
JUN 16...	90.0	52	--	<0.010	0.200	0.030	0.37	0.40	0.60	0.030
JUL 18...	30.0	51	--	<0.010	0.300	0.010	0.49	0.50	0.80	0.040
AUG 09...	7.43	73	--	<0.010	0.400	<0.010	--	<0.20	--	0.030
SEP 05...	8.00	57	--	<0.010	0.500	0.040	0.46	0.50	1.0	0.020

DATE	PHOS- PHOROUS 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...	<0.010	<1	<1	7	--	<5	--	1	11	5.6
NOV 15...	0.020	<1	<1	11	250	<5	25	14	7	6.4
DEC 15...	<0.010	<1	<1	5	--	<5	--	<1	7	3.8
JAN 19...	0.010	<1	<1	5	150	<5	28	1	9	3.7
MAR 14...	<0.010	<1	<1	3	--	<5	--	<1	6	2.4
APR 12...	<0.010	<1	1	1	--	<5	--	1	8	3.4
MAY 09...	<0.010	2	<1	2	120	<1	24	1	6	3.9
JUN 16...	0.020	<1	<1	2	--	1	--	2	5	5.5
JUL 18...	0.020	<1	1	2	470	1	18	1	5	6.1
AUG 09...	0.020	<1	<1	8	--	1	--	1	13	4.2
SEP 05...	0.020	<1	<1	1	--	1	--	<1	9	3.9

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 upstream from bridge on State Highway 31, 1 mi downstream from Mill Brook, 2.4 mi southeast of South Coventry, 2.8 mi upstream from Hop River, and 6.3 mi upstream from mouth.

DRAINAGE AREA.--121 mi².

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

Water-quality records: Water years 1956-57, 1963-64, 1975-80.

REVISED RECORDS.--WSP 781: 1934 (m). WSP 851: 1935-36. WSP 1201: 1932 (M,m), 1933-34, 1937, 1939-42. WDR 79-1: 1978 (m). WDR CT-83-1: Drainage area.

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

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Natural flow of stream regulated by Staffordville Reservoir (see p. 71).

High streamflow regulated by six flood-detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft³.

AVERAGE DISCHARGE (adjusted for storage since water year 1961).--58 years, 215 ft³/s, 24.12 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft³/s, Aug. 13, gage height, 8.81 ft.; minimum, 24 ft³/s, Oct. 1, gage height, 2.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	109	332	154	157	e155	658	267	309	168	69	98
2	38	517	288	144	153	e145	466	652	323	150	63	87
3	51	286	262	e130	154	e140	386	859	324	135	58	76
4	53	184	239	e110	e140	e130	407	542	267	124	54	67
5	49	145	215	95	e130	e125	382	396	272	152	52	64
6	49	188	191	e90	e120	e120	492	827	251	276	49	64
7	48	155	187	e85	e110	e115	598	766	366	211	48	64
8	59	118	182	e105	e105	e112	631	525	571	165	47	62
9	69	101	172	135	e100	e110	583	427	656	137	43	59
10	67	90	155	123	e92	e108	476	440	1260	123	41	57
11	57	94	e135	115	e86	e105	389	1100	769	128	220	57
12	48	90	106	109	e82	123	338	1050	485	114	1070	53
13	71	117	113	159	e78	126	309	763	429	103	1820	51
14	62	268	144	138	108	123	291	583	419	102	1580	52
15	54	189	163	193	141	129	284	485	508	100	754	171
16	43	142	142	212	200	144	599	439	833	93	471	175
17	35	214	116	170	153	137	540	434	784	273	334	180
18	34	282	e110	147	120	156	419	365	597	248	263	158
19	36	205	e105	e135	e105	252	365	316	436	175	216	157
20	38	495	e100	e120	e90	204	322	281	353	141	201	187
21	39	1490	142	e110	371	224	288	256	302	476	187	446
22	152	771	151	101	713	253	266	302	274	349	171	369
23	181	458	130	108	442	205	246	281	422	233	155	286
24	116	347	163	110	294	189	230	1280	749	168	136	278
25	86	289	291	108	233	353	218	1590	498	129	118	206
26	70	256	234	112	204	338	207	913	351	114	101	253
27	60	239	175	201	e190	270	197	671	286	97	92	280
28	54	472	185	168	e175	244	188	559	242	104	89	200
29	54	603	274	143	---	236	183	429	219	94	91	164
30	53	411	211	160	---	273	282	350	197	82	162	143
31	50	---	172	173	---	705	---	320	---	75	120	---
TOTAL	1905	9325	5585	4163	5046	6049	11240	18468	13752	5039	8875	4564
MEAN	61.5	311	180	134	180	195	375	596	458	163	286	152
MAX	181	1490	332	212	713	705	658	1590	1260	476	1820	446
MIN	29	90	100	85	78	105	183	256	197	75	41	51
(+)	-1.5	+3.1	0	0	0	0	0	0	0	0	0	-6.1
MEAN+	60.0	314	180	134	180	195	375	596	458	163	286	146
CFSM+	.50	2.60	1.49	1.11	1.49	1.61	3.10	4.93	3.79	1.35	2.36	1.21
IN+	.58	2.90	1.72	1.28	1.55	1.86	3.46	5.68	4.23	1.56	2.72	1.35

CAL YR 1988 TOTAL 67952 MEAN 186 MAX 1490 MIN 16 MEAN+ 186 CFSM+ 1.54 IN+ 20.90
WTR YR 1989 TOTAL 94011 MEAN 258 MAX 1820 MIN 29 MEAN+ 258 CFSM+ 2.13 IN+ 28.89

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

+ Adjusted for change in contents.

e Estimated

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 downstream from Knowlton Brook, 700 ft upstream from bridge on State Highway 89, 1.8 mi south of Warrenville, and 3.2 mi southwest of Ashford.

DRAINAGE AREA.--28.6 mi².

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 335.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Chemical analyses available for water year 1959 (WSP 1641).

Occasional regulation from ponds upstream.

AVERAGE DISCHARGE.--49 years, 51.4 ft³/s, 24.40 in/yr.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2400	1060	6.87	June 10	0600	481	4.76
Feb. 21	2000	528	4.99	Aug. 13	1630	*2320	*8.53
May 11	0630	485	4.78				

Minimum discharge, 4.6 ft³/s, Oct. 1, gage height, 1.20 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	37	83	40	39	e43	147	66	43	23	12	24
2	5.1	178	73	36	38	e40	94	207	49	20	10	20
3	7.9	60	67	36	38	e37	95	172	54	18	9.9	17
4	7.9	36	e60	30	e35	e35	101	100	41	17	9.1	14
5	7.3	30	e53	e27	e32	e33	94	81	39	28	8.5	13
6	6.8	49	e46	23	e29	e31	164	239	39	84	7.9	12
7	6.6	36	e42	e22	e26	e30	161	148	89	44	7.4	12
8	13	28	e38	30	e24	e29	194	101	181	30	7.9	11
9	14	24	e34	35	e22	e28	147	83	220	23	6.8	11
10	9.9	22	e30	29	e20	e27	112	106	358	22	6.3	10
11	8.2	26	e28	27	e19	e26	90	349	142	25	71	9.6
12	7.2	23	e26	28	e18	e25	77	262	89	17	503	9.3
13	6.7	47	e24	44	e17	e24	69	158	86	14	1190	9.0
14	6.9	87	38	34	28	e23	63	119	81	31	499	9.9
15	6.4	49	43	62	41	35	68	98	110	49	196	45
16	6.2	38	36	52	52	36	209	93	211	27	122	29
17	6.2	89	31	40	36	33	130	91	196	162	88	37
18	6.7	92	e28	35	e30	48	94	73	131	82	67	29
19	16	56	e26	e33	e25	70	87	62	89	46	58	38
20	18	305	e24	e30	e21	45	75	54	68	36	52	48
21	17	589	34	e27	184	68	65	49	58	153	45	94
22	82	205	e32	25	223	66	60	46	58	73	39	67
23	52	119	30	24	110	47	55	40	100	47	34	52
24	32	91	45	25	67	50	51	181	125	34	28	51
25	25	76	88	25	57	153	47	133	80	27	24	33
26	22	67	52	30	e54	102	44	80	60	22	21	58
27	20	63	47	56	e51	72	42	79	50	18	19	51
28	18	167	57	41	e47	62	39	75	40	21	18	34
29	12	135	87	34	---	60	39	55	34	17	20	28
30	11	92	54	42	---	89	92	46	28	13	64	24
31	9.7	---	50	43	---	192	---	44	---	13	34	---
TOTAL	472.4	2916	1406	1065	1383	1659	2805	3490	2949	1236	3277.8	899.8
MEAN	15.2	97.2	45.4	34.4	49.4	53.5	93.5	113	98.3	39.9	106	30.0
MAX	82	589	88	62	223	192	209	349	358	162	1190	94
MIN	4.7	22	24	22	17	23	39	40	28	13	6.3	9.0
CFSM	.53	3.40	1.59	1.20	1.73	1.87	3.27	3.94	3.44	1.39	3.70	1.05
IN.	.61	3.79	1.83	1.39	1.80	2.16	3.65	4.54	3.84	1.61	4.26	1.17

CAL YR 1988 TOTAL 16785.6 MEAN 45.9 MAX 589 MIN 2.0 CFSM 1.60 IN. 21.83
WTR YR 1989 TOTAL 23559.0 MEAN 64.5 MAX 1190 MIN 4.7 CFSM 2.26 IN. 30.64

e Estimated

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 northeast of Willimantic, 1.6 mi upstream from mouth, and 3.7 mi downstream from Mansfield Hollow Dam.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--Discharge: October 1930 to September 1989 (Records not published following this water year. Streamflow records available in U.S.G.S., Connecticut office.)

Water-quality records: Water years 1954, 1958, 1968.

REVISED RECORDS.--WSP 1301: 1934-35(M), 1937(M). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 150.31 ft above 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 upstream at same datum. June 6, 1974 to Aug. 26, 1975, staff gage at present site and datum.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. City of Willimantic diverts an average of about 1.8 mgd for municipal supply from reservoir 2 mi 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. 71).

AVERAGE DISCHARGE (adjusted for storage).--59 years, 303 ft³/s, 23.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s, Sept. 21, 1938, gage height, 16.39 ft, from floodmarks, by computation of peak flow over dam 2 mi upstream; minimum, about 0.3 ft³/s, Aug. 6, 1937; minimum daily, 2.3 ft³/s, Sept. 11, 12, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft³/s, Aug. 14, gage height, 7.85 ft; minimum, 22 ft³/s, Mar. 16, gage height, 1.13 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	114	675	263	385	220	678	378	287	193	100	185
2	31	411	501	e225	370	220	867	461	290	172	90	159
3	35	522	425	e200	270	221	599	918	325	155	83	137
4	31	475	385	e170	188	221	528	1100	305	140	77	121
5	28	326	263	e150	e170	221	552	856	283	163	71	108
6	28	286	192	e145	e155	223	623	570	273	305	66	97
7	32	282	236	e140	e140	223	929	611	300	357	63	89
8	42	240	243	175	e125	221	926	916	499	288	57	83
9	37	200	244	171	e115	219	916	1060	671	224	54	78
10	39	172	e210	171	106	182	759	404	853	184	53	74
11	42	162	e190	190	e100	127	537	448	1260	169	149	71
12	42	154	e170	243	e98	127	351	1250	1060	157	566	67
13	39	165	153	241	e96	126	206	1750	698	140	1420	63
14	35	282	167	239	e94	126	384	1600	605	149	2490	66
15	34	347	203	249	150	100	369	1200	612	175	2580	91
16	33	291	e185	250	290	84	501	651	659	166	2370	119
17	33	284	e175	249	441	143	807	610	749	362	2220	149
18	32	446	e165	246	e220	184	1000	558	1240	493	1330	157
19	32	436	e155	243	e100	288	666	418	1300	453	415	164
20	32	489	e150	239	53	322	479	323	947	313	334	184
21	32	1210	157	232	344	318	454	342	496	372	316	260
22	77	1780	173	226	1080	391	420	330	395	476	282	293
23	165	1650	175	220	902	349	384	297	454	441	244	295
24	192	1440	189	217	558	294	254	423	568	313	212	357
25	167	698	309	216	311	414	211	688	549	235	186	271
26	141	259	360	166	124	455	252	770	429	189	161	250
27	119	339	284	125	124	442	260	602	353	159	143	285
28	105	457	264	126	153	602	257	517	299	166	131	251
29	96	659	355	126	---	416	245	329	257	144	128	207
30	87	771	374	230	---	359	330	277	222	125	182	178
31	80	---	305	354	---	523	---	285	---	111	216	---
TOTAL	1953	15347	8032	6437	7262	8361	15744	20942	17238	7489	16789	4909
MEAN	63.0	512	259	208	259	270	525	676	575	242	542	164
MAX	192	1780	675	354	1080	602	1000	1750	1300	493	2580	357
MIN	28	114	150	125	53	84	206	277	222	111	53	63
(+)	+3.0	+15.3	-6.4	-20.4	+7.6	+30.9	-15.5	-3.1	-2.4	-4.6	+4.6	-0.8
MEAN+	66.0	527	253	188	267	301	510	673	573	237	547	163
CFSM+	.38	3.03	1.45	1.08	1.53	1.73	2.93	3.87	3.29	1.36	3.14	.94
IN+	.44	3.38	1.67	1.24	1.59	1.99	3.27	4.46	3.67	1.57	3.62	1.05

CAL YR 1988 TOTAL 90574 MEAN 247 MAX 1780 MIN 21 MEAN+ 250 CFSM+ 1.44 IN+ 19.60
WTR YR 1989 TOTAL 130503 MEAN 358 MAX 2580 MIN 28 MEAN+ 359 CFSM+ 2.06 IN+ 27.95

+ Change in contents in Mansfield Hollow Lake, equivalent in cubic feet per second; furnished by Corps of Engineers.

+ Adjusted for change in contents.

e Estimated

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 upstream from Penn. Central Co. railroad bridge, 500 ft downstream from Potash Brook, 1.3 mi downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi southeast of Willimantic, and 17 mi upstream from mouth.

DRAINAGE AREA.--404 mi².

PERIOD OF RECORD.--Discharge: 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.

Water-quality records: Water years 1957, 1968-74.

Daily water temperature: Water year 1957.

Daily specific conductance: Water year 1957.

Daily pH: Water year 1957.

Daily iron: Water year: 1957.

REVISED RECORDS.--WSP 781: 1934(M). WSP 801: 1935. WSP 1201: 1905(M), 1920-21. WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder since Dec. 5, 1933. Datum of gage is 131.40 ft above 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 downstream at different datum.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. 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. 71).

AVERAGE DISCHARGE (adjusted for storage).--64 years, 714 ft³/s, 23.99 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,870 ft³/s, Aug. 14, gage height, 9.82 ft; minimum, 80 ft³/s, Oct. 1, gage height, 1.78 ft..

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	293	1350	612	711	e400	2100	962	e860	489	237	380
2	91	1480	1060	e520	677	e370	2000	1560	e890	436	223	328
3	105	1140	926	e460	572	e350	1490	2840	e960	397	205	285
4	105	859	847	e400	506	e330	1460	2320	e900	360	192	256
5	97	628	693	e350	449	e310	1450	1760	e850	360	180	232
6	e88	671	577	e340	e410	e295	1690	1940	e800	826	170	220
7	e100	620	607	e330	e380	e280	2210	2400	e1000	811	163	211
8	e120	499	596	e320	e350	e270	2370	2010	1620	644	154	201
9	e110	418	572	427	e325	e260	2330	1950	2070	509	144	191
10	e120	370	521	416	e300	e250	1940	1200	3430	427	138	183
11	e125	360	e450	408	e285	e240	1460	2380	3250	426	489	176
12	e125	344	381	446	e275	379	1140	3440	2210	389	2630	169
13	e115	362	367	540	e265	385	862	3490	1610	333	4850	161
14	e110	814	427	499	315	384	1030	2810	1500	350	6130	164
15	e105	734	499	608	412	361	959	2190	1580	393	4180	314
16	e100	577	e450	683	683	368	1800	1510	2230	351	3260	393
17	e100	662	e400	589	742	416	2030	1520	2420	957	2790	446
18	e100	1100	e375	538	e520	e500	1940	1320	2580	1050	1830	450
19	e100	879	e355	e500	e350	e640	1480	1060	2260	812	821	439
20	e100	1240	e340	e475	e250	e760	1180	867	1790	585	695	543
21	136	4340	407	e440	922	e750	1040	826	1110	1130	644	892
22	345	3590	481	414	2830	e890	955	829	933	1100	589	943
23	527	2630	432	424	1970	e800	867	773	1010	871	515	779
24	478	2200	490	415	1220	703	711	1770	1670	623	447	882
25	387	1370	946	425	824	1250	632	3630	1520	480	391	652
26	328	790	857	373	528	1340	653	2570	1100	402	343	679
27	288	837	635	485	e480	1110	640	1840	877	343	307	803
28	265	1320	620	441	e430	1220	608	1620	735	383	286	628
29	254	1900	961	406	---	988	586	1120	650	337	290	517
30	241	1630	858	533	---	928	905	894	568	282	532	452
31	231	---	698	726	---	1930	---	840	---	261	479	---
TOTAL	5577	34657	19178	14543	17981	19457	40518	56241	44983	17117	34304	12969
MEAN	180	1155	619	469	642	628	1351	1814	1499	552	1107	432
MAX	527	4340	1350	726	2830	1930	2370	3630	3430	1130	6130	943
MIN	81	293	340	320	250	240	586	773	568	261	138	161
(+)	+3.0	+15.3	-6.4	-20.4	+7.6	+30.9	-15.5	-3.1	-2.4	-4.6	+4.6	-0.8
MEAN†	183	1170	613	449	650	659	1336	1811	1497	547	1112	431
CFSM†	.45	2.90	1.52	1.11	1.61	1.63	3.31	4.48	3.71	1.35	2.75	1.07
IN†	.52	3.24	1.75	1.28	1.68	1.88	3.69	5.16	4.14	1.56	3.17	1.19

CAL YR 1988 TOTAL 215079 MEAN 588 MAX 4340 MIN 67 MEAN† 591 CFSM† 1.46 IN† 19.90

WTR YR 1989 TOTAL 317525 MEAN 870 MAX 6130 MIN 81 MEAN† 871 CFSM† 2.16 IN† 29.26

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

† Adjusted for change in contents.

e Estimated

THAMES RIVER BASIN

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 downstream from Jordan Brook, and 1.8 mi upstream from Cold Brook.

DRAINAGE AREA.--408 mi².

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 since August 1980.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01122500, 1.6 mi 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. Extremes for period of daily record and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 301 microsiemens May 21, 1982; minimum, 27 microsiemens Aug. 14, 1989.

WATER TEMPERATURE: Maximum, 29.0°C July 18, 19, 1982, Aug. 15, 1988; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 147 microsiemens Oct. 4; minimum, 27 microsiemens Aug. 14.

WATER TEMPERATURE: Maximum, 25.5°C Sept. 11; minimum 0.0°C on numerous days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
04...	1515	104	146	7.36	12.0	16.0	--	9.7	99	--	--
19...	1430	136	113	7.49	12.0	13.0	0.65	10.9	104	880	220
NOV											
15...	1250	734	86	7.04	15.0	8.5	2.1	12.2	103	1300	1800
DEC											
15...	1300	505	106	6.94	8.0	4.0	1.1	13.5	103	750	K13
JAN											
10...	1315	413	107	7.09	3.0	3.0	1.7	14.5	105	280	880
24...	1130	397	100	7.21	13.0	2.0	--	14.1	101	--	--
FEB											
06...	1315	405	101	6.91	3.5	1.5	--	14.5	103	--	--
21...	1230	656	101	6.88	13.0	2.5	--	14.3	105	--	--
MAR											
14...	1305	381	97	7.15	13.0	5.0	1.0	14.3	111	51	60
27...	1555	734	82	7.40	15.0	9.0	1.1	12.8	110	--	--
APR											
12...	1018	1230	78	6.89	10.0	8.0	1.0	12.6	105	100	45
24...	1025	769	84	7.25	11.5	10.0	0.80	12.2	108	--	--
MAY											
09...	1145	1960	73	7.10	19.0	14.0	1.1	11.1	106	34	K19
30...	1455	888	77	7.26	21.0	18.0	1.7	9.6	100	--	--
JUN											
14...	1445	1490	73	7.05	20.0	18.0	1.8	9.5	101	64	39
26...	1635	1040	77	7.22	26.5	23.0	2.1	8.9	104	--	--
JUL											
11...	1245	442	94	7.41	27.0	24.0	1.4	8.5	101	50	51
24...	1510	601	81	7.43	28.5	23.5	1.8	9.0	105	--	--
AUG											
09...	1110	147	116	7.26	22.0	21.5	1.0	8.9	101	100	100
21...	1100	651	83	7.18	28.0	23.0	1.6	8.5	99	--	--
SEP											
05...	1010	239	96	7.32	20.0	18.5	1.3	9.4	99	43	150
18...	0915	469	93	7.15	23.5	19.0	1.9	8.3	89	--	--

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)
OCT										
04...	0.230	0.230	0.77	1.0	1.8	0.160	0.160	0.130	0.150	--
19...	0.230	0.240	0.47	0.70	1.2	0.110	0.080	0.080	0.080	--
NOV										
15...	0.100	0.120	0.40	0.50	0.80	0.040	0.020	--	0.010	40
DEC										
15...	0.210	--	0.29	0.50	1.0	0.040	0.030	--	--	--
JAN										
10...	0.120	0.130	0.48	0.60	1.1	0.030	0.030	0.020	0.010	20
24...	0.160	0.140	1.2	1.4	1.9	0.040	0.020	0.020	0.020	--
FEB										
06...	0.210	0.200	0.39	0.60	1.0	0.060	0.040	0.030	0.030	--
21...	0.260	0.250	0.24	0.50	1.0	0.110	0.050	0.050	0.040	--
MAR										
14...	0.140	0.140	0.26	0.40	0.90	0.050	0.040	0.040	0.040	--
27...	0.080	0.090	0.52	0.60	1.0	0.030	0.020	0.010	0.030	--
APR										
12...	0.070	0.060	0.33	0.40	0.70	0.030	0.020	0.020	0.010	--
24...	0.060	0.070	0.34	0.40	0.60	0.030	0.020	<0.010	<0.010	--
MAY										
09...	0.060	0.030	0.24	0.30	0.50	0.030	0.020	0.010	<0.010	30
30...	0.090	0.080	0.31	0.40	0.70	0.050	0.030	0.020	0.020	--
JUN										
14...	0.050	0.060	0.55	0.60	0.90	0.050	<0.010	0.020	0.010	--
26...	0.070	0.070	0.43	0.50	0.70	0.021	0.030	0.010	0.030	--
JUL										
11...	0.110	0.110	0.69	0.80	1.2	0.040	0.030	0.020	0.020	30
24...	0.100	0.060	0.0	0.04	0.24	0.040	0.030	0.020	0.020	--
AUG										
09...	0.050	0.040	0.15	0.20	0.70	0.050	0.040	0.030	0.030	--
21...	0.020	0.020	0.38	0.40	0.70	0.030	0.030	<0.010	0.020	--
SEP										
05...	0.020	0.030	0.28	0.30	0.70	0.030	0.020	0.050	0.030	--
18...	0.100	0.090	0.30	0.40	0.80	0.040	0.030	0.040	0.020	--

[illegible]

THAMES RIVER BASIN

49

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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										
04...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	<1	--	--	--	--	3	4.6
NOV										
15...	28	<0.1	<10	<1	<1	<1.0	34	<6	3	6.3
DEC										
15...	--	--	--	4	--	--	--	--	6	3.9
JAN										
10...	30	<0.1	<10	<1	<1	<1.0	38	<6	3	3.7
24...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	1	--	--	--	--	<3	2.5
27...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	1	--	--	--	--	10	3.7
24...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	24	0.1	<10	7	<1	<1.0	29	<6	4	4.4
30...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	--	--	1	--	--	--	--	5	4.8
26...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	18	0.3	<10	1	<1	<1.0	40	<6	7	4.9
24...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	<1	--	--	--	--	<3	4.4
21...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	<1	--	--	--	--	<3	4.1
18...	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. STEEVE DIAM. % FINER THAN .062 MM
NOV					
15...	1250	734	2	4.0	80
JAN					
10...	1315	413	14	16	13
MAY					
09...	1145	1960	14	74	86
JUL					
11...	1245	442	11	13	59

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	133	128	131	-	-	-	-	-	-	-	-	-
2	142	126	135	-	-	-	-	-	-	-	-	-
3	140	129	134	-	-	-	-	-	-	-	-	-
4	147	137	144	-	-	-	-	-	-	-	-	-
5	139	132	134	-	-	-	-	-	-	116	100	107
6	140	133	135	-	-	-	-	-	-	118	106	112
7	136	124	132	-	-	-	-	-	-	109	94	104
8	125	107	115	-	-	-	-	-	-	114	103	108
9	117	113	115	-	-	-	-	-	-	111	104	106
10	118	110	114	-	-	-	-	-	-	116	105	110
11	124	115	118	-	-	-	-	-	-	115	101	108
12	127	106	114	-	-	-	-	-	-	128	101	109
13	117	107	112	-	-	-	-	-	-	118	104	109
14	119	112	116	-	-	-	-	-	-	117	98	110
15	120	109	115	-	-	-	-	-	-	116	89	102
16	115	105	110	-	-	-	-	-	-	108	93	103
17	105	74	88	-	-	-	-	-	-	108	90	100
18	98	78	85	-	-	-	-	-	-	104	87	97
19	118	100	111	-	-	-	-	-	-	105	92	98
20	115	109	112	-	-	-	-	-	-	105	91	99
21	108	102	104	-	-	-	-	-	-	108	104	106
22	130	103	107	-	-	-	-	-	-	108	95	103
23	-	-	-	-	-	-	-	-	-	108	96	104
24	-	-	-	-	-	-	-	-	-	111	80	101
25	-	-	-	-	-	-	-	-	-	109	95	104
26	-	-	-	-	-	-	-	-	-	133	104	113
27	-	-	-	-	-	-	-	-	-	130	113	118
28	-	-	-	-	-	-	-	-	-	127	115	120
29	-	-	-	-	-	-	-	-	-	119	105	111
30	-	-	-	-	-	-	-	-	-	115	97	107
31	-	-	-	---	---	---	-	-	-	100	88	94
MONTH	147	74	117	-	-	-	-	-	-	133	80	106
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	98	71	88	110	96	102	83	73	78	95	84	91
2	99	94	96	108	97	103	82	64	74	95	81	87
3	118	96	105	108	95	101	81	78	79	82	66	74
4	112	105	110	104	99	102	81	72	77	83	63	73
5	117	107	112	108	99	101	77	60	72	87	76	82
6	120	107	113	109	102	106	83	76	78	86	68	77
7	117	107	111	109	103	106	83	65	75	82	68	75
8	116	104	111	110	98	105	81	73	77	87	78	82
9	131	114	119	109	98	105	81	74	78	94	73	84
10	132	116	126	117	96	106	83	71	78	103	95	100
11	132	116	125	118	96	109	89	74	81	103	83	90
12	129	116	124	121	109	114	96	72	84	84	60	74
13	130	116	124	120	102	111	98	86	91	78	56	69
14	130	116	122	115	92	105	90	71	82	82	58	72
15	119	107	114	111	97	102	92	86	88	85	61	76
16	114	106	109	115	92	104	86	80	84	92	85	87
17	108	100	105	116	76	95	86	55	71	92	63	80
18	115	104	107	99	72	84	75	54	67	93	48	72
19	124	103	111	99	85	94	89	70	79	95	54	76
20	129	115	121	99	86	93	92	75	84	99	62	82
21	129	73	106	96	88	92	92	71	83	97	71	88
22	73	67	70	99	86	93	98	84	90	97	68	83
23	79	68	73	99	84	93	99	88	94	102	69	87
24	83	76	79	97	91	94	102	86	94	97	73	86
25	109	81	90	95	75	87	104	84	96	72	46	60
26	102	94	98	88	63	77	103	79	92	71	57	65
27	143	97	111	86	63	77	101	74	93	85	69	74
28	115	98	104	80	44	65	103	83	94	89	71	80
29	---	---	---	83	58	66	104	94	100	94	68	81
30	---	---	---	91	84	88	103	82	94	95	78	87
31	---	---	---	92	81	85	---	---	---	93	75	84
MONTH	143	67	107	121	44	96	104	54	84	103	46	80

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	90	70	82	104	84	95	126	111	119	91	81	88
2	90	65	79	109	79	93	125	109	118	97	81	88
3	94	64	79	104	69	87	124	106	116	102	82	92
4	94	75	84	-	-	-	124	107	116	105	88	97
5	101	72	87	-	-	-	122	108	116	108	92	101
6	93	86	91	101	82	92	124	108	118	112	94	103
7	97	90	95	94	72	83	128	110	121	114	95	105
8	92	73	81	101	83	91	133	120	126	114	97	107
9	81	75	79	107	86	96	136	107	122	114	95	106
10	78	48	64	-	-	-	125	107	118	115	93	106
11	70	49	60	112	91	101	124	80	103	121	99	109
12	76	49	62	104	69	86	83	54	67	123	106	115
13	81	70	76	-	-	-	54	40	45	125	105	116
14	82	59	73	-	-	-	39	27	33	125	112	117
15	75	72	74	107	96	102	41	32	36	119	102	112
16	75	53	65	111	99	105	44	31	38	115	103	108
17	65	51	58	108	97	100	49	36	43	102	92	95
18	64	46	55	99	89	94	61	44	51	96	90	93
19	69	44	56	97	86	91	69	61	64	95	87	91
20	75	54	64	102	96	98	71	63	67	92	86	89
21	79	69	74	106	93	99	75	63	69	92	78	84
22	80	59	72	95	86	91	78	65	72	79	71	75
23	79	62	72	96	82	89	83	66	74	81	73	78
24	79	60	70	109	89	98	88	74	81	88	79	83
25	74	55	65	111	96	105	91	79	85	88	78	84
26	75	57	67	116	97	106	94	80	87	88	81	84
27	79	58	69	119	103	111	96	81	89	89	81	85
28	90	76	81	126	104	114	100	88	93	89	78	85
29	100	80	88	126	110	118	99	91	95	90	78	85
30	103	80	92	124	111	119	95	83	87	94	82	88
31	---	---	---	126	113	120	90	76	84	---	---	---
MONTH	103	44	74	126	69	99	136	27	86	125	71	96
YEAR	147	27	93									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

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

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 upstream from bridge on Hanover Road, 0.7 mi downstream from Peck Brook, 2.3 mi northeast of Hanover, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--30.0 mi².

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

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 221.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 57.0 ft³/s, 25.80 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,450 ft³/s, June 6, 1982, gage height, 8.31 ft, from rating curve extended above 820 ft³/s; minimum 2.9 ft³/s, Aug. 16, 20, 22, 1988, minimum gage height, 1.00 ft caused by a minor and temporary regulation from an unknown source upstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0800	*682	*4.58	June 10	0730	649	4.49
May 11	1330	534	4.17	Aug. 13	--	639	4.47

Minimum discharge, 8.2 ft³/s, Oct. 2, gage height, 2.04 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	33	88	42	47	e50	e130	82	40	26	16	e30
2	8.5	199	68	39	45	e45	e100	201	49	23	15	e20
3	11	85	60	38	42	e45	e80	191	57	22	14	e15
4	13	53	56	34	e38	e45	e90	110	41	22	13	e13
5	12	44	51	e30	e35	e45	e85	86	42	25	12	e35
6	12	51	47	27	e30	e52	e180	208	37	67	12	e30
7	12	40	48	28	e30	44	e220	153	73	40	11	13
8	15	34	46	29	e25	e40	e240	102	100	31	11	13
9	20	30	42	33	e23	e37	e200	84	223	26	10	13
10	17	28	42	31	e22	34	e140	99	535	24	11	13
11	15	30	37	33	e20	33	e100	446	188	24	e220	12
12	14	28	e35	36	e18	34	e90	326	105	21	e250	12
13	14	36	32	43	e18	e33	e75	197	104	20	e350	12
14	14	92	44	38	e30	34	e70	141	96	22	e250	13
15	14	59	51	54	e50	36	e80	114	115	27	e230	34
16	14	40	e50	58	e65	38	e230	100	226	23	e70	25
17	14	56	e40	45	e50	35	e200	99	190	99	e90	42
18	18	94	35	39	34	40	e150	79	143	70	e60	31
19	18	57	33	37	e33	73	e120	66	99	46	e50	e33
20	16	168	32	36	e30	52	95	59	73	37	e45	e50
21	15	514	38	34	e50	83	80	55	60	52	e45	e40
22	48	184	37	e30	e230	83	61	51	60	40	e50	e35
23	51	115	40	28	e200	59	56	47	74	31	e35	e33
24	26	91	43	30	e100	58	53	55	72	25	e30	e30
25	22	74	77	28	e80	237	50	83	57	22	e25	e25
26	20	63	59	29	e60	136	46	56	45	19	e20	e50
27	19	58	48	53	e55	95	44	59	38	17	e15	e60
28	21	184	48	44	e50	77	41	66	34	34	e14	e40
29	20	170	76	38	---	e65	40	49	32	26	e15	e30
30	18	115	56	43	---	e65	116	40	28	20	e70	e22
31	17	---	48	51	---	e160	---	38	---	18	e60	---
TOTAL	557.1	2825	1507	1158	1510	1963	3262	3542	3036	999	2119	824
MEAN	18.0	94.2	48.6	37.4	53.9	63.3	109	114	101	32.2	68.4	27.5
MAX	51	514	88	58	230	237	240	446	535	99	350	60
MIN	8.5	28	32	27	18	33	40	38	28	17	10	12
CFSM	.60	3.14	1.62	1.25	1.80	2.11	3.62	3.81	3.37	1.07	2.28	.92
IN.	.69	3.50	1.87	1.44	1.87	2.43	4.04	4.39	3.76	1.24	2.63	1.02

CAL YR 1988 TOTAL 18830.8 MEAN 51.5 MAX 558 MIN 6.8 CFSM 1.72 IN. 23.35
WTR YR 1989 TOTAL 23302.1 MEAN 63.8 MAX 535 MIN 8.5 CFSM 2.13 IN. 28.89

e Estimated

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 upstream from bridge on State Highway 197, 0.2 mi downstream from Massachusetts-Connecticut State line, 7.8 mi upstream from French River, and at mile 46.

DRAINAGE AREA.--155 mi².

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). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Flow regulated by East Brimfield and Westville Lakes, (see p. 71), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage).--58 years, 272 ft³/s, 23.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,300 ft³/s, Aug. 19, 1955, gage height, 18.96 ft, from floodmarks, from rating curve extended above 5,100 ft³/s on basis of slope-area measurement of peak flow; minimum, about 1 ft³/s, Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4 and Oct. 29, 1956, Jan. 27, 1985(ice siphoning); minimum gage height, 1.74 ft, Aug. 20, 1940; minimum daily discharge, about 1 ft³/s, Sept. 4, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3200 ft³/s, Aug. 13; gage height, 6.90 ft. minimum, 3.5 ft³/s, Oct. 1, gage height, 1.83 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	88	478	179	189	e200	649	342	329	175	108	131
2	5.4	420	e420	e165	192	e190	745	657	345	181	74	143
3	32	329	e360	e150	188	e180	759	842	399	169	106	109
4	44	267	e320	e140	186	e165	775	834	363	153	52	124
5	39	237	e290	e130	e160	e150	585	655	329	150	57	70
6	38	260	e270	e125	e140	e140	487	745	303	253	90	82
7	36	168	e255	e120	e125	e120	716	731	364	238	46	73
8	94	202	e235	e115	e115	e115	887	963	444	209	97	67
9	81	148	e220	107	e105	e110	835	751	470	183	30	61
10	20	135	e210	139	e95	e105	896	557	711	165	46	16
11	4.5	131	e200	112	e87	93	829	682	767	179	134	52
12	6.3	108	e185	98	77	149	585	1160	670	164	1050	55
13	68	147	e175	118	e74	146	508	1170	619	151	2400	52
14	104	248	161	148	e72	136	454	1020	454	143	1880	53
15	130	239	164	173	e70	139	359	907	454	147	1290	205
16	124	215	e155	197	230	154	636	701	698	131	1240	211
17	77	263	e150	186	166	159	614	597	747	237	1160	226
18	6.3	272	e145	172	e140	176	552	506	679	305	876	217
19	35	247	e140	131	e125	253	538	456	600	268	661	225
20	48	512	e130	183	e110	273	525	356	478	187	443	297
21	43	1110	142	159	365	225	491	375	373	415	454	454
22	142	953	148	e125	598	276	397	346	392	334	465	421
23	161	766	140	e95	505	250	439	288	439	301	360	343
24	149	643	148	73	454	237	444	418	545	256	298	451
25	142	537	225	102	e380	411	371	769	526	211	258	411
26	138	446	229	130	e320	454	259	860	442	135	223	411
27	133	387	211	209	e260	401	249	763	308	172	192	349
28	96	513	206	186	e230	418	265	614	348	110	164	284
29	84	581	251	175	---	419	252	502	300	122	129	261
30	99	539	202	179	---	427	366	444	254	109	202	186
31	6.5	---	198	189	---	623	---	394	---	107	186	---
TOTAL	2192.3	11111	6763	4510	5758	7294	16467	20405	14150	6060	14771	6040
MEAN	70.7	370	218	145	206	235	549	658	472	195	476	201
MAX	161	1110	478	209	598	623	896	1170	767	415	2400	454
MIN	4.5	88	130	73	70	93	249	288	254	107	30	16
(+)	-0.1	+6.5	-3.6	0	+0.8	+14.7	-13.7	+0.7	-2.2	-2.2	+0.7	0
MEAN+	70.6	376	214	145	207	250	535	659	470	193	477	201
CFSM+	.46	2.43	1.38	.94	1.34	1.61	3.45	4.25	3.03	1.25	3.08	1.30
IN+	.53	2.71	1.59	1.08	1.40	1.86	3.85	4.90	3.38	1.44	3.55	1.45

CAL YR 1988 TOTAL 77836.3 MEAN 213 MAX 1110 MIN 4.2 MEAN+ 213 CFSM+ 1.37 IN+ 18.69
WTR YR 1989 TOTAL 115521.3 MEAN 316 MAX 2400 MIN 4.5 MEAN+ 316 CFSM+ 2.04 IN+ 27.74

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

+ Adjusted for change in contents.

e Estimated

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 microsiemens Jan. 31, 1969; minimum, 49 microsiemens 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT										
21...	0950	41	153	7.14	10.0	10.5	1.0	11.4	102	2200
NOV										
14...	1030	250	125	7.76	14.5	8.0	5.6	12.0	102	2600
DEC										
12...	1015	185	136	6.99	<-5.0	2.0	1.3	14.0	100	1400
JAN										
17...	1130	185	140	6.94	7.0	3.0	1.8	14.1	105	2000
MAR										
16...	1030	154	129	7.14	8.0	6.0	0.90	13.9	112	170
APR										
13...	0930	515	111	6.89	9.5	7.5	1.1	12.4	102	120
MAY										
10...	0905	576	100	6.71	13.5	14.0	1.6	10.0	97	68
JUN										
16...	1232	714	93	6.90	18.5	16.0	3.6	9.9	101	300
JUL										
14...	0855	138	118	6.90	23.0	22.5	2.9	7.8	92	1000
AUG										
11...	1020	154	146	7.09	15.5	20.5	1.5	7.6	84	1300
SEP										
05...	1545	83	122	7.52	19.5	19.5	1.5	9.6	104	120

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS 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 SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT										
21...	240	28	7.2	2.4	--	13	25	--	91	0.12
NOV										
14...	3900	26	7.1	2.1	10	18	22	6.1	86	0.12
DEC										
12...	750	25	6.6	2.1	--	15	21	--	72	0.10
JAN										
17...	1400	26	6.9	2.1	10	15	27	7.9	93	0.13
MAR										
16...	150	25	6.7	2.0	--	13	22	--	75	0.10
APR										
13...	56	21	5.4	1.8	--	10	19	--	74	0.10
MAY										
10...	59	19	4.9	1.6	8.0	10	16	4.5	63	0.08
JUN										
16...	1300	19	5.4	1.4	--	9.0	14	--	59	0.08
JUL										
14...	190	25	6.7	1.9	14	8.0	19	5.3	73	0.10
AUG										
11...	2000	29	8.2	2.1	--	8.0	22	--	97	0.13
SEP										
05...	50	25	7.0	1.9	--	8.0	20	--	71	0.10

THAMES RIVER BASIN

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 21...	10.1	92	--	<0.010	0.500	0.010	0.49	0.50	1.0	0.260
NOV 14...	58.0	99	0.280	0.020	0.300	0.030	0.77	0.80	1.1	0.090
DEC 12...	36.0	78	0.290	0.010	0.300	0.050	0.35	0.40	0.70	0.070
JAN 17...	46.4	87	--	<0.010	0.200	0.150	0.35	0.50	0.70	0.070
MAR 16...	31.2	81	0.280	0.020	0.300	0.030	0.27	0.30	0.60	0.080
APR 13...	103	74	--	<0.010	0.200	0.020	0.18	0.20	0.40	0.030
MAY 10...	98.0	67	--	<0.010	0.100	0.020	0.38	0.40	0.50	0.050
JUN 16...	114	67	--	<0.010	0.300	0.030	0.37	0.40	0.70	0.040
JUL 14...	27.2	74	0.380	0.020	0.400	0.020	0.48	0.50	0.90	0.110
AUG 11...	40.3	--	0.650	0.050	0.700	0.170	1.0	1.2	1.9	0.320
SEP 05...	15.9	72	--	<0.010	0.500	0.040	0.36	0.40	0.90	0.110

DATE	PHOS- PHOROUS 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...	0.230	<1	<1	1	--	<5	--	<1	5	4.5
NOV 14...	0.080	<1	<1	3	180	<5	35	4	8	7.1
DEC 12...	0.050	<1	1	2	--	<5	--	<1	11	4.7
JAN 17...	0.060	<1	<1	1	160	<5	46	1	11	4.7
MAR 16...	0.070	<1	<1	1	--	<5	--	1	8	2.9
APR 13...	0.020	<1	<1	<1	--	<5	--	1	4	3.9
MAY 10...	0.030	<1	1	1	150	1	35	3	7	4.4
JUN 16...	0.010	<1	1	1	--	1	--	1	<3	6.4
JUL 14...	0.100	<1	2	2	830	2	52	1	8	5.8
AUG 11...	0.240	<1	<1	1	--	2	--	1	5	5.8
SEP 05...	0.090	<1	<1	<1	--	<1	--	<1	9	5.6

01124151 QUINEBAUG RIVER AT WEST THOMPSON, CT

LOCATION.--Lat 41°56'29", long 71°53'58", Windham County, Hydrologic Unit 01100001, on left bank 350 ft downstream from concrete V-notch weir below flood-control dam at West Thompson.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--June 1966 to September 1989 (Records not published following this year. Streamflow records available in U.S.G.S., Connecticut office.)

GAGE.--Water-stage recorder. Datum of gage is 289.341 ft above National Geodetic Vertical Datum of 1929. Prior to May 4, 1984, at site 350 ft upstream and at datum 1.66 ft higher.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by East Brimfield, Westville, and West Thompson Lakes (see p. 71), and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--23 years, 310 ft³/s, 24.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,690 ft³/s, Jan. 29, 1979, gage height, 6.99 ft; minimum, no flow part of many days 1970, 1972, 1975, 1976, 1979, 1981 (regulation); minimum daily, 7.5 ft³/s, Sept. 2, 1975.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft³/s, Aug. 14, gage height, 5.81 ft; minimum, 11.0 ft³/s, regulated, Oct. 13, gage height, 0.18 ft; minimum daily, 15 ft³/s, Oct. 3, regulated.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	39	495	197	194	251	681	333	362	228	110	180
2	21	239	464	e175	196	214	882	299	338	190	122	153
3	15	338	399	e150	195	208	952	725	373	182	91	139
4	26	282	374	e130	194	198	924	1140	374	170	106	126
5	34	247	324	e119	184	190	552	878	343	163	71	111
6	35	235	283	e110	171	e175	311	610	314	228	74	95
7	34	214	271	e105	e155	e155	729	639	337	259	93	91
8	45	178	261	e100	e135	143	1100	1180	434	233	77	82
9	89	166	251	e95	e120	e135	1100	1370	404	206	90	84
10	61	142	235	124	e110	e130	1040	469	497	182	60	51
11	30	135	216	134	e100	e125	964	376	624	125	80	39
12	16	121	178	112	e96	e120	739	1120	930	172	193	55
13	18	121	e165	112	e93	161	569	1430	943	159	1130	53
14	58	199	e160	132	e90	156	449	1340	690	149	2150	52
15	93	226	e170	167	128	154	417	1250	481	209	2230	108
16	115	217	e160	203	156	161	494	1120	629	219	1960	219
17	107	224	e150	200	221	169	730	618	707	230	1680	228
18	58	267	e140	189	e150	177	740	512	725	315	1180	233
19	26	254	e135	166	e140	229	595	506	708	295	654	229
20	33	306	e130	157	e130	279	573	469	652	274	510	279
21	37	1000	150	e145	199	253	522	383	406	326	423	464
22	63	1380	157	128	393	279	447	369	384	400	505	357
23	131	963	154	e120	411	275	402	333	448	362	413	398
24	139	687	154	e112	485	259	450	331	481	295	338	476
25	136	587	197	107	639	343	400	592	500	251	286	431
26	131	474	231	116	617	438	329	915	558	199	249	419
27	127	397	221	185	443	469	256	865	384	166	219	396
28	122	451	212	201	296	433	269	693	326	171	190	323
29	79	597	248	189	---	435	267	479	325	135	163	284
30	103	551	242	185	---	364	334	459	283	125	191	249
31	64	---	209	193	---	365	---	415	---	143	206	---
TOTAL	2093	11237	7136	4558	6441	7443	18217	22218	14960	6761	15844	6404
MEAN	67.5	375	230	147	230	240	607	717	499	218	511	213
MAX	139	1380	495	203	639	469	1100	1430	943	400	2230	476
MIN	15	39	130	95	90	120	256	299	283	125	60	39
(+)	-0.1	+15.8	-8.3	0	+2.5	+30.4	-28.7	+1.0	-4.2	-5.7	+2.7	+0.5
MEAN†	67.4	391	222	147	232	270	578	718	495	212	514	214
CFSM†	.39	2.27	1.29	.85	1.35	1.57	3.36	4.17	2.88	1.23	2.99	1.24
IN†	.45	2.53	1.49	.98	1.41	1.81	3.75	4.81	3.21	1.42	3.45	1.38

CAL YR 1988 TOTAL 81662 MEAN 223 MAX 1380 MIN 15 MEAN† 223 CFSM† 1.30 IN† 17.66
WTR YR 1989 TOTAL 123312 MEAN 338 MAX 2230 MIN 15 MEAN† 338 CFSM† 1.97 IN† 26.69

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

‡ Adjusted for change in contents.

e Estimated

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 northeast of Mechanicsville, and 0.7 mi upstream from Quinebaug River.

DRAINAGE AREA.--107 mi².

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 upstream from the French River on the Quinebaug River, and 01125500, 2.7 mi 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT										
21...	1115	33	227	7.19	11.0	7.0	0.70	9.0	74	2000
NOV										
14...	1225	146	197	7.29	18.0	10.0	1.5	11.6	103	1300
DEC										
12...	1400	152	130	7.05	<-5.0	3.0	1.3	14.2	104	800
JAN										
17...	1310	91	171	7.18	7.0	4.0	1.7	12.8	98	95
MAR										
16...	1205	83	154	7.44	9.5	6.5	0.80	12.8	104	130
APR										
13...	1245	353	133	7.16	10.0	9.5	1.0	11.8	102	K5
MAY										
10...	1035	459	111	6.96	12.0	15.0	1.5	9.9	98	31
JUN										
16...	1400	374	121	6.99	19.5	17.0	2.5	9.6	100	71
JUL										
14...	1105	58	137	7.23	23.5	23.0	1.4	8.5	101	110
AUG										
11...	1130	81	182	7.30	14.5	20.0	2.8	7.6	83	970
SEP										
05...	1425	79	135	7.73	20.0	21.0	1.0	9.7	108	K10

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT										
21...	520	39	12	2.1	--	26	29	--	136	0.18
NOV										
14...	270	29	9.0	1.7	21	30	22	5.8	119	0.16
DEC										
12...	200	25	7.6	1.4	--	18	18	--	71	0.10
JAN										
17...	62	28	8.9	1.5	17	21	26	6.4	107	0.14
MAR										
16...	K12	26	8.1	1.5	--	19	21	--	87	0.12
APR										
13...	21	22	6.6	1.3	--	14	20	--	84	0.11
MAY										
10...	39	20	6.1	1.1	10	12	16	3.7	69	0.09
JUN										
16...	320	21	6.6	1.1	--	13	15	--	73	0.10
JUL										
14...	150	27	8.4	1.4	16	13	19	4.8	90	0.12
AUG										
11...	5500	26	8.1	1.4	--	24	20	--	120	0.16
SEP										
05...	25	24	7.5	1.3	--	15	18	--	80	0.11

THAMES RIVER BASIN

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01125150 FRENCH RIVER AT MECHANICSVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 21...	12.1	136	2.29	0.010	2.30	<0.010	--	0.50	2.8	0.380
NOV 14...	46.9	123	--	<0.010	0.400	0.070	0.73	0.80	1.2	0.100
DEC 12...	29.1	91	--	<0.010	0.400	0.160	0.54	0.70	1.1	0.060
JAN 17...	26.3	107	0.550	0.050	0.600	0.490	0.51	1.0	1.6	0.060
MAR 16...	19.5	96	0.440	0.060	0.500	0.380	0.32	0.70	1.2	0.080
APR 13...	80.1	84	0.280	0.020	0.300	0.140	0.26	0.40	0.70	0.040
MAY 10...	85.5	72	0.180	0.020	0.200	0.070	0.53	0.60	0.80	0.070
JUN 16...	73.7	90	0.450	0.050	0.500	0.090	0.41	0.50	1.0	0.050
JUL 14...	14.1	96	--	<0.010	0.700	0.020	0.58	0.60	1.3	0.140
AUG 11...	26.2	--	--	<0.010	0.500	0.030	0.57	0.60	1.1	0.150
SEP 05...	17.1	81	--	<0.010	0.600	0.020	0.38	0.40	1.0	0.070

DATE	PHOS- PHOROUS 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...	0.350	<1	2	5	--	<5	--	<1	7	4.6
NOV 14...	0.090	<1	2	4	170	<5	32	<1	14	7.6
DEC 12...	0.030	<1	1	2	--	<5	--	<1	9	5.8
JAN 17...	0.040	<1	<1	2	110	<5	44	<1	15	5.2
MAR 16...	0.060	<1	1	5	--	<5	--	<1	11	5.3
APR 13...	0.020	<1	1	1	--	<5	--	1	8	5.1
MAY 10...	0.040	<1	2	3	120	2	30	1	6	6.8
JUN 16...	0.040	<1	1	3	--	1	--	1	9	6.6
JUL 14...	0.120	<1	2	4	350	1	20	1	9	6.1
AUG 11...	0.110	<1	<1	<1	--	1	--	1	9	5.9
SEP 05...	0.050	<1	<1	6	--	1	--	<1	<3	5.4

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 downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft downstream from railroad bridge and at mile 6.1.

DRAINAGE AREA.--713 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 781: Drainage area. WSP 1301: 1919-26(M). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 63.07 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, (see p. 71), by Lake Chaubunagungamaug, estimated usable capacity 207,000,000 ft³ and by smaller reservoirs upstream.

AVERAGE DISCHARGE (adjusted for storage).--71 years, 1,286 ft³/s, 24.50 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,670 ft³/s, May 13, gage height, 11.46 ft; minimum, 74 ft³/s, Oct. 12, gage height, 3.89 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	206	2380	1060	1020	e1350	2570	2190	1320	889	540	950
2	224	1570	2090	810	1010	e1200	2800	2430	1290	741	330	920
3	127	1470	1880	1110	957	e1120	2730	3500	1380	698	400	650
4	134	1470	1670	866	e890	e1080	2840	3670	1340	660	395	660
5	138	511	1540	688	e820	e1030	2700	3380	1290	709	380	560
6	232	1630	1390	e670	775	e980	2570	3500	1190	937	290	525
7	126	1020	1360	e650	e720	e940	3310	3750	1320	1300	285	525
8	259	563	1300	653	e660	e900	3900	3250	1770	976	350	500
9	224	563	1220	652	e620	e860	4350	3670	2470	868	393	525
10	301	744	e1100	710	581	e820	3780	3240	4610	796	337	490
11	198	736	e1000	856	618	e790	3310	3890	4250	725	604	340
12	195	551	899	715	601	e760	2900	5120	3260	634	1710	320
13	215	663	937	813	539	e760	2430	5360	3090	625	3040	410
14	121	1210	1060	764	693	862	2130	4690	2810	613	4920	370
15	221	1090	1160	857	812	857	1800	4090	2440	806	5260	520
16	212	1010	1010	1270	1020	894	2650	3650	2820	878	4700	580
17	262	1030	908	1060	e960	919	3430	3210	3290	1590	4140	920
18	243	1330	e860	1010	e880	939	3360	2510	3150	1850	3490	1090
19	251	1250	832	938	786	1320	2940	2230	2790	1590	2510	1040
20	207	1540	934	918	726	1330	2630	2010	2400	1400	2010	1370
21	128	4450	906	857	1220	1440	2390	1780	1940	1460	1540	1360
22	368	4810	730	751	3080	1570	2140	1600	1680	1670	1430	1530
23	458	3780	1020	e690	2960	1410	1850	1480	1670	1510	1370	1280
24	874	2710	928	664	2340	1280	1750	1390	1690	1340	1250	1550
25	370	2130	1180	654	2020	2140	1680	1660	1640	790	1010	1440
26	654	1880	1250	675	e1850	2440	1540	1900	1570	850	960	1450
27	369	1700	1140	991	e1650	2160	1390	2150	1430	690	870	1560
28	530	2430	1080	1040	e1450	1930	1300	2080	1140	660	570	1390
29	402	3030	1350	953	---	1820	1260	1770	1090	610	720	1300
30	194	2760	1300	969	---	1740	1890	1510	949	500	800	1020
31	792	---	1160	1060	---	2250	---	1430	---	540	990	---
TOTAL	9158	49837	37574	26374	32258	39891	76320	88090	63079	29905	47594	27145
MEAN	295	1661	1212	851	1152	1287	2544	2842	2103	965	1535	905
MAX	874	4810	2380	1270	3080	2440	4350	5360	4610	1850	5260	1560
MIN	121	206	730	650	539	760	1260	1390	949	500	285	320
(+)	+0.7	+19.9	-10.9	-0.4	+3.8	+38.9	-35.0	-2.2	-4.3	-6.3	+3.1	+1.4
MEAN†	296	1681	1201	851	1156	1326	2509	2840	2099	959	1538	906
CFSM†	.42	2.36	1.68	1.19	1.62	1.86	3.52	3.98	2.94	1.34	2.16	1.27
IN†	.48	2.63	1.94	1.37	1.69	2.14	3.93	4.59	3.28	1.54	2.49	1.42

CAL YR 1988 TOTAL 393016 MEAN 1074 MAX 5800 MIN 75 MEAN† 1074 CFSM† 1.51 IN† 20.49
WTR YR 1989 TOTAL 527225 MEAN 1444 MAX 5360 MIN 121 MEAN† 1445 CFSM† 2.03 IN† 27.50

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

† Adjusted for change in contents.

e Estimated

THAMES RIVER BASIN

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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 the 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 and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 309 microsiemens July 23, 1975; minimum, 42 microsiemens 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, 222 microsiemens Oct. 5; minimum, 66 microsiemens June 11.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 24, Sept. 11,12; minimum, 0.5°C on numerous days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
04...	1620	134	150	10.00	11.5	16.5	--	11.1	114	--	--	--
19...	1300	115	147	7.93	17.0	13.5	2.3	11.7	113	2300	1700	--
NOV												
14...	1550	1780	115	7.12	15.0	9.0	1.7	11.9	102	75	140	100
DEC												
14...	1425	1600	122	6.86	5.0	3.0	1.1	13.7	102	380	240	--
JAN												
10...	1050	665	122	6.84	0.0	3.0	1.6	14.5	105	300	120	380
24...	1020	442	176	6.91	8.0	1.5	--	14.7	104	--	--	--
FEB												
06...	1210	960	123	6.98	-1.0	2.0	--	13.8	99	--	--	--
21...	1050	1150	119	6.35	10.0	1.5	--	14.7	105	--	--	--
MAR												
14...	1100	1260	118	7.10	10.0	4.0	2.0	14.0	106	K16	K19	--
27...	1655	2000	99	7.08	13.5	8.5	2.3	12.0	101	--	--	--
APR												
11...	1305	3270	92	6.67	10.5	8.0	1.7	12.0	100	55	70	--
24...	0920	1770	99	6.98	9.5	11.0	2.2	11.6	105	--	--	--
MAY												
09...	0915	3900	87	6.93	17.5	14.0	1.5	10.0	96	58	60	60
30...	1400	1470	95	7.12	23.0	19.0	3.2	9.1	97	--	--	--
JUN												
14...	1315	2980	86	6.86	23.0	18.0	2.9	8.7	91	120	81	--
26...	1740	1540	100	7.00	26.5	24.0	2.9	8.0	95	--	--	--
JUL												
11...	0945	172	103	6.94	26.0	24.5	1.7	7.8	94	54	96	96
24...	1625	1450	94	7.16	28.0	24.5	2.2	8.0	95	--	--	--
AUG												
03...	1300	395	117	7.50	24.5	27.5	1.5	8.5	108	51	500	--
21...	0955	1780	90	6.82	31.0	23.5	2.3	7.8	92	--	--	--
SEP												
05...	1230	550	109	8.12	22.5	22.0	2.9	10.6	120	44	100	--
18...	1050	890	118	7.29	20.0	20.0	2.6	8.0	87	--	--	--

THAMES RIVER BASIN
01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HC03)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
19...	34	9.8	2.2	--	--	--	--	--	15	17	--	--
NOV												
14...	26	7.4	1.8	9.9	2.2	16	13	14	17	15	0.10	5.5
DEC												
14...	26	7.5	1.8	--	--	--	--	--	17	14	--	--
JAN												
10...	27	7.8	1.8	10	2.1	15	12	13	14	14	0.10	8.5
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
06...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	26	7.3	1.8	--	--	--	--	--	15	14	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	20	5.8	1.4	--	--	--	--	--	9.8	13	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	19	5.6	1.3	8.2	1.6	12	10	9.0	10	11	0.10	4.5
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	21	6.0	1.4	--	--	--	--	--	9.0	11	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	25	7.2	1.6	8.3	1.9	17	14	15	10	12	0.10	5.0
24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	30	9.0	1.8	--	--	--	--	--	11	13	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	26	7.7	1.7	--	--	--	--	--	12	13	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, 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)
OCT												
04...	--	--	--	--	--	--	<0.100	<0.100	0.040	0.040	1.6	1.6
19...	89	0.12	27.6	100	0.490	0.010	0.500	0.540	0.110	0.130	0.59	0.70
NOV												
14...	77	0.10	370	77	--	<0.010	0.400	0.410	0.020	0.040	0.58	0.60
DEC												
14...	65	0.09	281	83	0.590	0.010	0.600	--	0.080	--	0.62	0.70
JAN												
10...	85	0.12	153	83	0.770	0.030	0.800	0.740	0.200	0.200	0.30	0.50
24...	--	--	--	--	--	--	0.700	0.730	0.200	0.180	0.40	0.60
FEB												
06...	--	--	--	--	--	--	0.700	0.610	0.100	0.100	1.0	1.1
21...	--	--	--	--	--	--	0.700	0.740	0.160	0.150	0.84	1.0
MAR												
14...	73	0.10	248	78	0.680	0.020	0.700	0.680	0.090	0.100	0.21	0.30
27...	--	--	--	--	--	--	0.500	0.460	0.050	0.050	0.35	0.40
APR												
11...	68	0.09	600	68	--	<0.010	0.400	0.350	0.040	0.030	0.26	0.30
24...	--	--	--	--	--	--	0.300	0.360	0.040	0.040	0.26	0.30
MAY												
09...	53	0.07	558	101	0.290	0.010	0.300	0.280	0.050	0.030	0.25	0.30
30...	--	--	--	--	--	--	0.400	0.450	0.070	0.070	0.43	0.50
JUN												
14...	61	0.08	491	84	0.380	0.020	0.400	0.390	0.060	0.070	0.64	0.70
26...	--	--	--	--	--	--	0.500	0.520	0.050	0.050	0.45	0.50
JUL												
11...	61	0.08	28.3	74	0.490	0.010	0.500	0.440	0.160	0.140	0.64	0.80
24...	--	--	--	--	--	--	0.400	0.360	0.070	0.030	0.23	0.30
AUG												
08...	78	0.11	83.2	81	0.480	0.020	0.500	0.460	0.060	0.050	0.34	0.40
21...	--	--	--	--	--	--	0.300	0.230	0.060	0.050	0.54	0.60
SEP												
05...	64	0.09	95.0	65	0.190	0.010	0.200	0.270	0.050	0.070	0.65	0.70
18...	--	--	--	--	--	--	0.500	0.450	0.060	0.060	0.44	0.50

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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)	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, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	1	<1	--	--	--	--	<10	<3	6.1
NOV											
14...	0.1	<10	3	5	<1	<1.0	41	<6	<10	<3	7.0
DEC											
14...	--	--	2	3	--	--	--	--	<10	10	5.6
JAN											
10...	0.1	<10	<1	1	<1	<1.0	42	<6	<10	11	4.6
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
06...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	1	2	--	--	--	--	<10	8	4.3
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	7	1	--	--	--	--	20	<3	4.9
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	0.2	<10	2	1	<1	<1.0	33	<6	20	6	5.2
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	3	1	--	--	--	--	10	5	6.4
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	0.3	<10	2	1	<1	<1.0	43	<6	<10	13	6.0
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	2	<1	--	--	--	--	10	6	6.4
21...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	4	2	--	--	--	--	<10	<3	4.1
18...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	DIS- CHARGE, SEDIMENT, SUS- PENDED (MG/L)	SEDIMENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
14...	1550	1780	6	29	78
JAN					
10...	1050	665	0	0.0	100
MAY					
09...	0915	3900	9	95	93
JUL					
11...	0945	172	11	5.1	69

THAMES RIVER BASIN

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01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	220	219	219	-	-	-	-	-	-	-	-	-
2	219	210	214	-	-	-	-	-	-	-	-	-
3	215	212	214	-	-	-	-	-	-	-	-	-
4	218	213	215	-	-	-	-	-	-	-	-	-
5	222	212	219	-	-	-	-	-	-	111	94	100
6	210	173	188	-	-	-	-	-	-	111	94	102
7	173	163	167	-	-	-	-	-	-	111	94	103
8	167	162	164	-	-	-	-	-	-	118	95	106
9	162	150	155	-	-	-	-	-	-	117	90	107
10	154	150	152	-	-	-	-	-	-	117	110	114
11	153	148	150	-	-	-	-	-	-	117	109	112
12	153	146	151	-	-	-	-	-	-	123	104	114
13	151	149	150	-	-	-	-	-	-	130	103	119
14	151	147	149	-	-	-	-	-	-	130	119	124
15	148	145	147	-	-	-	-	-	-	130	109	121
16	148	146	147	-	-	-	-	-	-	134	120	126
17	149	146	147	-	-	-	-	-	-	126	112	119
18	148	143	145	-	-	-	-	-	-	119	108	115
19	145	142	143	-	-	-	-	-	-	119	107	113
20	142	138	140	-	-	-	-	-	-	119	107	113
21	-	-	-	-	-	-	-	-	-	119	107	113
22	-	-	-	-	-	-	-	-	-	119	103	111
23	-	-	-	-	-	-	-	-	-	123	108	116
24	-	-	-	-	-	-	-	-	-	126	118	121
25	-	-	-	-	-	-	-	-	-	127	118	122
26	152	122	137	-	-	-	-	-	-	128	116	122
27	173	141	153	-	-	-	-	-	-	122	115	118
28	175	136	165	-	-	-	-	-	-	121	115	118
29	141	114	124	-	-	-	-	-	-	122	115	119
30	-	-	-	-	-	-	-	-	-	121	112	116
31	-	-	-	---	---	---	-	-	-	122	108	115
MONTH	222	114	165	-	-	-	-	-	-	134	90	115

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	125	112	120	104	96	102	107	104	106	106	95	103
2	125	115	119	104	94	101	105	98	103	97	94	96
3	125	116	120	105	95	103	106	103	105	96	85	90
4	121	111	118	112	102	106	106	103	105	96	85	91
5	120	110	116	111	102	105	105	99	103	97	95	96
6	130	111	120	109	101	104	104	97	99	96	88	94
7	127	117	124	104	99	102	99	95	97	89	85	86
8	127	124	126	104	101	102	97	94	96	89	86	88
9	130	124	127	104	100	102	97	86	94	94	86	89
10	131	126	128	111	94	102	95	89	90	94	84	91
11	134	126	129	109	101	104	90	88	89	87	77	84
12	131	125	128	111	100	104	90	89	89	77	74	75
13	133	125	128	110	101	106	91	89	90	87	76	83
14	130	124	128	113	101	108	98	88	94	86	83	84
15	130	125	126	113	110	111	97	88	94	85	83	84
16	126	119	123	114	109	112	92	89	91	86	83	85
17	125	115	123	114	111	113	90	82	88	85	84	84
18	124	119	122	119	109	112	89	81	88	91	84	87
19	128	118	124	114	110	112	93	89	91	93	90	92
20	129	123	127	114	111	113	93	90	91	94	91	93
21	128	112	122	112	105	110	92	89	91	94	91	92
22	126	95	111	105	104	105	99	91	93	101	91	96
23	97	94	95	105	102	103	99	93	94	102	91	98
24	95	92	94	111	102	104	99	93	96	103	92	99
25	98	94	96	106	103	104	100	91	97	103	99	101
26	102	93	99	105	101	102	102	92	99	102	89	99
27	104	101	103	106	102	104	104	95	102	102	99	100
28	105	93	102	116	104	111	106	100	103	102	97	101
29	---	---	---	117	114	115	114	103	108	98	88	92
30	---	---	---	122	115	117	111	104	106	91	88	90
31	---	---	---	117	107	114	---	---	---	91	88	89
MONTH	134	92	118	122	94	107	114	81	96	106	74	91

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	95	87	89	98	89	95	125	112	114	103	98	101
2	95	87	89	101	91	98	124	116	121	103	99	101
3	98	89	95	101	97	99	121	115	116	103	100	102
4	97	86	93	101	98	100	123	113	118	108	100	102
5	99	88	95	110	98	103	126	121	124	-	-	-
6	99	94	97	106	98	100	127	121	124	-	-	-
7	98	94	96	106	97	99	127	123	126	110	102	107
8	98	95	97	99	96	97	126	117	121	130	102	114
9	97	83	88	100	96	98	127	124	125	133	120	126
10	83	67	75	105	97	99	136	123	130	131	119	123
11	77	66	71	106	97	100	136	115	130	153	122	136
12	77	72	76	108	97	103	115	104	112	173	150	160
13	76	73	75	110	99	106	104	90	97	182	170	174
14	81	74	78	109	99	103	91	74	83	198	179	187
15	81	78	79	107	98	102	-	-	-	198	178	185
16	81	73	79	107	100	105	-	-	-	178	140	156
17	78	71	73	106	92	99	82	79	81	139	120	129
18	73	71	72	98	80	88	83	82	82	122	119	120
19	77	71	73	82	79	81	83	80	82	119	108	114
20	79	70	76	89	81	86	83	80	81	110	99	106
21	80	77	79	93	88	91	83	80	82	107	99	102
22	82	79	80	93	91	92	90	80	84	102	99	101
23	87	79	81	93	90	92	93	81	89	102	99	100
24	87	79	81	93	90	92	93	90	92	102	99	100
25	88	79	85	93	90	92	93	90	92	102	98	101
26	89	82	86	103	91	99	100	91	96	100	97	99
27	91	87	89	109	101	103	102	98	101	99	97	98
28	91	79	89	104	102	103	103	100	101	97	90	93
29	91	88	90	114	103	110	103	100	102	90	88	89
30	97	89	93	115	111	113	103	100	102	91	88	89
31	---	---	---	115	112	113	103	100	102	---	---	---
MONTH	99	66	84	115	79	99	136	74	104	198	88	118
YEAR	222	66	108									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

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

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. downstream from stone-arch highway bridge, 1 mi downstream from Susquetonscut Brook, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--89.3 mi².

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

Water-quality records: Water years 1958, 1968-80.

Daily Suspended-sediment discharge: Water years 1975-80.

REVISED RECORDS.--WSP 1051: 1931-36. WSP 1301: 1934(M). WDR CT-78-1: 1970-77 (P). WDR CT-82-1: 1979-80 (P).

WDR CT-83-1: Drainage area, 1979 (P), 1982 (P).

GAGE.--Water-stage recorder. Datum of gage is 94.46 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Low flow regulated by mills upstream. Several measurements of water temperature were made during the year. Release from Gardner Lake Oct. 11-22, 1988, by Connecticut Department of Environmental Protection, for winter lake management.

AVERAGE DISCHARGE.--59 years, 165 ft³/s, 25.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s, Sept. 21, 1938, gage height, 14.66 ft, from floodmark, by computation of flow over two dams 2.4 mi upstream and 3.0 mi downstream from station, respectively; maximum gage height, 14.88 ft, June 6, 1982; minimum discharge, 2.2 ft³/s, Aug. 30, 1963; minimum gage height, 0.41 ft, Oct. 13, 1930; minimum daily discharge, 2.3 ft³/s, Aug. 30, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 2	0200	1070	5.55	May 11	0700	1390	6.18
21	0430	1830	7.06	June 10	0700	*2320	*7.93
May 2	1630	1040	5.47	Aug. 13	1000	1160	5.73

Minimum discharge, 5.3 ft³/s, Sept. 13, 14, gage height, 0.88 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	137	251	120	139	e120	420	308	165	80	25	81
2	8.0	760	214	112	127	e115	287	665	202	68	23	58
3	9.6	353	190	112	e120	e110	249	773	263	58	21	46
4	11	181	171	99	e110	e105	276	401	234	53	19	37
5	11	129	154	e92	e98	e100	268	276	293	62	19	106
6	11	152	144	e83	e90	e110	468	619	223	241	17	84
7	11	137	144	73	e82	e94	534	581	267	210	18	31
8	22	109	141	85	e76	e88	594	353	394	226	17	25
9	34	96	133	111	e70	e82	500	268	1520	147	14	12
10	25	86	e120	94	e62	e78	367	277	1890	103	12	9.4
11	21	90	e110	82	e56	e76	275	1160	976	138	197	55
12	54	80	e100	85	e50	e85	232	1020	522	105	742	21
13	54	106	87	140	e48	e82	206	661	470	68	1000	5.6
14	52	252	120	111	105	89	190	463	485	62	599	12
15	51	185	144	190	157	101	197	356	452	87	311	26
16	50	129	141	198	196	117	639	330	742	80	208	21
17	49	163	e105	146	e130	111	540	456	751	218	260	135
18	50	238	e95	122	e95	134	350	393	627	313	192	100
19	48	177	e90	115	e80	246	284	295	454	209	146	105
20	47	548	87	111	e71	182	245	257	322	144	130	142
21	45	1460	119	92	238	262	211	229	265	123	129	129
22	158	639	135	82	785	267	190	208	242	102	138	103
23	154	320	119	68	508	185	171	185	217	83	105	92
24	99	240	160	70	277	179	159	249	220	69	85	85
25	77	214	258	71	e170	576	148	457	206	55	71	69
26	64	198	201	94	e150	448	140	319	176	48	59	143
27	55	195	142	222	e135	278	134	270	151	42	42	172
28	52	679	148	167	e125	221	127	289	134	41	39	113
29	51	635	225	135	---	196	124	226	119	38	43	79
30	49	340	174	137	---	195	344	180	97	31	197	62
31	47	---	139	155	---	430	---	162	---	28	173	---
TOTAL	1477.4	9028	4561	3574	4350	5462	8869	12686	13079	3332	5051	2159.0
MEAN	+35.7	301	147	115	155	176	296	409	436	107	163	72.0
MAX	158	1460	258	222	785	576	639	1160	1890	313	1000	172
MIN	7.8	80	87	68	48	76	124	162	97	28	12	5.6
CFSM	+4.40	3.37	1.65	1.29	1.74	1.97	3.31	4.58	4.88	1.20	1.82	.81
IN	+4.46	3.76	1.90	1.49	1.81	2.28	3.69	5.28	5.45	1.39	2.10	.90

CAL YR 1988 TOTAL 47150.3 MEAN+ 128 MAX 1620 MIN 5.3 CFSM+ 1.43 IN+ 19.48
WTR YR 1989 TOTAL 73628.4 MEAN+ 201 MAX 1890 MIN 5.6 CFSM+ 2.25 IN+ 30.51

+ Adjusted for release from Gardner Lake, (October only affected month).
e Estimated

THAMES RIVER BASIN

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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 east of Mohegan, 2.9 mi downstream from Norwich, 0.9 mi upstream from Poquetanuck Cove, and 1.2 mi downstream from Trading Cove.

DRAINAGE AREA.--1,382 mi².

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

REMARKS.--Stream tidal and salinity affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	SALINITY (PPT)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
10...	1345	1.00	7080	7.20	4.0	12.0	9.5	1.3	13.2	119	340	100
10...	1400	20.0	40500	7.74	26.5	12.0	12.0	1.2	8.4	92	37	44
JAN												
19...	1315	1.00	5190	7.40	3.0	8.0	5.0	1.7	12.8	102	620	440
19...	1320	20.0	36600	7.94	23.0	8.0	4.5	1.3	13.0	117	96	210
MAR												
15...	1050	1.00	4310	7.69	2.0	10.0	5.5	1.0	12.7	102	K220	450
15...	1100	20.0	26500	8.00	17.0	10.0	3.0	1.0	13.1	108	K5	380
MAY												
15...	1120	1.00	1760	7.27	1.0	24.5	15.0	2.1	10.6	105	120	25
15...	1125	20.0	37000	7.95	23.0	24.5	9.0	3.2	9.9	99	K9	30
JUL												
13...	0910	1.00	4640	7.41	3.0	22.0	23.5	2.0	7.9	95	140	120
13...	0915	20.0	42200	7.50	27.0	22.0	18.5	7.7	3.7	47	44	50
SEP												
01...	1230	1.00	6780	7.40	4.0	26.0	21.5	1.2	5.7	66	170	22
01...	1240	20.0	37600	7.71	24.0	26.0	21.0	1.6	0.1	1	K13	K8
DATE	HARDNESS TOTAL (MG/L AS CAC03)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CAC03	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	ALKALINITY LAB (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)
NOV												
10...	730	710	46	150	27	320	2200	6.3	4140	5.60	4480	0.070
10...	4200	4100	230	880	99	2200	16000	1.8	28400	38.6	31700	0.280
JAN												
19...	560	530	41	110	22	240	1600	8.0	3020	4.10	3180	--
19...	4300	4200	270	870	93	2200	16000	2.4	28100	38.2	31300	--
MAR												
15...	410	--	31	81	--	190	1300	--	2430	3.30	2490	0.660
15...	2500	--	170	510	--	1300	8600	--	15100	20.5	16100	0.360
MAY												
15...	170	160	15	33	12	77	500	5.6	960	1.30	1020	--
15...	4900	4800	330	980	97	2300	15000	1.1	29100	39.6	30900	--
JUL												
13...	470	450	37	92	25	200	1300	6.3	2550	3.50	2890	0.390
13...	5000	4900	340	1000	97	2300	16000	6.2	29600	40.3	33100	--
SEP												
01...	650	--	45	130	--	290	2000	--	3790	5.10	4270	0.490
01...	4900	--	300	1000	--	2200	15000	--	28600	38.9	29200	--

THAMES RIVER BASIN

01127701 THAMES RIVER NEAR MOHEGAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
NOV												
10...	0.030	0.100	0.440	0.26	0.70	0.80	0.070	0.070	<1	<1	<1	<1
10...	0.020	0.300	0.230	0.17	0.40	0.70	0.050	0.050	1	<1	<1	<1
JAN												
19...	<0.010	0.600	0.190	0.21	0.40	1.0	0.060	0.040	<1	<1	1	<1
19...	<0.010	0.200	0.320	0.08	0.40	0.60	0.050	0.040	<1	<1	1	<1
MAR												
15...	0.040	0.700	0.130	0.47	0.60	1.3	0.040	0.040	<1	1	<1	<1
15...	0.040	0.400	0.200	0.20	0.40	0.80	0.050	0.050	<1	1	2	<1
MAY												
15...	<0.010	0.300	0.050	0.15	0.20	0.50	0.040	0.020	<1	1	1	<1
15...	0.010	<0.100	0.250	--	<0.20	--	0.080	0.040	<4	<10	<10	<10
JUL												
13...	0.010	0.400	0.070	0.33	0.40	0.80	0.030	0.010	<1	<1	<1	<1
13...	0.020	<0.100	0.330	0.17	0.50	--	0.060	0.040	<4	<2	8	<5
SEP												
01...	0.010	0.500	0.110	0.49	0.60	1.1	0.050	0.030	<1	<1	<1	<1
01...	0.020	<0.100	0.320	0.28	0.60	--	0.070	0.060	<4	<4	11	<5

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	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											
10...	4	2	150	<5	<5	40	0.20	1	20	<10	6.4
10...	5	1	160	<5	<5	80	<0.10	1	<10	<20	3.2
JAN											
19...	1	1	60	<5	<5	20	<0.10	<1	<10	10	4.8
19...	1	1	150	<5	<5	40	<0.10	1	30	20	3.0
MAR											
15...	3	2	--	<1	<5	--	0.10	1	20	10	3.5
15...	2	1	--	<1	<5	--	<0.10	2	20	20	2.7
MAY											
15...	3	2	100	1	<1	25	0.20	2	<10	7	4.1
15...	3	1	180	<4	1	80	0.30	4	30	40	3.1
JUL											
13...	1	1	170	<1	<1	20	0.10	<1	<10	<10	5.3
13...	3	<2	190	<4	<2	70	0.20	<2	60	20	5.7
SEP											
01...	6	2	--	<1	<1	--	<0.10	1	20	<10	5.4
01...	12	4	--	<4	<4	--	0.20	4	30	20	3.1

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. Usable capacity, 75,500,000 ft³, based on reservoir survey by Connecticut Board of Fisheries and Game. Records available, September 1960 to current year. Dam was built 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 northeast of Willimantic. Drainage area, 160 mi². Usable capacity, 2,260,000,000 ft³, including 90,000,000 ft³ 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 southeast of Fiskdale, 1.2 mi east of East Brimfield. Drainage area, 67.5 mi². Usable capacity, 1,400,000,000 ft³, including 83,000,000 ft³ storage in recreation and conservation. 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 west of Southbridge. Drainage area, 99.1 mi². Usable capacity, 484,000,000 ft³, including 4,400,000 ft³ 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. Usable capacity, 1,170,000,000 ft³, including 52,000,000 ft³ 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. Usable capacity, 577,000,000 ft³. 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 41°54'29", Worcester County, Mass. , Hydrologic Unit 01100001, on Little River in French River basin, at Buffumville, 2.2 mi west of Oxford. Drainage area, 26.5 mi². Usable capacity, 555,000,000 ft³, including 61,000,000 ft³ 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 1988 TO SEPTEMBER 1989

	01119259	01121500	01123350	01123550
	STAFFORDVILLE	MANSFIELD	EAST	WESTVILLE
Date	RESERVOIR	HOLLOW	BRIMFIELD	LAKE
Sept. 30, 1988.....	71.5	114.8	102.7	5.0
Oct. 31.....	67.5	122.8	102.7	4.8
Nov. 30.....	75.5	162.5	117.6	6.8
Dec. 31.....	75.5	145.3	109.3	5.4
Jan. 31, 1989.....	75.5	90.6	109.3	5.4
Feb. 28.....	75.5	109.0	111.0	5.6
Mar. 31.....	75.5	191.8	135.7	20.4
Apr. 30.....	75.5	151.6	114.3	6.2
May 31.....	75.5	143.2	116.0	6.3
June 30.....	75.5	137.0	111.0	5.7
July 31.....	75.5	124.7	106.0	4.9
Aug. 31.....	75.5	137.0	107.7	5.2
Sept. 30.....	59.6	134.9	107.7	5.3
	01124150	01124300	01124400	
	WEST	HODGES		
	THOMPSON	VILLAGE		
Date	LAKE	RESERVOIR	BUFFUMVILLE	
Sept. 30, 1988.....	56.5	0.4	62.7	
Oct. 31.....	56.5	.6	64.5	
Nov. 30.....	80.5	2.4	73.4	
Dec. 31.....	68.0	.8	68.0	
Jan. 31, 1989.....	68.0	.7	67.1	
Feb. 28.....	72.2	1.2	69.7	
Mar. 31.....	114.2	9.8	83.9	
Apr. 30.....	75.3	7.9	69.7	
May 31.....	76.3	1.0	68.0	
June 30.....	71.1	1.5	67.1	
July 31.....	61.7	.7	66.2	
Aug. 31.....	66.9	.8	67.1	
Sept. 30.....	68.0	1.4	68.8	

01172003 CONNECTICUT RIVER BELOW HOLYOKE DAM AT HOLYOKE, MA

LOCATION.--Lat 42°12'36", Long 72°35'44", Hampden County, Hydrologic Unit 01080201, on right bank, 2,200 ft downstream from dam of Holyoke Water Power Co. in Holyoke, MA. and at mile 86.

DRAINAGE AREA.--8,309 mi².

PERIOD OF RECORD.--December 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 43.276 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity, about 47 billion ft³. Records do not include water diverted around gage by Holyoke Water Power Company for industrial use.

AVERAGE DISCHARGE.--5 years, 10,570 ft³/s, adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s, June 1, 1984, gage height, 25.62 ft; minimum daily, 519 ft³/s, Sept. 30, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1854, 244,000 ft³/s, March 20, 1936, gage height, 35.0 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,200 ft³/s, May 7, gage height, 16.52 ft; minimum daily, 2,000 ft³/s, Aug. 4, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4010	6380	14100	5390	4510	e4200	30700	13300	11900	5980	3840	2880
2	3040	11500	13000	5680	5880	e4000	27900	17700	13800	4830	4440	3570
3	3580	14900	11500	6410	6830	e3800	24200	50400	14000	6110	4710	2170
4	4370	16600	10000	5640	8390	e3700	26500	54400	13400	5580	2000	3140
5	4230	13000	9800	e4500	3500	e3600	30300	43800	12500	7840	3070	5810
6	3730	12300	8680	e3700	4890	e3500	48700	50900	11800	7510	7970	4980
7	3120	18200	7410	e3100	e4700	e3450	72500	76800	15300	10400	12300	4620
8	3670	19200	8620	2480	e4500	e3400	76600	73800	18100	8620	9510	4120
9	3070	16500	7950	4290	e4300	e3350	65100	57900	22500	4420	9320	3650
10	2160	13800	7970	6560	e4100	3320	51800	43300	33700	5400	8760	2080
11	4470	10500	5870	e6000	e3900	3510	40200	40700	38200	9250	5690	3730
12	4260	8730	e5000	e5300	e3800	3780	29300	44700	29700	9290	11900	3820
13	5680	8670	e4200	e4600	3650	3730	22700	51700	26600	8900	15300	3410
14	5900	10900	3470	3930	5650	5120	20900	49500	24300	6090	19800	2840
15	4090	13400	4870	5110	4640	5710	16700	40800	22000	4150	23300	5990
16	2260	14500	5320	5300	5030	8670	18000	31100	22300	2820	16500	5370
17	2420	14100	e4000	6100	3590	13500	25000	26500	26100	5220	10000	4700
18	4210	11100	2870	5560	3010	11800	28600	22400	24400	7360	9090	5870
19	6080	10200	4520	6650	3420	8760	28800	16300	20500	5110	5070	8040
20	5250	11300	5770	7090	2270	8660	31500	15900	17500	5730	5030	8470
21	6170	22400	6630	4790	6530	7330	29700	15200	14300	6830	6780	11300
22	7800	31500	6840	3540	13700	6720	24100	13800	12200	5850	7490	11900
23	11300	28000	8710	e3400	11000	8730	20600	13400	11900	4860	5100	12200
24	7720	23300	6170	e3300	8990	8140	17500	17000	13100	3330	4610	10600
25	8300	17200	3990	e3200	e7200	9570	14400	22600	10700	3700	6230	8790
26	9370	14200	5610	e3100	e5800	7590	13800	17800	9030	4220	4780	10600
27	8550	11400	8400	6050	e5000	11400	12800	13400	9220	4620	2000	11200
28	8140	11900	7590	4680	e4300	14900	11600	13600	8360	3810	2140	10700
29	5970	14600	7410	3480	---	31500	11500	14500	7770	4030	4220	7460
30	2690	16500	8450	3880	---	44700	14200	13100	8690	3630	5960	6600
31	3760	---	6980	4740	---	36800	---	12700	---	3920	6580	---
TOTAL	159370	446780	221700	147550	153080	296940	886200	989000	523870	179410	243490	190610
MEAN	5141	14890	7152	4760	5467	9579	29540	31900	17460	5787	7855	6354
MAX	11300	31500	14100	7090	13700	44700	76600	76800	38200	10400	23300	12200
MIN	2160	6380	2870	2480	2270	3320	11500	12700	7770	2820	2000	2080

CAL YR 1988 TOTAL 3534480 MEAN 9657 MAX 66600 MIN 2000
WTR YR 1989 TOTAL 4438000 MEAN 12160 MAX 76800 MIN 2000

e Estimated

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

LOCATION (REVISED).--Lat 41°59'14", Long 72°36'21", Hartford County, Hydrologic Unit 01080205, on right bank just upstream from Enfield Dam, 1.1 mi downstream from Thompsonville, 3.1 mi downstream from Massachusetts-Connecticut State line, and at mile 63.5.

DRAINAGE AREA.--9,660 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 741: 1932. WDR CT-77-1: 1976. WDR CT-83-1: Drainage area, 1982.

GAGE.--Water-stage recorders on river. Datum of gage is 38.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. 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.

AVERAGE DISCHARGE.--61 years, 16,510 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 282,000 ft³/s, Mar. 20, 1936, gage height, 16.6 ft, from floodmarks; minimum daily, 968 ft³/s, Oct. 20, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93,900 ft³/s, May 7, gage height, 5.80 ft; minimum daily, 2,870 ft³/s, Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4960	7700	26300	10900	6660	7790	41500	20900	16200	8220	7030	5460
2	4570	19700	24500	10000	6900	7450	40800	28000	17800	6760	7040	5730
3	3650	23400	23300	e9500	8260	e7200	35100	59400	18700	7110	7960	4450
4	4710	23800	21600	e8900	10700	6870	37800	69200	18400	6700	6040	3990
5	4820	20000	19800	e8400	7480	6620	40700	58000	18100	8440	5070	6630
6	4040	19900	e18500	e7900	5720	6920	56400	62900	17300	9050	9970	6980
7	3910	24400	16700	e7400	e5600	e6600	83200	87900	21100	11400	18900	6350
8	4220	27300	17200	6900	e5400	e6200	89600	88700	24200	10600	18400	5450
9	3550	23500	16200	6840	e5200	e5800	79700	73900	32400	6370	17400	5050
10	2870	21600	e14500	9910	e5100	5340	65000	57300	45400	6460	17600	3990
11	3880	18300	e12500	e9500	e5000	5340	53500	54900	53500	13200	12200	3900
12	4120	15600	10800	e8700	e4900	5810	41400	59000	42900	16200	21300	5500
13	6000	14900	e10200	e8100	e4800	5140	34000	65200	37200	15300	28200	4050
14	e6400	17800	e9800	7590	7910	6670	30800	63600	35100	11400	31500	4690
15	e4500	20600	e10800	9670	8270	6930	26800	54100	32300	7560	36700	7500
16	e3000	21300	e10200	8610	9920	10100	28600	43700	34100	5430	28100	7860
17	e3200	21300	e9500	9710	8250	18200	34900	38100	36500	6320	18700	7620
18	4380	19300	e9100	8440	6610	19000	40300	31500	36600	9410	16400	7050
19	5700	17400	e8800	10100	5730	15300	39000	23500	29500	7580	10700	8780
20	5620	19500	11300	10100	4860	13800	42300	21200	26600	7830	8050	9910
21	6080	32500	10300	e8000	7990	13100	40600	20000	22200	9840	8700	13800
22	9350	43600	10500	e6200	22400	10600	35900	18600	18000	9290	9470	18500
23	14000	41700	12700	e5900	22300	12000	31100	17000	17600	8530	9640	19300
24	11100	36800	e11000	e5700	16600	10600	29000	28100	19200	5950	6830	16300
25	11200	30100	8900	e5600	e14000	14600	24400	37900	15900	6040	8090	10400
26	12500	26100	10100	e5500	e11000	12400	23000	31400	13900	6360	7790	12900
27	10700	23500	12600	7350	e9300	16800	22100	21300	13800	6460	5000	15100
28	9960	24400	13100	6960	e8500	24100	20700	19000	14500	6470	4110	13700
29	8320	26700	12000	6190	---	38500	20600	18700	11000	6970	5830	9590
30	4440	28400	13000	5230	---	55700	20000	18000	10800	7130	7280	9510
31	3830	---	12700	6270	---	50300	---	17800	---	7050	8860	---
TOTAL	189580	711100	428500	246070	245360	431780	1208800	1308800	750800	261430	408860	260040
MEAN	6115	23700	13820	7938	8763	13930	40290	42220	25030	8433	13190	8668
MAX	14000	43600	26300	10900	22400	55700	89600	88700	53500	16200	36700	19300
MIN	2870	7700	8800	5230	4800	5140	20000	17000	10800	5430	4110	3900

CAL YR 1988 TOTAL 5229980 MEAN 14290 MAX 73300 MIN 2870
WTR YR 1989 TOTAL 6451120 MEAN 17670 MAX 89600 MIN 2870

e Estimated

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 and current year are for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 246 microsiemens Jan. 26, 1984; minimum, 46 microsiemens 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, 229 microsiemens Oct. 10; minimum, 65 microsiemens Nov. 22, May 7, 8.

WATER TEMPERATURES: Maximum, 29.0°C July 27, 28; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
04...	1250	4200	151	7.44	16.0	18.0	--	8.4	89	--	--	--
17...	1300	3100	143	7.54	20.0	14.0	0.70	10.4	100	520	K13	--
NOV												
09...	1000	23000	84	7.24	13.5	9.5	1.5	11.4	99	160	190	220
DEC												
19...	1515	9100	122	7.24	3.0	2.5	1.4	13.6	99	2900	98	--
JAN												
09...	1540	7050	144	7.28	1.0	3.0	1.5	13.5	99	700	850	980
24...	1715	6500	159	7.44	11.5	2.5	--	13.8	100	--	--	--
FEB												
06...	1840	6600	168	7.22	0.0	1.5	--	13.2	95	--	--	--
21...	1805	11200	147	7.48	12.0	3.0	--	13.5	101	--	--	--
MAR												
13...	1315	4700	142	7.25	9.5	3.0	0.75	14.2	104	120	69	--
27...	1320	18500	124	7.23	17.0	7.0	4.6	12.5	102	--	--	--
APR												
10...	1215	64000	74	7.08	11.5	5.0	12	13.4	104	45	200	--
24...	1555	28200	82	7.31	14.5	9.5	3.0	11.7	103	--	--	--
MAY												
08...	1305	87400	69	7.04	15.0	10.5	16	11.5	103	870	320	920
30...	1645	17700	114	7.28	22.0	18.0	3.0	9.1	95	--	--	--
JUN												
13...	1000	37000	66	7.13	15.5	17.5	4.6	9.1	95	250	300	--
26...	1320	13900	107	7.14	29.0	23.0	1.7	8.3	97	--	--	--
JUL												
10...	1245	5200	128	7.00	29.5	25.0	1.5	8.2	100	36	81	45
24...	1315	5110	125	7.49	29.5	25.0	0.80	8.2	98	--	--	--
AUG												
07...	1340	20600	137	7.49	25.0	27.5	0.85	7.8	100	68	200	--
23...	1155	10800	127	7.21	29.0	25.0	1.5	7.6	93	--	--	--
SEP												
06...	0900	7360	142	7.48	22.0	21.5	0.94	8.2	92	2000	25	--
20...	1325	9500	143	7.38	22.0	20.0	1.7	7.5	82	--	--	--

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3)	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)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	41	13	2.1	--	--	--	--	--	15	12	--	--
NOV												
09...	30	9.0	1.7	5.1	1.4	14	11	19	12	7.8	0.10	5.6
DEC												
19...	35	11	1.8	--	--	--	--	--	15	10	--	--
JAN												
09...	42	13	2.2	13	1.8	31	25	29	15	18	0.10	7.3
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
06...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	35	11	1.9	--	--	--	--	--	14	16	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
10...	23	7.2	1.3	--	--	--	--	--	11	7.8	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	21	6.5	1.2	4.3	1.1	15	12	14	8.0	6.3	0.10	4.8
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	25	7.9	1.3	--	--	--	--	--	8.0	7.4	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	40	13	1.9	8.4	1.5	31	25	28	10	12	0.10	5.3
24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	43	14	2.0	--	--	--	--	--	7.0	12	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
06...	43	14	2.0	--	--	--	--	--	13	13	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, 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)
OCT												
04...	--	--	--	--	--	--	0.400	0.370	0.310	0.300	0.39	0.70
17...	90	0.12	753	112	0.380	0.020	0.400	0.360	0.280	0.250	0.52	0.80
NOV												
09...	59	0.08	3660	66	0.190	0.010	0.200	0.230	0.070	0.060	0.33	0.40
DEC												
19...	66	0.09	1620	78	--	<0.010	0.300	--	0.220	--	0.28	0.50
JAN												
09...	90	0.12	1710	97	--	<0.010	0.500	0.540	0.300	0.300	0.30	0.60
24...	--	--	--	--	--	--	0.600	0.550	0.400	0.390	0.40	0.80
FEB												
06...	--	--	--	--	--	--	0.500	0.490	0.440	0.430	0.56	1.0
21...	--	--	--	--	--	--	0.600	0.610	0.340	0.330	0.76	1.1
MAR												
13...	79	0.11	1000	80	0.580	0.020	0.600	0.590	0.240	0.230	0.26	0.50
27...	--	--	--	--	--	--	0.500	0.470	0.160	0.160	0.24	0.40
APR												
10...	56	0.08	9680	130	--	<0.010	0.400	0.360	0.070	0.080	0.33	0.40
24...	--	--	--	--	--	--	0.300	0.350	0.080	0.080	0.52	0.60
MAY												
08...	48	0.06	11300	90	--	<0.010	0.300	0.280	0.040	0.040	0.26	0.30
30...	--	--	--	--	--	--	0.400	0.380	0.200	0.210	0.30	0.50
JUN												
13...	57	0.08	5690	90	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	0.300	0.410	0.120	0.130	0.38	0.50
JUL												
10...	73	0.10	1020	--	0.380	0.020	0.400	0.420	0.170	0.180	0.43	0.60
24...	--	--	--	--	--	--	0.400	0.380	0.160	0.120	0.24	0.40
AUG												
07...	78	0.11	4340	86	0.390	0.010	0.400	0.410	0.080	0.080	0.32	0.40
23...	--	--	--	--	--	--	0.400	0.360	0.220	0.220	0.38	0.60
SEP												
06...	78	0.11	1550	90	0.370	0.030	0.400	0.470	0.380	0.400	0.52	0.90
20...	--	--	--	--	--	--	0.400	0.450	0.240	0.230	0.46	0.70

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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, TOTAL (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)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT											
04...	1.1	0.070	0.070	0.070	0.070	--	--	--	--	--	--
17...	1.2	0.090	0.070	0.070	0.060	--	--	--	--	<1	<1
NOV											
09...	0.60	0.040	0.030	--	<0.010	30	<1	11	<0.5	<1	<1
DEC											
19...	0.80	0.080	0.070	--	--	--	--	--	--	<1	<1
JAN											
09...	1.1	0.070	0.060	--	0.050	30	<1	16	<0.5	<1	<1
24...	1.4	0.090	0.060	0.060	0.050	--	--	--	--	--	--
FEB											
06...	1.5	0.110	0.080	0.080	0.070	--	--	--	--	--	--
21...	1.7	0.220	0.080	0.080	0.070	--	--	--	--	--	--
MAR											
13...	1.1	0.100	0.080	0.080	0.080	--	--	--	--	1	<1
27...	0.90	0.070	0.030	0.020	0.010	--	--	--	--	--	--
APR											
10...	0.80	0.090	0.010	0.020	<0.010	--	--	--	--	1	1
24...	0.90	0.030	0.020	<0.010	<0.010	--	--	--	--	--	--
MAY											
08...	0.60	0.020	0.010	<0.010	0.010	50	<1	9	1	<1	2
30...	0.90	0.060	0.030	0.020	0.020	--	--	--	--	--	--
JUN											
13...	--	--	--	--	--	--	--	--	--	<1	<1
26...	0.80	0.030	0.020	0.010	<0.010	--	--	--	--	--	--
JUL											
10...	1.0	0.040	0.030	0.040	0.020	20	<1	16	<0.5	<1	1
24...	0.80	0.090	0.080	0.060	0.060	--	--	--	--	--	--
AUG											
07...	0.80	0.050	0.050	0.030	0.030	--	--	--	--	<1	<1
23...	1.0	0.070	0.050	0.050	0.050	--	--	--	--	--	--
SEP											
06...	1.3	0.050	0.060	0.060	0.050	--	--	--	--	<1	<1
20...	1.1	0.090	0.050	0.050	0.040	--	--	--	--	--	--

[illegible]

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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)	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, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	2	<1	--	--	--	--	<10	9	4.8
NOV 09...	0.3	<10	3	2	<1	<1.0	43	<6	<10	5	4.8
DEC 19...	--	--	4	<1	--	--	--	--	<10	6	3.8
JAN 09...	<0.1	<10	1	<1	<1	<1.0	69	<6	<10	15	4.1
24...	--	--	--	--	--	--	--	--	--	--	--
FEB 06...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	7	9	--	--	--	--	20	7	3.8
27...	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	4	1	--	--	--	--	10	6	6.1
24...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	0.1	<10	6	2	<1	<1.0	32	<6	10	4	5.2
30...	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	--	--	1	1	--	--	--	--	<10	<3	5.0
26...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	0.5	<10	3	1	<1	<1.0	69	<6	<10	6	3.6
24...	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	--	--	1	1	--	--	--	--	<10	<3	3.5
23...	--	--	--	--	--	--	--	--	--	--	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 17...	1300	<0.4	<0.4	3.2	<0.4	2.7	<0.4	0.05	0.21
APR 10...	1215	<0.4	1.0	1.7	1.8	1.6	1.7	0.04	0.05

SUSPENDED SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDIMENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDIMENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	1000	23000	8	497	96
JAN 09...	1540	7050	1	19	100
MAY 08...	1305	87400	75	17700	88
JUL 10...	1245	5200	10	140	80

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	145	132	137	134	123	129	88	82	85	121	117	119
2	176	141	156	134	98	118	91	87	89	121	117	120
3	194	160	180	96	82	88	92	90	90	120	114	117
4	205	179	198	90	80	83	94	91	92	117	113	116
5	182	168	175	91	88	90	98	94	96	123	115	119
6	170	148	161	93	79	89	147	98	107	123	117	120
7	173	152	161	78	73	75	138	102	114	128	120	126
8	160	142	149	81	73	77	106	100	103	138	125	128
9	172	147	158	86	81	84	103	99	101	150	129	142
10	229	127	156	90	85	87	103	101	102	152	134	140
11	206	146	176	90	88	89	109	101	105	134	117	125
12	165	143	148	89	87	88	138	109	113	134	111	126
13	149	144	146	98	88	90	113	111	112	162	131	141
14	144	137	142	99	84	93	115	110	112	179	165	173
15	147	142	144	83	80	82	126	113	121	181	169	176
16	144	141	142	84	82	83	187	122	144	186	175	183
17	145	140	142	90	84	86	122	117	119	174	151	159
18	157	146	150	90	87	88	119	117	118	154	149	151
19	154	142	147	91	86	88	125	119	122	157	153	155
20	143	137	138	92	87	90	127	122	125	153	147	150
21	145	139	142	86	66	74	130	122	127	150	146	148
22	148	142	145	69	65	66	132	128	130	158	145	152
23	142	124	132	78	69	73	128	124	126	161	145	154
24	123	118	120	81	78	80	135	124	128	160	153	157
25	120	112	116	124	81	92	149	136	143	154	151	153
26	116	112	114	140	82	99	149	129	139	163	153	156
27	121	117	119	114	81	88	130	121	125	196	152	177
28	125	121	123	91	84	89	124	121	122	194	166	185
29	124	119	122	90	81	84	137	124	130	165	156	159
30	123	119	122	83	80	82	124	117	121	161	153	158
31	128	122	124	---	---	---	117	114	115	164	160	162
MONTH	229	112	145	140	65	87	187	82	115	196	111	147
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	164	153	157	148	132	136	92	83	87	105	96	100
2	156	151	154	135	130	133	90	83	86	101	90	96
3	158	150	153	138	131	135	88	83	84	87	80	82
4	170	152	160	141	136	138	91	87	89	79	73	75
5	153	146	150	148	138	144	92	89	90	78	75	76
6	175	146	160	152	148	150	96	90	94	81	68	76
7	176	164	170	151	148	150	90	75	83	72	65	69
8	167	156	161	148	122	138	74	71	73	70	65	67
9	156	151	153	142	138	140	72	71	71	67	66	67
10	157	149	153	148	140	142	75	71	73	75	67	70
11	151	146	148	154	147	150	82	75	78	76	66	72
12	151	145	147	155	148	151	84	81	82	72	66	70
13	153	147	149	157	146	153	86	81	83	69	66	68
14	162	152	156	156	152	153	87	86	86	71	68	70
15	169	159	164	157	151	154	93	87	89	72	70	71
16	171	164	168	156	143	151	97	90	95	77	70	74
17	166	158	162	153	138	144	89	83	85	77	72	75
18	164	158	161	153	137	146	85	83	84	79	72	75
19	161	159	160	152	135	143	88	86	87	85	79	81
20	166	160	162	136	130	133	90	87	89	89	86	87
21	168	151	161	165	129	138	90	87	88	95	89	91
22	157	128	140	166	148	156	90	88	89	96	93	94
23	128	116	121	151	136	142	88	85	86	106	95	100
24	123	117	119	138	131	135	84	78	80	107	84	92
25	125	115	121	151	138	144	87	81	84	88	81	85
26	129	125	127	141	134	137	93	88	90	84	79	81
27	135	128	132	138	123	131	97	93	94	104	85	94
28	154	136	148	123	110	116	100	96	98	103	100	102
29	---	---	---	110	98	103	101	98	100	107	103	105
30	---	---	---	97	86	93	107	101	105	111	104	107
31	---	---	---	88	82	84	---	---	---	114	110	112
MONTH	176	115	151	166	82	138	107	71	87	114	65	83

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	118	113	115	130	121	125	148	144	146	139	134	137
2	116	111	113	130	123	128	151	143	148	146	139	143
3	114	110	112	138	128	131	154	150	152	147	140	144
4	114	107	110	137	130	133	157	152	155	152	142	146
5	109	106	107	136	131	134	162	155	158	152	146	149
6	116	109	112	142	136	139	168	158	164	148	138	143
7	116	113	114	142	132	135	162	152	157	147	140	144
8	115	108	112	135	126	131	165	154	159	149	145	147
9	107	91	102	134	131	132	169	165	167	155	149	152
10	93	84	88	139	131	136	168	162	165	156	149	152
11	83	72	77	144	132	139	160	142	152	154	148	151
12	73	71	72	132	126	129	152	127	135	159	155	157
13	85	71	79	130	123	126	130	118	123	155	144	150
14	87	84	85	136	128	131	116	103	107	163	129	152
15	89	85	87	138	133	135	103	95	99	160	123	148
16	89	76	82	140	133	137	95	90	93	151	139	144
17	78	75	77	148	132	141	108	96	101	147	140	143
18	86	75	81	147	136	140	119	109	113	144	139	142
19	92	86	88	139	132	136	121	119	120	150	143	145
20	98	86	90	141	134	137	125	122	123	152	145	148
21	106	98	102	153	138	147	128	121	125	151	144	148
22	114	106	109	141	132	134	132	126	128	148	141	145
23	113	109	111	136	132	134	131	127	129	146	140	143
24	115	93	106	139	135	136	134	129	131	145	138	141
25	109	99	104	143	136	141	140	125	131	147	136	142
26	117	108	110	146	141	143	134	124	128	142	135	138
27	122	115	118	147	139	144	130	121	125	139	123	129
28	123	116	119	145	138	142	134	127	130	127	122	124
29	130	120	124	148	144	146	135	121	132	130	128	129
30	130	123	126	149	145	147	136	129	133	133	127	130
31	---	---	---	148	145	147	142	132	138	---	---	---
MONTH	130	71	101	153	121	137	169	90	134	163	122	144
YEAR	229	65	122									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

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

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 south of West Suffield.

DRAINAGE AREA.--10.4 mi² .

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 149.21 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair.

AVERAGE DISCHARGE.--8 years, 20.1 ft³/s, 26.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft³/s, June 6, 1982, gage height, 5.83 ft; minimum, 0.10 ft³/s, Aug. 22, 25, 26, 1988, gage height, 0.93 ft.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0300	291	3.04	May 11	0845	340	3.17
May 2	2330	266	2.96	24	1545	*492	*3.58
6	2115	211	2.77	June 10	0400	465	3.50

Minimum discharge, 0.57 ft³/s, Oct. 2, gage height, 0.98 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	12	21	8.0	11	e5.7	64	18	23	9.9	3.2	3.4
2	.66	69	18	e7.3	12	e5.3	33	98	28	8.9	2.9	3.0
3	1.4	37	16	e6.6	12	e5.0	26	162	37	7.9	2.8	2.6
4	1.1	16	13	e6.1	e11	e4.8	32	53	20	7.2	2.6	2.1
5	1.0	10	11	e5.6	e9.4	e4.6	32	29	15	8.0	2.4	1.9
6	1.1	29	11	e5.3	e8.2	e4.4	69	109	17	12	2.0	1.9
7	1.6	17	e10	e5.0	e7.2	e4.3	57	129	27	9.6	1.9	1.7
8	2.7	9.1	13	e4.8	e6.4	e4.2	49	51	50	7.6	2.2	1.7
9	3.0	7.2	10	5.2	e5.9	e4.1	39	33	95	6.2	3.8	1.7
10	3.7	6.2	8.0	e4.5	e5.5	e4.0	28	43	331	7.0	1.6	1.6
11	1.5	6.7	6.8	e4.3	e5.1	e3.9	23	251	111	17	18	1.5
12	1.1	6.1	e5.8	4.2	e4.8	e3.8	20	145	48	8.1	117	1.3
13	1.1	12	e5.2	4.7	e4.6	e3.7	18	80	35	6.3	116	1.4
14	1.1	32	e4.6	4.6	6.1	5.3	17	50	38	5.8	56	1.4
15	1.1	15	5.6	12	13	6.7	18	39	60	5.7	21	16
16	1.2	9.6	5.9	11	22	8.2	90	39	120	4.5	12	35
17	1.2	19	e5.6	7.5	17	8.3	60	59	75	15	9.8	16
18	1.4	25	e5.4	6.8	e12	12	31	37	44	11	7.6	17
19	2.0	13	e5.2	8.5	e9.5	15	25	27	30	7.2	6.1	9.5
20	2.1	60	e5.0	9.4	e7.0	9.3	21	22	22	6.3	6.0	15
21	2.3	205	7.6	e8.3	33	13	18	30	22	23	5.7	33
22	20	64	9.8	e7.2	63	18	16	48	20	13	5.1	45
23	22	29	8.1	e6.0	31	12	14	24	25	8.7	4.3	27
24	7.5	20	9.9	e5.2	16	11	14	292	108	6.4	3.7	33
25	4.8	15	29	4.5	e11	65	13	193	46	5.3	3.2	29
26	3.9	14	23	5.0	e9.0	49	13	72	23	4.7	2.8	12
27	3.4	13	13	10	e7.0	24	12	44	17	3.9	2.4	43
28	3.0	67	13	7.2	e6.2	20	11	41	15	5.6	2.2	28
29	3.4	61	24	6.5	---	21	10	28	14	5.2	2.4	12
30	3.4	30	13	7.6	---	33	23	23	11	3.7	7.2	8.2
31	3.0	---	9.7	9.1	---	68	---	23	---	3.4	5.5	---
TOTAL	107.46	928.9	346.2	208.0	365.9	456.6	896	2292	1527	254.1	439.4	405.9
MEAN	3.47	31.0	11.2	6.71	13.1	14.7	29.9	73.9	50.9	8.20	14.2	13.5
MAX	22	205	29	12	63	68	90	292	331	23	117	45
MIN	.66	6.1	4.6	4.2	4.6	3.7	10	18	11	3.4	1.6	1.3
CFSM	.33	2.98	1.07	.65	1.26	1.42	2.87	7.11	4.89	.79	1.36	1.30
IN.	.38	3.32	1.24	.74	1.31	1.63	3.20	8.20	5.46	.91	1.57	1.45

CAL YR 1988 TOTAL 4983.05 MEAN 13.6 MAX 205 MIN .20 CFSM 1.31 IN. 17.82
WTR YR 1989 TOTAL 8227.46 MEAN 22.5 MAX 331 MIN .66 CFSM 2.17 IN. 29.43

e Estimated

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: October 1981 to September 1987.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE.--May 1981 to September 1981, October 1987 to September 1988.

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 December 1985 to May 31, 1986.

EXTREMES FOR PERIODS.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 170 mg/L Nov. 6, 1985; minimum daily mean, 1 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 87 tons June 7, 1986; minimum daily, 0 ton on numerous days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
NOV 08...	1400	8.6	258	7.08	12.0	7.0	1.7	9.8	81	K3	40	110
JAN 18...	1400	6.8	257	7.47	9.0	2.0	6.6	13.4	96	20	56	110
MAR 17...	1410	7.9	232	7.63	21.0	6.5	2.0	12.9	104	25	62	97
MAY 12...	1400	140	117	7.08	21.5	14.0	3.8	9.0	86	150	390	49
JUL 17...	1300	20	272	7.63	20.5	18.5	4.4	6.8	72	500	4500	110
SEP 02...	1245	3.2	293	7.72	23.5	20.0	1.4	6.7	74	270	1000	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, 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)
NOV 08...	30	8.8	19	51	14	10	193	0.26	4.48	194	0.290	0.010
JAN 18...	30	8.8	63	36	20	11	149	0.20	2.73	185	--	<0.010
MAR 17...	26	7.9	--	31	15	--	143	0.19	3.05	153	0.390	0.010
MAY 12...	13	4.0	32	16	6.5	7.3	90	0.12	34.0	95	--	<0.010
JUL 17...	30	8.5	84	18	20	8.6	165	0.22	8.46	177	0.580	0.020
SEP 02...	33	9.1	--	27	21	--	187	0.25	1.61	176	--	<0.010

CONNECTICUT RIVER BASIN

83

01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
NOV 08...	0.300	0.020	0.58	0.60	0.90	0.050	0.040	<1	2	<1	<1	7
JAN 18...	0.700	0.040	0.46	0.50	1.2	0.030	0.020	<1	<1	1	<1	1
MAR 17...	0.400	0.090	0.11	0.20	0.60	0.030	0.020	<1	<1	<1	<1	1
MAY 12...	0.200	0.020	0.38	0.40	0.60	0.030	0.030	<1	<1	2	<1	3
JUL 17...	0.600	0.030	0.67	0.70	1.3	0.090	0.060	<1	1	<1	<1	4
SEP 02...	0.700	0.030	0.47	0.50	1.2	0.060	0.050	<1	<1	<1	<1	2

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)
NOV 08...	1	200	140	<5	<5	45	3	3	<10	7	15
JAN 18...	<1	460	110	<5	<5	92	3	<1	<10	7	4.8
MAR 17...	3	280	--	<5	<5	--	5	<1	<10	<3	4.6
MAY 12...	2	550	140	2	<1	15	2	4	<10	5	7.9
JUL 17...	1	670	250	2	<1	63	2	<1	<10	5	6.4
SEP 02...	<1	170	--	<1	<1	--	<1	<1	<10	7	4.5

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 upstream from mouth.

DRAINAGE AREA.--15.5 mi².

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

REVISED RECORDS.--WSP 2101: 1962 (P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 46.210 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by reservoir and mill upstream.

AVERAGE DISCHARGE.--22 years, 23.5 ft³/s, 20.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,140 ft³/s, Sept. 27, 1975, gage height, 6.56 ft; minimum, 1.35 ft³/s, Jan. 1, 1965, gage height, 0.43 ft; minimum daily, 1.70 ft³/s, July 17, 1965.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2400	220	2.50	June 10	0030	244	2.63
May 2	1745	178	2.27	Aug. 13	1630	*731	*5.03
24	1615	492	3.89				

Minimum discharge, 8.5 ft³/s, Oct. 1, 2, 5, 6, 7, gage height, 0.71 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	20	23	17	16	e16	51	25	34	24	16	18
2	9.1	42	22	17	16	e15	33	101	34	23	16	18
3	10	17	21	17	17	e15	32	57	33	23	15	17
4	9.1	14	20	14	e16	e15	33	36	31	22	15	19
5	8.8	14	19	13	e15	e15	31	32	29	24	14	19
6	8.8	16	19	e13	e14	e14	44	64	32	26	15	16
7	9.0	13	19	e12	e13	e14	50	43	38	24	15	16
8	12	12	18	15	e12	e14	56	34	60	22	14	16
9	11	12	e17	15	e12	e14	43	31	91	21	14	16
10	10	12	e16	15	e12	e14	36	38	139	22	13	16
11	10	12	e15	15	e11	e13	32	99	54	23	77	15
12	10	11	14	15	e11	e13	30	67	41	20	81	15
13	9.9	22	e14	17	e11	e13	28	50	43	19	246	15
14	9.8	22	17	15	15	15	27	41	41	19	70	17
15	9.9	15	17	25	21	16	29	38	54	18	41	43
16	9.9	14	16	18	25	16	61	37	88	19	35	21
17	9.8	24	15	16	e15	16	39	35	74	33	29	33
18	10	20	e14	16	e14	19	33	31	48	23	26	22
19	10	16	e14	16	e13	22	31	29	40	20	25	25
20	9.8	79	16	16	e12	18	28	27	36	22	24	40
21	9.8	96	18	14	60	23	27	32	34	44	23	65
22	19	29	18	e13	48	22	26	36	33	25	22	34
23	14	24	16	e13	27	19	25	28	35	22	21	29
24	12	22	25	e12	21	20	24	249	41	20	20	29
25	11	20	35	e12	19	43	24	117	33	19	20	23
26	10	19	21	16	18	29	23	58	30	18	19	37
27	10	19	18	19	e17	24	22	49	29	18	19	31
28	10	63	23	15	e16	23	22	46	28	20	18	25
29	10	35	25	15	---	22	22	39	26	17	20	23
30	10	26	19	17	---	35	28	36	25	17	23	22
31	10	---	18	16	---	64	---	35	---	16	19	---
TOTAL	321.7	760	582	479	517	631	990	1640	1354	683	1025	735
MEAN	10.4	25.3	18.8	15.5	18.5	20.4	33.0	52.9	45.1	22.0	33.1	24.5
MAX	19	96	35	25	60	64	61	249	139	44	246	65
MIN	8.8	11	14	12	11	13	22	25	25	16	13	15
CFSM	.67	1.63	1.21	1.00	1.19	1.31	2.13	3.41	2.91	1.42	2.13	1.58
IN.	.77	1.82	1.40	1.15	1.24	1.51	2.38	3.94	3.25	1.64	2.46	1.76

CAL YR 1988 TOTAL 7254.5 MEAN 19.8 MAX 135 MIN 2.4 CFSM 1.28 IN. 17.41
WTR YR 1989 TOTAL 9717.7 MEAN 26.6 MAX 249 MIN 8.8 CFSM 1.72 IN. 23.32

e Estimated

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT

LOCATION.--Lat 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 upstream from Still River, 2.0 mi downstream from Goodwin Dam of West Branch Reservoir, and at mile 55.

DRAINAGE AREA.--131 mi².

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

Water-quality records: Water Years 1954, 1955, 1975-80.

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

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

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake (see p. 152).

AVERAGE DISCHARGE (adjusted for storage).--34 years, 249 ft³/s, 25.82 in/yr.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft³/s, May 29, gage height, 6.09 ft; minimum daily, 53 ft³/s, Oct. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	136	205	147	273	119	165	168	195	419	399	332
2	115	184	200	146	229	135	143	287	191	449	401	373
3	75	188	200	147	197	147	139	225	186	457	383	371
4	53	198	200	143	193	148	142	189	193	440	361	261
5	53	206	200	148	191	148	149	181	257	262	373	168
6	61	246	198	265	189	147	239	396	194	124	361	361
7	68	203	196	346	171	147	217	230	201	107	368	357
8	70	194	196	424	133	146	196	193	353	107	330	268
9	70	190	196	416	114	103	186	185	434	107	304	128
10	70	187	195	428	113	69	179	207	257	107	328	128
11	70	174	192	374	114	69	176	314	258	109	353	267
12	63	194	212	346	114	70	172	166	593	107	384	368
13	57	204	238	291	114	70	171	111	955	93	398	366
14	65	215	221	287	115	72	173	93	1050	240	381	370
15	70	201	178	290	120	76	177	307	853	320	313	308
16	70	196	162	293	125	72	228	509	594	328	279	188
17	79	196	162	291	119	69	199	552	779	360	297	189
18	82	211	162	284	116	69	185	746	832	396	362	189
19	75	207	162	285	114	68	182	1080	816	394	404	191
20	73	332	164	287	114	64	176	1060	541	350	404	195
21	73	342	164	285	167	65	171	1050	180	366	409	209
22	90	242	151	286	171	65	170	629	182	408	410	167
23	85	223	139	281	154	84	168	394	186	408	408	162
24	80	215	142	285	126	102	169	515	209	413	344	211
25	80	211	153	284	122	121	167	442	186	417	378	202
26	80	210	147	277	119	128	166	475	282	423	423	226
27	108	209	142	278	120	127	165	821	354	419	420	216
28	125	244	149	272	119	132	162	1080	308	402	419	205
29	127	227	159	269	---	138	162	1090	301	411	419	207
30	127	213	152	266	---	143	171	737	383	408	412	206
31	125	---	149	274	---	161	---	275	---	394	324	---
TOTAL	2553	6398	5486	8695	4066	3274	5265	14707	12303	9745	11549	7389
MEAN	82.4	213	177	280	145	106	175	474	410	314	373	246
MAX	127	342	238	428	273	161	239	1090	1050	457	423	373
MIN	53	136	139	143	113	64	139	93	180	93	279	128
(+)	-21.0	+327	+12.5	-168	+4.3	+84.6	+256	+322	-39.6	-227	-238	-146
MEAN+	61.4	540	190	112	149	191	431	796	370	87.0	135	100
CFSM+	.47	4.12	1.45	.86	1.14	1.46	3.29	6.08	2.82	.66	1.03	.76
IN+	.54	4.60	1.67	.99	1.19	1.68	3.67	7.01	3.15	.76	1.19	.85

CAL YR 1988 TOTAL 67559 MEAN 185 MAX 360 MIN 53 MEAN+ 208 CFSM+ 1.59 IN+ 21.60
WTR YR 1989 TOTAL 91430 MEAN 250 MAX 1090 MIN 53 MEAN+ 263 CFSM+ 2.01 IN+ 27.30

+ 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.

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 downstream from Sandy Brook, 1 mi southeast of Robertsville, 1 mi northwest of Riverton, and 1 mi upstream from mouth.

DRAINAGE AREA.--85.0 mi².

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

REVISED RECORDS.--WSP 1901: 1948-60. WDR-CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 510.24 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake (see p. 152).

AVERAGE DISCHARGE (adjusted for storage).--39 years, 173 ft³/s, 27.63 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s, May 6, gage height, 6.02 ft; minimum, 4.5 ft³/s, Sept. 12, gage height, 1.30 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	112	247	99	102	e70	370	147	173	79	31	31
2	42	557	213	92	119	e66	249	835	208	67	45	18
3	63	383	184	e88	105	e63	211	716	243	64	34	15
4	71	216	162	e84	92	e60	221	384	174	47	31	15
5	64	227	137	e80	e82	e56	272	287	142	66	12	34
6	59	650	e130	e77	e74	e52	733	1550	146	88	16	9.1
7	70	341	e120	e75	66	e50	585	996	184	74	26	12
8	85	224	e110	e73	e63	e48	444	586	246	93	8.6	24
9	76	179	e100	e72	e59	e47	367	365	354	74	23	5.1
10	52	152	e97	e70	e56	e46	318	485	784	92	5.0	13
11	49	112	e93	e68	e54	e45	274	1580	399	154	74	25
12	52	106	e90	e67	e52	54	242	1230	253	100	446	5.0
13	57	176	e86	e66	e50	51	218	821	238	82	567	7.7
14	52	303	e95	78	70	53	200	510	242	68	418	25
15	46	210	e105	116	115	73	211	396	458	63	241	107
16	25	184	e100	122	145	86	575	604	983	44	157	67
17	48	196	e97	85	102	61	473	1030	550	84	88	56
18	47	210	e94	78	e80	88	334	667	339	74	64	56
19	49	170	e90	84	e60	107	264	380	241	60	52	44
20	59	735	e88	86	e50	78	222	285	186	57	48	101
21	60	1290	e93	95	426	81	188	248	159	140	61	196
22	186	732	e100	e80	529	71	161	212	165	99	60	214
23	151	483	91	e70	260	77	144	177	186	77	52	234
24	117	315	e86	59	148	68	134	933	327	68	45	162
25	89	272	188	62	110	181	126	903	251	38	45	96
26	69	245	140	78	e100	262	121	440	180	41	19	254
27	48	221	114	150	e85	246	116	307	155	36	26	240
28	59	438	142	106	e75	233	120	259	125	62	32	142
29	37	396	237	90	---	241	109	206	109	54	17	99
30	43	294	155	92	---	243	166	175	90	49	41	76
31	48	---	119	100	---	319	---	171	---	26	21	---
TOTAL	2053	10129	3903	2642	3329	3276	8168	17885	8290	2220	2805.6	2382.9
MEAN	66.2	338	126	85.2	119	106	272	577	276	71.6	90.5	79.4
MAX	186	1290	247	150	529	319	733	1580	983	154	567	254
MIN	25	106	86	59	50	45	109	147	90	26	5.0	5.0
(+)	-24.5	-0.2	+1.6	+6.1	+7.7	+10.6	+12.1	+0.6	-0.3	-0.5	-0.8	-3.0
MEAN†	41.7	338	128	91.3	127	117	284	578	276	71.1	89.7	76.4
CFSM†	.49	3.98	1.51	1.07	1.49	1.38	3.34	6.80	3.25	.84	1.06	.90
IN†	.56	4.44	1.74	1.23	1.55	1.59	3.73	7.84	3.63	.97	1.22	1.00

CAL YR 1988 TOTAL 46545.8 MEAN 127 MAX 1290 MIN 4.9 MEAN† 126 CFSM† 1.48 IN† 20.18

WTR YR 1989 TOTAL 67083.5 MEAN 184 MAX 1580 MIN 5.0 MEAN† 185 CFSM† 2.18 IN† 29.50

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

† Adjusted for change in contents.

e Estimated

CONNECTICUT RIVER BASIN

87

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 upstream from Farmington River, and 1.1 mi downstream from Sandy Brook.

DRAINAGE AREA.--86.2 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
OCT										
20...	0840	57	140	7.56	4.5	8.5	0.75	11.0	94	2300
NOV										
07...	0940	432	820	7.75	10.0	8.0	5.7	11.3	99	720
DEC										
15...	1030	218	143	8.11	9.5	0.5	1.1	14.6	103	2000
JAN										
09...	0930	72	225	8.63	1.5	0.5	2.5	14.2	99	3800
MAR										
17...	1000	68	139	7.60	15.0	4.0	1.3	15.2	118	920
APR										
17...	0845	480	86	8.44	12.0	5.0	2.2	13.7	106	23
MAY										
12...	0835	1320	68	7.60	15.0	9.0	1.6	11.2	98	92
JUN										
16...	1015	1030	68	7.27	17.0	14.0	2.0	10.2	98	480
JUL										
17...	0900	91	130	7.63	17.5	18.0	1.7	8.8	94	840
AUG										
10...	0850	5.3	138	7.89	22.0	17.0	0.65	9.0	93	K13
SEP										
02...	0945	14	192	7.70	24.0	19.5	1.3	9.6	106	80

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT										
20...	1200	33	8.5	2.9	--	10	16	--	70	0.09
NOV										
07...	200	24	6.1	2.2	13	17	9.7	5.4	63	0.08
DEC										
15...	1200	33	8.6	2.7	--	14	18	--	66	0.09
JAN										
09...	660	35	9.2	3.0	20	13	45	7.2	129	0.17
MAR										
17...	240	35	9.1	3.0	--	12	20	--	80	0.11
APR										
17...	57	22	5.6	2.0	--	9.0	12	--	55	0.07
MAY										
12...	140	18	4.6	1.5	9.0	9.0	8.1	4.3	44	0.06
JUN										
16...	4000	19	5.1	1.6	--	8.0	7.7	--	41	0.06
JUL										
17...	660	37	9.9	3.0	24	8.0	16	5.3	75	0.10
AUG										
10...	35	38	10	3.2	--	8.0	15	--	119	0.16
SEP										
02...	27	46	12	4.0	--	11	27	--	115	0.16

CONNECTICUT RIVER BASIN

01186800 STILL RIVER AT RIVERTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 20...	10.8	79	0.460	0.040	0.500	0.320	0.38	0.70	1.2	0.170
NOV 07...	73.5	69	--	<0.010	<0.100	0.060	0.44	0.50	--	0.060
DEC 15...	38.8	94	0.190	0.010	0.200	0.310	0.39	0.70	0.90	0.140
JAN 09...	25.1	132	--	<0.010	0.300	0.360	0.24	0.60	0.90	0.070
MAR 17...	14.7	85	0.290	0.010	0.300	0.320	0.38	0.70	1.0	0.090
APR 17...	71.3	58	--	<0.010	0.100	0.060	0.44	0.50	0.60	0.010
MAY 12...	157	42	--	<0.010	<0.100	0.060	--	<0.20	--	0.010
JUN 16...	114	54	--	<0.010	0.200	0.020	0.28	0.30	0.50	0.010
JUL 17...	18.4	78	--	<0.010	0.600	0.030	0.47	0.50	1.1	0.110
AUG 10...	1.70	119	0.590	0.010	0.600	0.020	0.38	0.40	1.0	0.100
SEP 02...	4.30	125	1.59	0.010	1.60	0.040	0.76	0.80	2.4	0.100

DATE	PHOS- PHOROUS 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...	0.150	<1	1	1	--	<5	--	<1	8	4.7
NOV 07...	0.030	<1	<1	8	180	<5	17	3	22	8.6
DEC 15...	0.120	<1	<1	5	--	<5	--	3	5	3.9
JAN 09...	0.060	<1	<1	1	110	<5	33	<1	7	4.2
MAR 17...	0.060	<1	<1	3	--	<5	--	<1	<3	3.0
APR 17...	<0.010	<1	<1	<1	--	<5	--	<1	10	3.7
MAY 12...	<0.010	<1	<1	2	74	<1	12	1	8	5.0
JUN 16...	0.020	<1	<1	1	--	<1	--	1	4	6.8
JUL 17...	0.100	<1	<1	3	230	<1	18	2	9	5.2
AUG 10...	0.100	<1	<1	3	--	<1	--	1	4	3.7
SEP 02...	0.090	<1	1	3	--	1	--	1	20	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 upstream from bridge on State Highway 20, 0.5 mi upstream from confluence with Valley Brook, and 2.6 mi northeast of West Hartland.

DRAINAGE AREA.--19.9 mi².

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.

REVISED RECORDS.--WDR-CT-83-1: Drainage area.

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

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

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

AVERAGE DISCHARGE.--50 years, 39.6 ft³/s, 28.11 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2130	*1160	*6.03	May 24	1430	571	4.68
May 2	1200	659	4.92	June 10	0100	553	4.63
6	0730	1010	5.72	16	0230	621	4.82
11	0330	1010	5.73				

Minimum discharge, 1.7 ft³/s, Sept. 13, 14, gage height, 0.19 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	62	54	23	22	e13	116	49	24	9.8	4.1	3.3
2	2.1	224	46	e18	23	e12	74	331	36	8.6	3.7	3.6
3	2.5	100	39	e15	e20	e11	69	160	37	7.2	3.3	3.4
4	2.6	59	35	13	e16	e10	74	86	23	6.4	3.1	2.9
5	2.4	79	29	e12	e14	e9.5	97	65	18	7.2	3.0	2.5
6	2.2	185	26	e12	e12	e9.0	262	572	23	10	2.8	2.4
7	2.2	80	e24	e11	e11	e8.7	150	178	30	9.2	2.6	2.7
8	5.5	53	e21	e11	e9.6	e8.4	102	101	46	7.2	2.5	2.7
9	9.9	38	e18	e11	e8.8	e8.4	80	75	111	6.4	2.2	2.5
10	6.4	30	e16	e10	e8.2	e8.2	65	141	295	7.4	2.0	2.4
11	5.0	27	e15	e10	e7.8	e8.0	54	585	99	16	18	2.4
12	4.1	23	13	e9.8	e7.5	e8.6	43	264	58	9.8	96	2.2
13	3.6	47	e12	e9.6	e7.3	e8.0	37	145	70	7.4	145	1.9
14	3.3	85	e12	e9.4	e7.0	e9.0	35	98	74	6.6	111	3.8
15	3.1	55	e15	19	23	16	42	75	144	6.1	49	20
16	3.0	38	e14	19	31	18	182	163	347	5.4	25	10
17	2.8	51	e14	16	e14	17	117	235	132	11	17	8.8
18	3.0	51	e13	14	e11	26	79	113	80	9.9	13	7.6
19	3.6	36	e13	16	e10	27	65	76	56	7.5	10	8.8
20	3.4	347	e12	17	e9.5	18	54	59	38	7.6	8.9	25
21	3.2	391	e13	13	136	17	43	47	30	14	8.1	54
22	88	118	e13	e12	135	15	36	32	27	11	8.7	44
23	53	83	e12	11	62	15	32	24	33	8.7	7.2	56
24	25	66	23	12	e28	16	29	340	66	6.9	5.8	38
25	17	56	54	12	e20	33	28	183	42	6.0	4.7	22
26	13	54	35	13	e17	80	31	91	26	5.1	4.1	88
27	11	50	25	23	e15	101	29	68	19	4.5	3.8	67
28	10	122	39	17	e14	126	27	56	16	10	3.7	31
29	10	89	67	16	---	113	29	39	14	7.9	3.8	20
30	8.9	64	40	18	---	100	59	29	11	5.5	4.4	15
31	8.0	---	29	19	---	108	---	26	---	4.6	3.8	---
TOTAL	320.0	2763	791	441.8	699.7	977.8	2140	4506	2025	250.9	580.3	553.9
MEAN	10.3	92.1	25.5	14.3	25.0	31.5	71.3	145	67.5	8.09	18.7	18.5
MAX	88	391	67	23	136	126	262	585	347	16	145	88
MIN	2.1	23	12	9.4	7.0	8.0	27	24	11	4.5	2.0	1.9
CFSM	.52	4.63	1.28	.72	1.26	1.59	3.58	7.30	3.39	.41	.94	.93
IN.	.60	5.17	1.48	.83	1.31	1.83	4.00	8.42	3.79	.47	1.08	1.04

CAL YR 1988 TOTAL 11185.6 MEAN 30.6 MAX 391 MIN 1.1 CFSM 1.54 IN. 20.91
WTR YR 1989 TOTAL 16049.4 MEAN 44.0 MAX 585 MIN 1.9 CFSM 2.21 IN. 30.00

e Estimated

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 north of Burlington, 3 mi upstream from mouth, and 3 mi southwest of Collinsville.

DRAINAGE AREA.--4.10 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1301: 1933-45 (M). WDR-CT-83-1: Drainage area.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Occasional regulation at low flow.

AVERAGE DISCHARGE.--58 years, 8.26 ft³/s, 27.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft³/s, Aug. 19, 1955, gage height, 9.22 ft, from rating curve extended above 320 ft³/s on basis of computation of peak flow through orifice and over weir abutments at 676 ft³/s and 1,690 ft³/s; minimum unregulated, 0.12 ft³/s, June 22, 1965; minimum unregulated daily, 0.44 ft³/s, Aug. 31, Sept. 10, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2400	233	6.38	May 16	2000	191	5.95
May 2	1300	143	5.38	24	0945	144	5.39
6	0915	166	5.67	Aug. 12	1945	151	5.48
11	0400	*240	*6.45				

Minimum discharge, 0.55 ft³/s, Oct. 1, 2, gage height, 1.74 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	16	9.0	5.0	5.4	e3.7	28	6.5	10	3.6	2.3	2.4
2	.80	32	7.8	e4.7	5.4	e3.5	12	64	9.4	3.4	2.1	2.3
3	2.0	8.2	7.2	e4.5	5.3	e3.4	11	24	9.0	3.2	2.0	1.9
4	1.0	4.5	6.4	e4.2	5.2	e3.3	13	12	6.9	3.2	1.9	1.7
5	.87	12	e6.0	e4.1	4.1	e3.2	13	10	6.1	3.9	1.8	1.7
6	.73	41	e5.7	e3.9	3.9	e3.1	33	90	7.3	4.6	1.7	1.6
7	.73	8.4	e5.4	e3.8	e3.7	e3.0	20	26	12	4.9	1.7	1.6
8	2.5	5.4	e5.2	e3.7	e3.5	e2.9	16	16	18	10	1.7	1.5
9	2.1	4.3	e4.9	5.0	e3.3	e2.8	12	13	26	4.1	1.6	1.5
10	1.3	3.8	e4.6	4.3	e3.1	e2.8	10	32	48	12	1.5	1.5
11	1.1	3.8	e4.4	3.9	e3.0	e2.7	8.6	120	15	17	18	1.4
12	.88	3.4	e4.2	4.8	e2.9	3.4	7.7	45	9.4	4.9	51	1.4
13	.86	7.0	e4.1	7.9	e2.8	e3.2	7.3	25	12	4.0	41	1.3
14	.79	12	e4.5	4.6	5.0	3.6	7.7	19	13	3.9	15	2.7
15	.89	5.6	e4.8	12	6.4	4.4	9.0	15	21	4.0	7.4	15
16	.77	4.2	e4.6	7.5	8.1	4.5	43	70	30	3.8	5.2	4.8
17	.80	9.6	e4.4	5.4	5.0	4.1	17	59	16	11	4.2	6.0
18	1.0	9.1	e4.3	4.8	3.8	6.0	11	24	11	6.1	3.4	4.2
19	.97	5.4	e4.2	5.3	e3.5	7.8	10	17	8.2	4.5	3.2	6.5
20	.89	77	e4.1	5.3	e3.1	4.8	8.4	13	6.7	4.1	3.3	18
21	.91	76	e4.5	4.7	18	6.4	7.5	13	6.1	10	3.0	19
22	15	17	e5.0	4.1	18	7.4	6.9	12	6.4	5.5	2.8	11
23	4.8	11	e5.0	e3.8	9.4	6.3	6.4	9.4	7.4	4.3	2.6	14
24	2.8	9.4	e7.0	e3.5	6.0	6.2	6.0	87	24	3.5	2.4	10
25	2.2	8.0	e14	e3.3	4.9	36	5.7	35	9.2	3.1	2.1	5.7
26	1.8	7.2	e9.0	e3.2	4.3	20	5.5	18	6.5	2.8	1.9	16
27	1.8	7.1	e7.0	7.9	e4.1	11	5.2	16	5.2	2.6	1.8	8.8
28	1.5	43	e6.0	5.1	e3.9	9.3	5.1	14	4.8	3.9	1.9	5.3
29	1.7	19	13	4.7	---	8.9	5.1	10	4.6	2.9	2.4	4.5
30	1.5	11	7.0	6.0	---	14	8.6	9.1	4.0	2.5	7.0	3.9
31	1.4	---	5.6	5.7	---	29	---	8.9	---	2.4	3.0	---
TOTAL	56.97	481.4	188.9	156.7	155.1	230.7	359.7	932.9	373.2	159.7	200.9	177.2
MEAN	1.84	16.0	6.09	5.05	5.54	7.44	12.0	30.1	12.4	5.15	6.48	5.91
MAX	15	77	14	12	18	36	43	120	48	17	51	19
MIN	.58	3.4	4.1	3.2	2.8	2.7	5.1	6.5	4.0	2.4	1.5	1.3
CFSM	.45	3.91	1.49	1.23	1.35	1.82	2.92	7.34	3.03	1.26	1.58	1.44
IN.	.52	4.37	1.71	1.42	1.41	2.09	3.26	8.46	3.39	1.45	1.82	1.61

CAL YR 1988 TOTAL 2359.45 MEAN 6.45 MAX 77 MIN .54 CFSM 1.57 IN. 21.41
WTR YR 1989 TOTAL 3473.37 MEAN 9.52 MAX 120 MIN .58 CFSM 2.32 IN. 31.51

e Estimated

CONNECTICUT RIVER BASIN

91

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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML)	
NOV 07...	1400	7.8	86	6.63	7.5	8.0	1.4	11.6	101	50	
JAN 13...	1330	7.1	128	6.99	0.0	2.0	1.3	13.6	100	51	
MAY 11...	1240	101	48	6.45	10.0	8.5	2.2	11.7	103	130	
JUL 12...	1130	5.1	89	7.32	24.5	19.0	3.3	7.7	85	33	
DATE		STREP-TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CaCO3)	HARD-NESS NONCARB WH WAT TOT FLD (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 07...	150	20	13	4.4	2.1	7.0	18	11	7.5	63	
JAN 13...	250	21	12	4.8	2.1	9.0	13	25	8.4	77	
MAY 11...	320	9	5	1.6	1.1	4.0	7.0	6.8	4.8	41	
JUL 12...	120	19	7	4.5	1.8	12	7.0	13	8.5	55	
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, 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-PHOUS TOTAL (MG/L AS P)
NOV 07...	0.08	1.33	64	<0.010	<0.100	0.030	0.37	0.40	--	0.040	
JAN 13...	0.10	1.48	80	<0.010	0.300	0.090	0.31	0.40	0.70	0.010	
MAY 11...	0.06	11.2	37	<0.010	<0.100	0.010	--	<0.20	--	0.020	
JUL 12...	0.07	0.76	60	<0.010	0.100	0.070	0.33	0.40	0.50	0.020	
DATE		PHOS-PHOUS TOTAL (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 07...	0.010	1	<1	2	190	<5	120	<1	12	6.4	
JAN 13...	<0.010	<1	<1	1	200	<5	230	<1	9	4.0	
MAY 11...	<0.010	<1	2	1	110	1	55	1	7	4.4	
JUL 12...	0.010	<1	<1	1	440	<1	160	<1	6	4.7	

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 downstream from Burlington Brook and 3.9 mi upstream from Pequobuck River.

DRAINAGE AREA.--377 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
18...	1035	163	107	7.77	19.0	14.0	0.50	10.9	106	150	31
NOV											
07...	1230	710	77	7.03	9.0	11.0	2.2	11.2	103	150	420
DEC											
13...	1250	320	95	7.37	-5.0	3.0	0.68	14.0	104	350	150
JAN											
13...	1215	439	116	7.35	2.0	2.0	1.0	14.3	102	290	180
MAR											
17...	1045	200	110	8.87	19.0	7.0	0.65	15.5	126	38	K18
APR											
18...	1000	750	83	7.64	19.5	10.0	1.1	12.7	113	K10	320
MAY											
11...	1030	5080	59	6.76	12.0	10.0	6.9	11.3	100	140	2300
JUN											
15...	1215	2020	73	7.22	15.5	13.0	2.0	11.6	109	220	350
JUL											
12...	1006	318	96	7.50	26.0	21.5	1.6	9.1	103	51	50
AUG											
10...	0940	430	72	7.33	25.5	18.0	1.2	9.9	104	K4	460
SEP											
02...	0920	454	75	7.24	24.5	20.5	0.90	9.2	103	31	34

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD 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, DIS- SOLVED (TONS PER AC-FT)
OCT										
18...	28	--	7.4	2.3	--	11	13	--	67	0.09
NOV										
07...	22	11	5.6	2.0	11	16	9.7	5.4	52	0.07
DEC										
13...	24	--	6.5	2.0	--	13	12	--	56	0.08
JAN										
13...	23	11	6.2	1.8	12	12	21	5.4	74	0.10
MAR										
17...	26	--	7.0	2.1	--	12	16	--	60	0.08
APR										
18...	22	--	5.6	1.9	--	9.0	12	--	60	0.08
MAY										
11...	13	7	3.1	1.2	6.0	8.0	7.3	4.7	44	0.06
JUN										
15...	19	--	5.1	1.5	--	8.0	9.1	--	48	0.06
JUL										
12...	23	8	6.2	1.9	15	8.0	12	5.1	42	0.06
AUG										
10...	19	--	5.3	1.5	--	8.0	8.9	--	39	0.05
SEP										
02...	20	--	5.4	1.5	--	8.0	8.6	--	47	0.06

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 18...	29.5	67	0.390	0.010	0.400	0.010	0.39	0.40	0.80	0.030
NOV 07...	99.7	62	--	<0.010	0.100	0.030	0.47	0.50	0.60	0.040
DEC 13...	48.4	70	0.190	0.010	0.200	0.090	0.31	0.40	0.60	0.030
JAN 13...	87.7	83	0.190	0.010	0.200	0.110	0.29	0.40	0.60	0.030
MAR 17...	32.4	75	--	<0.010	0.200	<0.010	--	<0.20	--	0.020
APR 18...	121	60	--	<0.010	0.200	<0.010	--	0.30	0.50	0.020
MAY 11...	603	82	--	<0.010	0.100	0.030	0.37	0.40	0.50	0.100
JUN 15...	262	58	--	<0.010	0.200	0.020	0.38	0.40	0.60	0.020
JUL 12...	36.1	59	--	<0.010	0.300	0.040	0.36	0.40	0.70	0.030
AUG 10...	45.3	39	--	<0.010	0.200	0.020	0.18	0.20	0.40	0.020
SEP 02...	57.6	43	--	<0.010	0.200	0.020	0.28	0.30	0.50	0.020

DATE	PHOS- PHOROUS 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...	0.030	<1	<1	1	--	<5	--	<1	<3	4.0
NOV 07...	0.020	<1	<1	2	140	<5	16	2	<3	7.1
DEC 13...	0.020	<1	<1	4	--	<5	--	6	4	4.4
JAN 13...	0.010	<1	<1	1	92	<5	20	1	12	4.6
MAR 17...	0.010	<1	<1	1	--	<5	--	<1	<3	2.9
APR 18...	0.010	<1	1	<1	--	<5	--	<1	6	3.6
MAY 11...	0.010	<1	1	2	81	<1	39	<1	4	6.7
JUN 15...	0.010	<1	<1	1	--	1	--	<1	6	4.4
JUL 12...	0.020	<1	<1	2	120	<1	12	1	<3	4.2
AUG 10...	0.020	<1	<1	1	--	<1	--	1	<3	3.8
SEP 02...	0.010	<1	<1	<1	--	<1	--	1	7	3.8

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 downstream from Burlington Brook and 3.0 mi upstream from Pequabuck River.

DRAINAGE AREA.--378 mi².

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

Water-quality records: Water years 1977-80.

GAGE.--Water-stage recorder. Datum of gage is 178.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. 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. 152), and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

AVERAGE DISCHARGE (adjusted for storage and diversion).--12 years, 739 ft³/s, 26.53 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s, Mar. 23, 1980, gage height, 16.57 ft; minimum, 66 ft³/s, July 10, 1985, gage height, 3.95 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 32.9 ft from floodmark, discharge, 140,000 ft³/s, by slope-area measurement 3.8 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,220 ft³/s, May 11, gage height, 10.10 ft; minimum, 114 ft³/s, Oct. 17, gage height, 4.29 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	279	594	323	426	e240	855	440	632	625	473	449
2	288	1030	544	304	465	e230	617	1570	783	632	485	447
3	307	751	501	298	446	e220	522	1400	752	632	477	418
4	238	543	470	267	423	e210	545	866	567	627	441	421
5	139	469	435	230	396	e200	552	683	561	577	431	212
6	130	1260	422	397	e385	e195	1210	2810	500	392	417	333
7	142	746	e400	563	e360	e190	1110	2470	576	269	442	399
8	173	539	e380	691	e345	e180	888	1710	853	287	433	404
9	175	459	e360	648	e330	e175	757	1240	1390	275	437	229
10	153	421	e345	594	e315	e170	675	1270	2310	274	412	161
11	141	359	e330	503	e300	e165	606	4260	1350	385	666	216
12	136	358	e315	e475	e290	170	558	3400	1290	314	1190	397
13	131	408	e300	439	e285	167	519	2400	1770	267	1440	398
14	128	686	439	412	e280	170	498	1700	1700	279	1110	445
15	136	517	374	e400	375	175	504	1390	1920	454	806	723
16	133	455	340	510	469	209	1100	1880	2360	447	681	448
17	119	465	325	449	350	198	945	2990	2230	536	596	437
18	155	533	316	428	e325	210	739	2400	1910	568	555	408
19	140	456	e310	418	e300	264	624	2220	1610	531	524	416
20	141	1250	e305	e400	e280	219	555	1940	1240	562	525	555
21	145	2550	e300	393	601	231	502	1790	726	700	563	714
22	357	1270	356	398	1160	238	472	1610	621	678	599	654
23	342	951	330	408	679	213	430	1150	704	636	539	561
24	241	704	313	389	403	279	424	2810	915	600	551	639
25	213	620	487	382	320	513	402	2560	773	533	526	505
26	178	577	414	387	285	606	380	1970	625	521	511	681
27	165	549	369	501	e270	552	356	1900	714	521	514	759
28	187	950	348	454	e255	504	370	2100	608	525	526	610
29	194	873	539	421	---	517	381	1850	576	528	540	583
30	183	682	418	415	---	558	453	1390	591	511	600	533
31	181	---	363	425	---	776	---	780	---	479	535	---
TOTAL	5827	21710	12042	13322	11118	8944	18549	58949	33157	15165	18545	14155
MEAN	188	724	388	430	397	289	618	1902	1105	489	598	472
MAX	357	2550	594	691	1160	776	1210	4260	2360	700	1440	759
MIN	119	279	300	230	255	165	356	440	500	267	412	161
(+)	-22.6	+669	+138	-67.3	+68.8	+244	+566	+484	+65.0	-190	-165	-100
MEAN†	165	1393	526	363	466	533	1184	2386	1170	299	433	372
CFSM†	.44	3.69	1.39	.96	1.23	1.41	3.13	6.31	3.10	.79	1.15	.98
IN†	.51	4.12	1.60	1.11	1.28	1.63	3.49	7.28	3.46	.91	1.33	1.09

CAL YR 1988 TOTAL 155000 MEAN 423 MAX 2550 MIN 119 MEAN† 538 CFSM† 1.42 IN† 19.41
WTR YR 1989 TOTAL 231483 MEAN 634 MAX 4260 MIN 119 MEAN† 774 CFSM† 2.05 IN† 27.81

† Change in contents in Otis Reservoirs, 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, Massachusetts Department of Natural Resources, Division of Forests and Parks.

† Adjusted for diversion and change in contents.

e Estimated

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 upstream from bridge on Central Street, 0.2 mi downstream from Copper Mine Brook, and 6.5 mi upstream from mouth.
DRAINAGE AREA.--45.8 mi².

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

Water-quality records: Water years 1956, 1960, 1971-72.

REVISED RECORDS.--WSP 971: 1941-42. WSP 1111: 1947. WSP 1901: 1959-60. WDR-CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 197.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by Whigville Reservoir (see p. 152) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir, Whites Bridge wells, and Coppermine Brook.

AVERAGE DISCHARGE (adjusted for storage and diversion).--48 years, 86.8 ft³/s, 25.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s, Aug. 19, 1955, gage height, 13.22 ft, from high-water mark in gage house, from rating curve extended above 2,100 ft³/s, on basis of slope-area measurement at gage heights 7.3 and 13.22 ft; minimum, 6.5 ft³/s, Sept. 21, 22, 1941, gage height, 0.64 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1938 reached a stage of about 7.3 ft, from floodmarks, discharge 3,800 ft³/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 1000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 1	2030	1090	3.38	May 16	1900	1370	3.78
5	2030	1300	3.67	24	0630	*2340	*5.20
20	2130	1580	4.08	June 9	2400	1090	3.38
28	0230	1120	3.42	July 10	1900	1040	3.32
May 2	1030	1640	4.16	Aug. 11	1630	1560	4.04
6	0630	1890	4.53	13	1230	1320	3.70
11	0300	1850	4.47				

Minimum discharge, 13 ft³/s, Oct. 13, gage height, 0.98 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	271	73	e48	e60	e57	238	77	120	55	36	44
2	25	158	65	e45	e56	e54	130	847	123	52	34	43
3	25	48	60	e42	e58	e52	129	330	103	50	32	39
4	21	35	56	e40	e60	e50	136	163	89	49	32	39
5	19	171	50	e38	e52	e48	165	175	82	75	31	39
6	19	149	e47	e37	e48	e46	270	1040	107	60	33	37
7	22	53	e44	e36	e46	e44	184	376	166	52	37	37
8	46	38	e42	56	e44	e43	185	219	159	49	32	36
9	27	33	e40	47	e42	e42	144	164	401	44	29	35
10	24	32	e38	42	e40	41	121	392	553	216	29	34
11	21	31	e36	41	e38	41	102	1300	194	120	467	33
12	21	29	e35	e74	e36	46	91	644	139	61	518	32
13	20	117	e34	67	e35	41	86	377	207	50	595	32
14	20	59	41	47	e60	41	88	274	152	62	215	118
15	21	39	38	113	e70	44	153	223	230	52	135	183
16	20	33	36	66	e80	44	385	651	326	49	90	73
17	20	87	e35	53	e60	43	174	710	222	125	70	98
18	21	52	e33	48	e50	72	133	295	147	59	62	65
19	21	39	e32	52	e45	64	124	212	120	51	61	112
20	20	697	e31	45	e40	49	104	179	102	114	56	217
21	21	528	48	e42	e180	84	91	231	91	124	64	179
22	211	130	46	39	e200	60	89	176	90	68	55	126
23	42	89	44	e38	e130	50	79	142	167	59	58	143
24	31	73	118	e37	e100	116	75	1430	198	52	49	103
25	29	61	109	e36	e80	255	74	564	111	47	43	79
26	27	63	69	e60	e70	122	67	268	88	44	41	140
27	25	63	54	e85	e65	87	65	226	77	40	39	88
28	24	442	114	e70	e60	77	63	187	69	58	41	68
29	26	138	100	e60	---	75	74	153	66	40	76	60
30	23	90	67	e65	---	204	95	137	59	36	87	55
31	22	---	e56	e62	---	273	---	124	---	36	50	---
TOTAL	933	3848	1691	1631	1905	2365	3914	12286	4758	2049	3197	2387
MEAN	30.1	128	54.5	52.6	68.0	76.3	130	396	159	66.1	103	79.6
MAX	211	697	118	113	200	273	385	1430	553	216	595	217
MIN	19	29	31	36	35	41	63	77	59	36	29	32
(+)	+3.6	+20.2	+13.9	+7.2	+7.7	+10.3	+15.5	+7.4	+7.7	+5.4	+5.6	+5.9
MEAN+	33.7	148	68.4	59.8	75.7	86.6	146	403	167	71.5	109	85.5
CFSM+	.74	3.23	1.49	1.31	1.65	1.89	3.19	8.80	3.65	1.56	2.38	1.87
IN+	.85	3.60	1.72	1.51	1.72	2.18	3.56	10.14	4.07	1.80	2.74	2.09

CAL YR 1988 TOTAL 21302 MEAN 58.2 MAX 697 MIN 14 MEAN+ 67.7 CFSM+ 1.48 IN+ 20.12
WTR YR 1989 TOTAL 40964 MEAN 112 MAX 1430 MIN 19 MEAN+ 121 CFSM+ 2.64 IN+ 35.98

+ Change in contents in Whigville Reservoir and diversion for municipal supply of city of New Britain from Whigville Rese 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.

e Estimated

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 upstream from Farmington River.

DRAINAGE AREA.--57.2 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT												
18...	0930	31	371	7.11	18.0	16.0	1.1	4.1	42	1500	480	77
NOV												
07...	1000	73	158	6.67	12.0	11.0	3.0	5.8	53	3100	2300	41
DEC												
13...	1100	47	310	7.28	-2.0	2.0	5.6	11.2	81	3000	2600	69
JAN												
13...	1015	86	594	7.18	2.0	3.0	15	11.7	86	2800	14000	56
MAR												
17...	0945	58	318	7.40	16.0	7.5	2.5	10.4	86	230	270	66
APR												
18...	0845	173	164	7.31	17.0	12.0	1.8	7.3	68	200	K3	41
MAY												
11...	0915	1970	98	6.69	10.0	10.5	5.6	7.8	70	1000	3700	25
JUN												
15...	1215	227	154	7.02	17.0	15.0	3.8	6.5	64	300	1800	43
JUL												
12...	0845	86	184	6.79	27.0	20.5	4.7	5.6	62	650	1600	46
AUG												
10...	0850	39	300	7.21	21.5	17.5	3.0	5.1	53	500	1100	72
SEP												
02...	0810	51	275	7.32	24.5	20.0	2.1	6.5	72	240	2300	62

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS 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, 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)
OCT												
18...	--	23	4.8	--	31	38	--	225	0.31	18.8	237	4.77
NOV												
07...	17	12	2.7	24	17	16	8.5	114	0.15	22.5	118	0.790
DEC												
13...	--	21	4.1	--	24	31	--	167	0.23	21.2	208	2.42
JAN												
13...	20	17	3.2	36	21	150	8.4	321	0.44	74.5	366	1.25
MAR												
17...	--	20	3.8	--	26	36	--	178	0.24	27.9	191	1.86
APR												
18...	--	12	2.7	--	14	19	--	102	0.14	47.6	114	0.950
MAY												
11...	7	7.4	1.6	18	9.0	10	5.2	64	0.09	340	66	0.680
JUN												
15...	--	13	2.5	--	13	16	--	96	0.13	58.8	137	1.37
JUL												
12...	14	14	2.8	33	14	19	9.4	127	0.17	29.5	124	1.65
AUG												
10...	--	22	4.2	--	22	32	--	184	0.25	19.4	184	4.64
SEP												
02...	--	19	3.6	--	21	32	--	172	0.23	23.7	163	4.23

CONNECTICUT RIVER BASIN

97

01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
OCT 18...	0.330	5.10	3.60	1.1	4.7	9.8	1.90	1.40	1	1	5	2
NOV 07...	0.110	0.900	0.580	0.82	1.4	2.3	0.380	0.300	2	2	3	<1
DEC 13...	0.180	2.60	3.80	0.80	4.6	7.2	0.890	0.720	1	<1	7	2
JAN 13...	0.050	1.30	1.80	0.0	1.7	3.0	0.520	0.380	2	2	7	2
MAR 17...	0.040	1.90	2.60	0.50	3.1	5.0	0.600	0.480	1	<1	3	<1
APR 18...	0.050	1.00	0.260	0.54	0.80	1.8	0.280	0.200	1	<1	4	2
MAY 11...	0.020	0.700	0.090	1.2	1.3	2.0	0.150	0.100	2	<1	4	2
JUN 15...	0.030	1.40	0.090	0.51	0.60	2.0	0.200	0.150	1	<1	3	1
JUL 12...	0.050	1.70	0.180	0.52	0.70	2.4	0.340	0.250	2	<1	4	2
AUG 10...	0.060	4.70	0.140	0.96	1.1	5.8	0.980	0.980	1	<1	6	2
SEP 02...	0.070	4.30	0.190	0.61	0.80	5.1	0.670	0.590	1	<1	10	7

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	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...	21	14	500	--	<5	<5	--	25	24	70	61	7.1
NOV 07...	24	14	700	240	<5	<5	76	11	8	60	59	7.9
DEC 13...	27	8	910	--	8	<5	--	16	9	70	44	5.9
JAN 13...	29	10	1600	170	12	<5	160	14	7	90	69	8.1
MAR 17...	20	11	580	--	<5	<5	--	15	3	50	33	6.2
APR 18...	21	12	500	--	<5	<5	--	8	8	50	34	5.1
MAY 11...	16	10	560	190	3	1	30	5	4	30	31	4.2
JUN 15...	20	11	820	--	6	2	--	7	5	50	37	4.7
JUL 12...	26	12	1200	320	4	1	110	6	6	50	33	6.7
AUG 10...	16	14	470	--	2	<1	--	11	13	50	28	4.5
SEP 02...	18	10	470	--	3	<1	--	7	6	40	35	4.1

CONNECTICUT RIVER BASIN

01189120 FARMINGTON RIVER AT AVON, CT

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

DRAINAGE AREA.--465 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 08...	0930	897	97	6.90	14.5	10.0	2.2	10.0	89	380	780
JAN 18...	1015	749	155	7.08	5.0	3.0	1.9	13.4	99	1000	1000
MAY 12...	0910	5920	69	6.69	18.0	11.0	2.9	10.6	97	200	770
JUL 17...	0915	768	120	7.22	19.0	19.0	2.1	7.6	82	190	620

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINEITY 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, DIS- SOLVED (TONS PER AC-FT)
NOV 08...	28	13	7.6	2.2	15	19	12	6.3	71	0.10
JAN 18...	32	12	9.2	2.3	20	15	26	6.6	94	0.13
MAY 12...	18	9	4.7	1.4	9.0	9.0	8.1	5.0	46	0.06
JUL 17...	32	12	9.5	2.1	20	10	13	6.0	76	0.10

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- PHOROUS TOTAL (MG/L AS P)
NOV 08...	172	89	0.359	0.041	0.400	0.180	0.72	0.90	1.3	0.120
JAN 18...	190	104	--	<0.010	0.600	0.270	0.43	0.70	1.3	0.120
MAY 12...	735	47	--	<0.010	0.200	0.050	0.15	0.20	0.40	0.030
JUL 17...	158	93	0.690	0.010	0.700	0.080	0.32	0.40	1.1	0.100

DATE	PHOS- PHOROUS 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 08...	0.080	<1	<1	3	150	<5	33	2	19	6.8
JAN 18...	0.110	<1	<1	2	120	<5	40	1	12	4.5
MAY 12...	0.020	<1	<1	3	81	<1	21	2	7	4.4
JUL 17...	0.070	2	<1	3	130	<1	27	1	9	4.1

CONNECTICUT RIVER BASIN

99

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 downstream from bridge on State Highway 189 and 5.5 mi upstream from gage at Rainbow.

DRAINAGE AREA.--577 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1913 to August 1928 furnished by Farmington River Power Company. August 1928 to September 1939, October 1971 to current year.

REVISED RECORDS.--WSP 851: 1936. WSP 1301: 1937-39 (revised records published are included with those for "Farmington River at Rainbow, Conn."). WDR CT-76-1: 1972-75. 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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. 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.152), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs.

AVERAGE DISCHARGE (adjusted for storage and diversion).--18 years, 1,233 ft³/s, 29.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,900 ft³/s Sept. 22, 1938, gage height, 14.0 ft, from floodmarks, by computation of flow over dam 0.6 mi downstream; minimum, probably less than 30 ft³/s Mar. 1, 1938, river level below intake; minimum daily discharge, 128 ft³/s Feb. 7, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,350 ft³/s, May 12, gage height, 6.64 ft; minimum discharge, 170 ft³/s, Oct. 18, gage height, 0.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	348	1170	e610	705	e590	1840	855	1420	1020	695	722
2	440	1540	1020	e570	711	e570	1560	2030	1470	1030	692	650
3	417	1580	935	e540	738	e550	1200	3390	1660	1010	694	637
4	425	1070	865	e510	741	e540	1160	2340	1270	996	671	616
5	306	786	810	e490	682	e520	1170	1610	1160	982	642	574
6	221	1480	762	e470	e660	e500	1780	3290	1110	953	629	393
7	192	1560	e720	e450	e620	492	2200	4580	1200	731	627	560
8	230	1000	e680	e430	e590	472	1890	3660	1570	654	637	586
9	326	772	e640	773	e560	e460	1630	2600	2280	627	618	551
10	298	681	e600	e730	e530	e440	1400	2180	4500	596	615	379
11	260	643	e570	e680	e500	e420	1230	4930	3520	830	881	330
12	222	573	e550	e650	e480	e410	1100	6180	2440	867	2210	438
13	201	604	e530	e640	e465	391	1010	5550	2500	650	3030	553
14	191	1030	e510	e620	e450	375	970	3880	2740	579	2680	580
15	185	980	687	760	e580	388	945	2790	2930	666	1910	1210
16	189	768	643	904	807	425	1810	2700	3520	729	1400	1120
17	191	759	e600	792	724	442	2090	4010	3620	901	1110	867
18	175	918	e560	708	e640	434	1650	4240	3180	1010	963	784
19	200	819	e530	e680	e570	546	1320	3590	2670	894	871	722
20	206	1250	e500	e640	e520	531	1150	3100	2250	837	856	931
21	193	4210	515	e600	805	501	1020	2780	1690	1130	841	1380
22	566	3310	574	e580	1840	573	931	2700	1280	1190	911	1330
23	807	2080	e550	e560	1520	518	865	2170	1300	1020	835	1140
24	570	1490	e530	e540	950	490	817	4010	1810	928	787	1140
25	422	1190	844	e520	702	983	782	5470	1700	858	774	980
26	358	1050	e800	649	e660	1350	750	4480	1320	783	726	1020
27	309	981	707	769	e640	1150	696	3320	1220	764	703	1370
28	287	1490	661	e730	e610	975	683	3220	1140	806	702	1090
29	309	1900	928	695	---	930	685	3000	1030	792	727	944
30	308	1500	e800	687	---	976	799	2640	990	750	917	858
31	293	---	e700	709	---	1530	---	1900	---	737	836	---
TOTAL	9750	38362	21491	19686	20000	19472	37133	103195	60490	26320	31190	24455
MEAN	315	1279	693	635	714	628	1238	3329	2016	849	1006	815
MAX	807	4210	1170	904	1840	1530	2200	6180	4500	1190	3030	1380
MIN	175	348	500	430	450	375	683	855	990	579	615	330
(-)	-19.0	+689	+152	-60.1	+76.5	+254	+581	+492	+72.7	-185	-160	-94.4
MEAN†	296	1968	845	575	790	882	1819	3821	2089	664	846	721
CFSM†	.51	3.41	1.46	1.00	1.37	1.53	3.15	6.62	3.62	1.15	1.47	1.25
IN†	.59	3.80	1.68	1.15	1.43	1.76	3.51	7.63	4.04	1.33	1.70	1.40

CAL YR 1988 TOTAL 271319 MEAN 741 MAX 4210 MIN 175 MEAN† 866 CFSM† 1.50 IN† 20.42
WTR YR 1989 TOTAL 411544 MEAN 1128 MAX 6180 MIN 175 MEAN† 1277 CFSM† 2.21 IN† 30.02

† 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.

e Estimated

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to January 1972.

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 microsiemens Feb. 16, 1971; minimum recorded, 70 microsiemens 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
18...	1220	170	182	7.09	19.0	14.0	0.50	8.8	86	450	47
NOV											
08...	1300	981	100	6.78	17.5	10.0	2.1	9.9	88	500	850
DEC											
13...	1450	542	146	7.11	-5.0	2.5	1.3	14.0	103	480	600
JAN											
18...	1240	704	165	7.23	9.0	3.0	2.2	13.4	99	500	780
MAR											
17...	1305	443	161	7.70	21.0	7.5	1.0	12.9	106	62	40
APR											
18...	1155	1640	105	7.14	21.0	10.0	1.5	12.3	109	K12	20
MAY											
12...	1140	6310	69	6.71	18.0	11.0	3.5	10.3	94	260	1400
JUN											
15...	1415	2960	90	7.24	13.5	15.0	3.3	9.2	91	240	1500
JUL											
17...	1150	926	128	7.23	19.0	19.5	2.2	7.7	84	230	570
AUG											
10...	1215	619	118	7.13	25.5	20.5	1.0	8.1	89	46	29
SEP											
02...	1145	636	123	7.25	26.0	21.0	1.0	8.2	92	35	46

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD 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, DIS- SOLVED (TONS PER AC-FT)
OCT										
18...	47	--	14	3.0	--	16	18	--	107	0.14
NOV										
08...	30	14	8.3	2.2	16	17	12	6.7	66	0.09
DEC										
13...	41	--	12	2.6	--	16	15	--	86	0.12
JAN										
18...	34	12	10	2.3	22	15	26	7.1	98	0.13
MAR										
17...	43	--	13	2.6	--	15	19	--	93	0.13
APR										
18...	28	--	8.0	2.0	--	10	13	--	66	0.09
MAY										
12...	18	9	5.0	1.3	9.0	9.0	7.8	5.2	46	0.06
JUN										
15...	25	--	7.4	1.7	--	9.0	10	--	57	0.08
JUL										
17...	37	13	11	2.2	24	10	13	6.6	83	0.11
AUG										
10...	34	--	10	2.1	--	10	12	--	83	0.11
SEP										
02...	34	--	10	2.1	--	11	13	--	76	0.10

CONNECTICUT RIVER BASIN

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01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT										
18...	49.1	109	1.54	0.060	1.60	0.340	0.36	0.70	2.3	0.480
NOV										
08...	175	86	0.380	0.020	0.400	0.130	0.57	0.70	1.1	0.120
DEC										
13...	126	103	0.870	0.030	0.900	0.470	0.43	0.90	1.8	0.140
JAN										
18...	186	103	--	<0.010	0.700	0.310	0.49	0.80	1.5	0.110
MAR										
17...	111	99	0.880	0.020	0.900	0.420	0.58	1.0	1.9	0.170
APR										
18...	292	77	0.390	0.010	0.400	0.060	0.34	0.40	0.80	0.070
MAY										
12...	784	66	--	<0.010	0.200	0.050	0.25	0.30	0.50	0.050
JUN										
15...	455	75	0.390	0.010	0.400	0.080	0.82	0.90	1.3	0.050
JUL										
17...	207	80	0.780	0.020	0.800	0.070	0.43	0.50	1.3	0.110
AUG										
10...	139	83	0.790	0.010	0.800	0.070	0.43	0.50	1.3	0.120
SEP										
02...	137	66	0.880	0.020	0.900	0.080	0.32	0.40	1.3	0.110

DATE	PHOS- PHOROUS 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...	0.440	<1	1	2	--	<5	--	<1	--	3.8
NOV										
08...	0.090	<1	<1	3	160	6	47	3	11	6.9
DEC										
13...	0.120	<1	<1	2	--	<5	--	<1	6	3.8
JAN										
18...	0.090	<1	<1	2	120	<5	39	1	8	4.4
MAR										
17...	0.130	<1	<1	4	--	<5	--	<1	7	3.5
APR										
18...	0.040	<1	1	2	--	<5	--	2	14	4.8
MAY										
12...	0.020	<1	<1	3	95	<1	34	1	15	5.0
JUN										
15...	0.030	2	<1	2	--	<1	--	1	<3	4.5
JUL										
17...	0.070	<1	1	2	160	<1	28	1	5	4.1
AUG										
10...	0.100	<1	<1	4	--	<1	--	3	12	4.0
SEP										
02...	0.090	<1	<1	1	--	<1	--	1	4	3.8

CONNECTICUT RIVER BASIN

01189999 FARMINGTON RIVER AT RAINBOW FISHWAY AT RAINBOW, CT

LOCATION.--Lat 41°54'57", long 72°24'16", Hartford County, Hydrologic Unit 01080207, at Farmington River Power Company dam, 0.2 mi south of Rainbow, 0.4 mi upstream from discharge station, 0.4 mi upstream from Rainbow Brook, and 5.2 mi downstream from West Brook.

DRAINAGE AREA.--588 mi².

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 and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Fish ladder, maximum, 32.5°C July 21, 1977; minimum, 0.0°C on many days during the winter period. Farmington River, maximum, 29.0°C July 22, 1980, Aug. 15, 1988; minimum, 0.0°C on many days during the winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum, 26.5°C June 27; minimum, 5.5°C March 18, 23, 26. Farmington River, maximum, 25.0°C July 28, Aug. 6-8; minimum, 0.5°C on numerous days during the winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

TAKEN IN FISHWAY

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

TAKEN IN FISHWAY

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

CONNECTICUT RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

TAKEN IN TAILRACE

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

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 downstream from Podunk River and 1.2 mi upstream from Hockanum River.

DRAINAGE AREA.--10,487 mi².

WATER-STAGE RECORD

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

REVISED RECORDS.-- WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of reference gage is 0.55 ft below National Geodetic Vertical Datum of 1929. Datum of gage-height record is 10.00 ft 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, Mar. 20, 1936; maximum elevation, 37.05 ft, Mar. 21, 1936; minimum tidal elevation (1973-89), -0.91 ft, Aug. 12, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 85,200 ft³/s, May 8, elevation, 18.76 ft; minimum tidal elevation, -0.16 ft, Feb. 10.

ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	6.00	10.54	6.33	4.34	5.72	12.52	18.10	18.76	13.48	4.31	8.79	5.44
	Date	22	23	1	6	23	31	9	8	11	13	15	22
	Time	1130	0215	0015	1400	0545	0845	0130	1200	1100	2245	1600	2145
Minimum	Elevation	0.13	2.65	0.81	0.08	-0.16	0.61	3.87	3.95	2.41	0.76	0.87	0.48
	Date	31	12	27	21	10	3	30	1	29	25	29	4
	Time	1400	1145	0200	2230	1000	0615	1845	0715	1915	1515	0915	1215

NOTE.--Time shown is eastern standard.

CONNECTICUT RIVER BASIN

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01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATURATION)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 17...	1130	153	7.59	20.5	14.0	0.40	10.4	100	1300	89
NOV 09...	1415	90	7.25	13.0	10.0	2.4	10.9	96	420	230
DEC 19...	1230	126	7.30	3.5	2.0	1.5	13.8	99	1500	140
JAN 09...	1330	143	7.39	5.0	2.0	1.6	13.0	93	620	780
MAR 13...	1200	143	7.35	3.0	2.0	1.0	13.2	94	180	140
APR 10...	0915	74	6.97	10.0	4.5	14	13.8	106	150	550
MAY 08...	1010	69	7.05	14.0	10.5	14	11.4	102	750	900
JUN 13...	1055	77	7.12	16.0	17.5	1.8	9.0	94	130	320
JUL 10...	1115	131	7.00	27.5	23.5	1.7	6.5	77	130	84
AUG 07...	1200	136	7.57	28.0	27.5	1.5	7.1	91	84	280
SEP 06...	1230	142	7.47	23.0	21.5	1.1	8.4	94	1200	21

DATE	HARDNESS TOTAL (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, DIS-SOLVED (TONS PER AC-FT)
OCT 17...	44	--	14	2.3	--	16	13	--	97	0.13
NOV 09...	31	10	9.5	1.7	21	13	8.0	5.7	62	0.08
DEC 19...	35	--	11	1.9	--	16	11	--	74	0.10
JAN 09...	42	12	13	2.2	30	14	14	7.1	88	0.12
MAR 13...	39	--	12	2.1	--	16	17	--	79	0.11
APR 10...	23	--	7.3	1.2	--	11	7.6	--	56	0.08
MAY 08...	21	8	6.4	1.1	13	8.0	6.3	4.8	50	0.07
JUN 13...	27	--	8.5	1.5	--	9.0	9.0	--	56	0.08
JUL 10...	41	11	13	2.0	30	10	12	5.2	79	0.11
AUG 07...	43	--	14	2.0	--	7.0	13	--	85	0.11
SEP 06...	44	--	14	2.1	--	14	12	--	78	0.12

CONNECTICUT RIVER BASIN

01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SOLIDS, RESIDUE AT 105 DEG. C. TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)
OCT 17...	97	0.670	0.030	0.700	0.110	0.39	0.50	1.2	0.100	0.080
NOV 09...	84	0.280	0.020	0.300	0.070	0.33	0.40	0.70	0.040	0.030
DEC 19...	76	0.590	0.010	0.600	0.160	0.24	0.40	1.0	0.070	0.060
JAN 09...	87	0.590	0.010	0.600	0.290	0.51	0.80	1.4	0.060	0.050
MAR 13...	84	0.680	0.020	0.700	0.240	0.36	0.60	1.3	0.080	0.060
APR 10...	94	--	<0.010	0.400	0.070	0.53	0.60	1.0	0.120	0.010
MAY 08...	102	--	<0.010	0.300	0.050	0.35	0.40	0.70	0.040	0.020
JUN 13...	176	--	<0.010	0.300	0.060	0.24	0.30	0.60	0.040	0.030
JUL 10...	88	0.480	0.020	0.500	0.080	0.62	0.70	1.2	0.050	0.020
AUG 07...	91	--	<0.010	0.400	<0.010	--	0.40	0.80	0.060	0.060
SEP 06...	84	0.370	0.030	0.400	0.080	0.22	0.30	0.70	0.030	0.030

DATE	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 17...	<1	1	2	--	<5	--	<1	7	5.2
NOV 09...	<1	<1	2	88	<5	10	1	<3	5.3
DEC 19...	<1	<1	2	--	<5	--	2	<3	3.9
JAN 09...	<1	<1	2	100	<5	33	<1	8	4.1
MAR 13...	<1	1	2	--	<5	--	3	7	4.0
APR 10...	<1	1	2	--	<5	--	2	5	6.3
MAY 08...	1	<1	2	94	<1	12	2	<3	5.7
JUN 13...	<1	<1	2	--	<1	--	<1	<3	5.0
JUL 10...	1	1	7	73	3	12	2	14	3.9
AUG 07...	<1	<1	2	--	<1	--	2	4	4.0
SEP 06...	<1	<1	3	--	1	--	2	<3	4.1

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.

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 above National Geodetic Vertical Datum of 1929 (revised). Prior to October 1, 1981, datum in error by +0.90 ft, original levels by Department of Engineering, city of Hartford.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by Shenipsit Lake, small reservoirs, and industrial plants.

AVERAGE DISCHARGE (adjusted for storage).--45 years (1919-21, 1928-71) 112 ft³/s, 20.70 in/yr; (unadjusted).--58 years (1919-21, 1928-71, 1977-89) 115 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,160 ft³/s, Sept. 21, 1938, gage height, 13.78 ft, 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, 77-85) 1.2 ft³/s, Sept. 2, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 970 ft³/s, Aug. 13, gage height, 6.71 ft; minimum daily, 22 ft³/s, Nov. 11, 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	102	94	70	69	65	219	118	157	108	73	81
2	39	226	86	70	64	64	141	321	226	105	81	90
3	59	133	80	70	69	68	130	246	221	101	76	85
4	41	74	75	67	e66	67	130	218	150	100	70	85
5	38	65	72	e64	e63	69	127	191	138	119	67	66
6	37	98	e70	e62	e61	73	182	381	166	117	67	62
7	38	68	e69	e60	e59	65	194	282	192	109	68	63
8	71	59	e67	65	e57	61	252	215	228	107	68	64
9	52	45	e65	64	e55	63	190	191	327	101	66	65
10	44	25	e64	63	e53	e60	159	220	524	134	64	65
11	41	21	e62	62	e52	e59	142	509	335	125	341	66
12	39	21	e61	69	e51	e58	136	438	267	100	562	69
13	38	62	e60	69	e50	60	134	341	258	94	744	70
14	37	63	e59	64	60	61	132	280	232	88	481	75
15	38	63	71	81	69	65	146	239	295	85	250	196
16	38	52	66	72	77	61	285	232	380	81	188	111
17	37	128	62	71	70	60	205	220	306	153	165	141
18	41	103	61	70	65	82	189	190	259	106	140	113
19	39	70	e59	71	e61	91	188	165	226	97	129	158
20	38	255	63	76	e58	71	180	151	197	112	156	139
21	37	451	70	e73	169	105	171	143	176	174	123	195
22	108	179	71	e70	139	86	162	138	167	115	110	156
23	82	123	68	e66	124	74	151	131	158	104	94	171
24	51	101	95	63	e110	95	148	584	193	98	100	155
25	46	88	119	61	e100	205	129	417	152	92	98	115
26	43	80	89	66	e90	118	87	301	141	88	96	172
27	42	78	73	73	e80	97	96	277	129	82	93	115
28	45	217	92	68	64	90	137	240	117	103	91	110
29	45	150	84	65	---	87	109	194	114	79	94	117
30	42	108	58	76	---	137	135	170	110	87	118	114
31	39	---	72	72	---	248	---	157	---	79	88	---
TOTAL	1421	3308	2257	2113	2105	2665	4786	7900	6541	3243	4961	3284
MEAN	45.8	110	72.8	68.2	75.2	86.0	160	255	218	105	160	109
MAX	108	451	119	81	169	248	285	584	524	174	744	196
MIN	36	21	58	60	50	58	87	118	110	79	64	62

CAL YR 1988 TOTAL 31741 MEAN 86.7 MAX 451 MIN 21
WTR YR 1989 TOTAL 44584 MEAN 122 MAX 744 MIN 21

e Estimated

CONNECTICUT RIVER BASIN

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 upstream from mouth, and 4.4 mi downstream from discharge station 01192500.

DRAINAGE AREA.--76.1 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (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										
20...	1400	420	7.32	12.0	14.0	2.0	7.7	74	14000	14000
NOV										
16...	1315	340	7.31	10.0	11.0	8.3	8.4	75	13000	3400
DEC										
20...	1230	412	7.42	11.0	5.5	3.5	12.6	99	22000	98
JAN										
20...	0915	340	7.35	10.0	7.0	6.4	10.7	88	--	--
MAR										
20...	1000	341	7.31	7.0	8.0	10	10.5	87	1200	600
APR										
10...	1030	240	7.02	10.0	10.0	4.5	12.2	107	5700	3800
MAY										
17...	1215	235	7.03	23.0	16.0	4.9	6.8	68	80	160
JUN										
13...	1230	180	6.98	15.5	19.0	4.8	5.7	62	150	1100
JUL										
18...	0830	270	6.96	21.0	20.0	6.2	5.1	56	500	75
AUG										
11...	1455	247	7.21	15.0	19.5	47	7.0	75	8000	14000
SEP										
06...	1310	298	7.20	24.0	21.0	10	6.0	66	50	30

DATE	HARD- NESS TOTAL (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, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT										
20...	93	29	4.9	--	38	42	--	225	0.31	264
NOV										
16...	83	26	4.4	59	33	35	11	199	0.27	220
DEC										
20...	90	28	4.9	--	32	40	--	198	0.27	230
JAN										
20...	24	6.5	1.9	65	29	40	10	187	0.25	199
MAR										
20...	74	23	4.1	--	30	42	--	181	0.25	212
APR										
10...	56	17	3.2	--	23	28	--	134	0.18	155
MAY										
17...	56	17	3.3	28	19	28	7.3	123	0.17	157
JUN										
13...	53	16	3.2	--	17	24	--	124	0.17	150
JUL										
18...	64	20	3.3	35	21	28	9.4	157	0.21	172
AUG										
11...	64	20	3.3	--	22	25	--	159	0.22	151
SEP										
06...	68	21	3.8	--	26	34	--	184	0.25	184

CONNECTICUT RIVER BASIN

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01192516 HOCKANUM RIVER AT EAST HARTFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NITRATE (MG/L AS N)	NITRO- GEN, NITRITE (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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)
OCT 20...	2.33	0.170	2.50	7.00	1.0	8.0	10	1.40	1.20
NOV 16...	1.54	0.060	1.60	5.40	1.0	6.4	8.0	0.760	0.630
DEC 20...	1.78	0.020	1.80	6.00	0.20	6.2	8.0	0.840	0.750
JAN 20...	1.58	0.020	1.60	1.60	3.9	5.5	7.1	0.540	0.400
MAR 20...	1.47	0.030	1.50	3.70	0.60	4.3	5.8	0.440	0.320
APR 10...	1.26	0.040	1.30	2.20	0.30	2.5	3.8	0.410	0.330
MAY 17...	1.03	0.070	1.10	1.20	0.70	1.9	3.0	0.300	0.270
JUN 13...	1.18	0.120	1.30	0.800	0.50	1.3	2.6	0.310	0.250
JUL 18...	1.81	0.190	2.00	1.80	1.0	2.8	4.8	0.550	0.290
AUG 11...	1.98	0.220	2.20	1.60	1.4	3.0	5.2	0.930	0.320
SEP 06...	1.98	0.220	2.20	3.00	--	--	--	0.510	0.390

DATE	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...	<1	<1	1	--	<5	--	3	29	7.4
NOV 16...	<1	<1	9	130	<5	170	4	20	7.6
DEC 20...	<1	<1	6	--	<5	--	10	22	6.8
JAN 20...	<1	1	5	110	<5	27	2	<3	7.8
MAR 20...	<1	1	4	--	<5	--	1	14	7.6
APR 10...	<1	<1	4	--	<5	--	4	28	5.7
MAY 17...	<1	1	6	240	2	220	1	25	6.0
JUN 13...	<1	<1	5	--	2	--	2	7	7.0
JUL 18...	<1	1	2	110	1	170	<1	14	6.7
AUG 11...	<1	<1	3	--	2	--	1	19	8.6
SEP 06...	<1	<1	4	--	1	--	3	13	6.6

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 northeast of Middlefield, and 0.75 mi upstream from Wadsworth Falls.

DRAINAGE AREA.--29.8 mi².

PERIOD OF RECORD.--Discharge: October 1961 to December 1980, published as "at Rockfall", December 1980 to current year.
Water-quality records: Water years 1981-88.

REVISED RECORDS.-- WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 134.17 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 2, 1980, water-stage recorder at site 2.0 mi downstream at datum 73.01 ft lower.

REMARKS.--Records good except for periods of estimated record, which are fair. Several water temperature temperature were made during the year. Infrequent regulation from Beseck Lake. Release from Beseck Lake Sept. 5-14, 1989, by Connecticut Department of Environmental Protection, for repair of gates.

AVERAGE DISCHARGE.--9 years, 59.4 ft³/s, 27.06 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 405 ft³/s, June 10, gage height, 7.88 ft; minimum, 3.5 ft³/s, Oct. 1, gage height, 4.42 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	26	120	43	52	58	173	69	72	27	23	32
2	4.4	86	98	40	49	55	161	195	78	24	22	25
3	9.3	111	82	e36	47	53	129	283	86	22	21	21
4	10	102	71	e33	45	51	115	219	88	20	20	18
5	10	77	65	e32	39	50	108	167	83	23	20	25
6	11	58	60	e30	36	e46	112	221	71	38	19	46
7	11	47	e55	e29	e34	e42	123	215	72	41	19	45
8	20	40	e50	27	e32	e39	164	166	170	37	13	44
9	24	36	43	40	e28	37	179	129	242	28	7.0	43
10	25	32	39	37	e27	37	159	111	388	31	6.5	42
11	21	30	36	35	26	38	127	243	311	70	83	41
12	14	29	33	34	25	40	100	287	223	74	249	40
13	11	35	e28	48	26	38	84	239	186	65	360	39
14	7.4	59	23	45	40	39	76	189	161	50	322	34
15	7.0	63	e23	57	64	40	72	151	150	40	232	40
16	6.8	53	e22	72	74	41	137	127	179	34	163	42
17	8.0	60	e22	57	59	39	156	156	172	55	116	52
18	11	84	e22	49	47	44	127	155	156	63	86	51
19	13	83	e21	e45	39	62	99	127	126	58	66	51
20	14	130	26	e43	36	57	81	100	99	47	54	50
21	13	320	38	e40	74	65	70	82	78	39	47	51
22	33	344	e36	e40	181	75	63	74	64	34	41	52
23	36	256	e35	38	210	63	57	64	56	31	36	49
24	37	185	49	38	180	58	53	247	62	26	34	52
25	29	138	86	39	144	131	50	342	60	23	31	48
26	21	105	83	42	88	152	47	271	52	20	28	51
27	16	83	58	64	76	125	45	210	43	18	26	47
28	13	104	51	63	60	91	43	177	37	22	24	41
29	13	138	62	54	---	71	41	137	33	25	25	35
30	12	139	60	52	---	70	61	104	30	24	41	28
31	11	---	49	53	---	124	---	84	---	23	38	---
TOTAL	475.6	3053	1546	1355	1838	1931	3012	5341	3628	1132	2272.5	1235
MEAN	15.3	102	49.9	43.7	65.6	62.3	100	172	121	36.5	73.3	†32.9
MAX	37	344	120	72	210	152	179	342	388	74	360	52
MIN	3.7	26	21	27	25	37	41	64	30	18	6.5	18
CFSM	.51	3.41	1.67	1.47	2.20	2.09	3.37	5.78	4.06	1.23	2.46	†1.10
IN.	.59	3.81	1.93	1.69	2.29	2.41	3.76	6.67	4.53	1.41	2.84	†1.23

CAL YR 1988 TOTAL 14288.88 MEAN 39.0 MAX 344 MIN .38 CFSM 1.31 IN 17.84
WTR YR 1989 TOTAL 26819.1 MEAN† 72.8 MAX 388 MIN 3.7 CFSM† 2.44 IN† 33.17

† Adjusted for release from Beseck Lake (September only month affected).
e Estimated

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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 downstream from Mattabeset River and 0.6 mi upstream from Sumner Brook.

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

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAI, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAI, KF AGAR (COLS. PER 100 ML)
OCT										
04...	1145	154	7.70	15.0	18.0	2.9	9.4	100	--	--
17...	0840	146	7.25	16.0	12.5	1.0	13.7	127	3900	240
NOV										
09...	1300	92	7.26	13.0	10.0	2.4	10.8	95	1200	830
DEC										
19...	1030	140	7.24	7.0	2.0	1.9	13.1	94	3600	650
JAN										
09...	0950	141	7.20	6.0	2.0	1.5	12.9	92	920	980
24...	1530	162	7.38	12.5	1.5	--	13.6	96	--	--
FEB										
06...	1655	172	7.17	3.5	2.0	--	13.0	94	--	--
21...	1640	177	7.26	13.0	3.0	--	13.5	101	--	--
MAR										
13...	0940	158	8.26	1.0	3.0	2.0	12.8	94	1800	82
27...	1155	141	7.19	17.0	6.5	2.9	11.3	90	--	--
APR										
10...	0830	79	6.88	7.5	4.5	15	13.1	100	550	700
24...	1425	98	7.35	17.0	9.5	3.9	11.2	98	--	--
MAY										
08...	0845	73	6.92	10.0	11.0	23	10.8	98	2300	65
30...	1105	112	7.48	23.0	18.0	3.4	8.5	89	--	--
JUN										
12...	1330	94	7.28	26.5	17.5	5.8	9.2	95	300	110
26...	1150	114	7.10	29.0	23.0	3.9	7.2	84	--	--
JUL										
10...	0910	130	7.42	24.0	25.5	2.3	8.2	101	36	22
24...	1115	135	7.49	29.0	25.0	2.0	7.6	91	--	--
AUG										
07...	1015	150	7.90	27.5	28.0	4.9	8.3	107	K14	36
23...	1035	130	7.36	28.0	24.5	2.4	6.9	83	--	--
SEP										
06...	1110	159	7.67	22.0	22.0	2.5	8.7	98	160	K13
20...	1125	148	7.40	23.0	20.0	2.0	6.9	75	--	--

[illegible]

CONNECTICUT RIVER BASIN

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT										
04...	--	--	--	0.400	0.430	0.260	0.270	0.54	0.80	1.2
17...	93	0.570	0.030	0.600	0.530	0.380	0.340	0.32	0.70	1.3
NOV										
09...	66	0.290	0.010	0.300	--	0.120	--	0.38	0.50	0.80
DEC										
19...	90	0.490	0.010	0.500	--	0.450	--	0.15	0.60	1.1
JAN										
09...	89	0.490	0.010	0.500	0.550	0.410	0.420	0.29	0.70	1.2
24...	--	--	--	0.600	0.610	0.510	0.510	0.29	0.80	1.4
FEB										
06...	--	--	--	0.600	0.530	0.490	0.480	0.21	0.70	1.3
21...	--	--	--	0.700	0.670	0.530	0.520	0.87	1.4	2.1
MAR										
13...	94	0.680	0.020	0.700	0.710	0.590	0.530	0.21	0.80	1.5
27...	--	--	--	0.600	0.570	0.280	0.290	0.42	0.70	1.3
APR										
10...	86	--	<0.010	0.400	0.410	0.090	0.090	0.61	0.70	1.1
24...	--	--	--	0.400	0.400	0.150	0.130	0.25	0.40	0.80
MAY										
08...	118	0.290	0.010	0.300	0.280	0.050	0.050	0.55	0.60	0.90
30...	--	--	--	0.400	0.430	0.130	0.140	0.47	0.60	1.0
JUN										
12...	96	0.290	0.010	0.300	0.300	0.080	0.080	0.32	0.40	0.70
26...	--	--	--	0.400	0.500	0.150	0.150	0.25	0.40	0.80
JUL										
10...	89	0.480	0.020	0.500	0.520	0.030	0.030	0.47	0.50	1.0
24...	--	--	--	0.600	0.500	0.140	0.110	0.26	0.40	1.0
AUG										
07...	93	0.580	0.020	0.600	0.540	<0.010	0.010	--	0.60	1.2
23...	--	--	--	0.500	0.460	0.130	0.130	0.37	0.50	1.0
SEP										
06...	85	0.630	0.070	0.700	0.790	0.130	0.130	0.47	0.60	1.3
20...	--	--	--	0.500	0.590	0.240	0.230	0.36	0.60	1.1

DATE	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, 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)
OCT										
04...	0.080	0.060	0.060	0.060	--	--	--	--	--	--
17...	0.120	0.090	0.100	0.080	1	1	1	1	5	2
NOV										
09...	0.050	0.040	--	--	1	<1	<1	<1	5	3
DEC										
19...	0.090	0.070	--	--	<1	<1	3	<1	3	2
JAN										
09...	0.070	0.060	--	0.050	<1	<1	2	<1	3	3
24...	0.100	0.080	0.070	0.070	--	--	--	--	--	--
FEB										
06...	0.080	0.060	0.050	0.040	--	--	--	--	--	--
21...	0.130	0.080	0.070	0.060	--	--	--	--	--	--
MAR										
13...	0.110	0.080	0.090	0.080	1	<1	1	1	2	3
27...	0.090	0.050	0.030	0.020	--	--	--	--	--	--
APR										
10...	0.100	0.020	0.020	0.020	1	<1	3	1	7	3
24...	0.060	0.040	0.020	0.020	--	--	--	--	--	--
MAY										
08...	0.060	0.020	0.010	0.010	<1	<1	4	<1	5	2
30...	0.070	0.040	0.020	0.020	--	--	--	--	--	--
JUN										
12...	0.030	0.020	0.020	0.020	<1	<1	3	<1	5	1
26...	0.040	0.040	0.030	0.030	--	--	--	--	--	--
JUL										
10...	0.050	0.010	0.020	<0.010	<1	<1	1	1	3	2
24...	0.080	0.050	0.040	0.030	--	--	--	--	--	--
AUG										
07...	0.090	0.030	0.020	0.010	<1	<1	1	<1	6	3
23...	0.070	0.040	0.030	0.030	--	--	--	--	--	--
SEP										
06...	0.080	0.060	0.080	0.060	<1	1	<1	<1	7	3
20...	0.090	0.070	0.070	0.060	--	--	--	--	--	--

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT

LOCATION.--Lat 41°33'40", long 72°36'43", Middlesex County, Hydrologic Unit 01080205, on right bank 0.5 mi upstream from Bodkin Rock, 2 mi downstream from Middletown, and 29.5 mi, upstream from mouth.

DRAINAGE AREA.--10,887 mi².

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.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929. Auxiliary digital water-stage recorder at same datum on right bank 3.8 mi downstream, 120 ft downstream from pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL).

REMARKS.--No volume record Jan. 30 to Jan. 31. Volume records good except those for periods of missing record, which are poor. Flow affected by ocean tides below a stage of 18.00 ft and by storage in major reservoirs having a combined capacity of about 117 billion cubic feet. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186,000 ft³/s June 2, 1984, gage height, 31.27 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 267,000 ft³/s Mar. 21, 1936, gage height, 38.2 ft, from rating curve extended above 125,000 ft³/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, 85,100 ft³/s May 9, gage height, 20.39 ft.

OCTOBER 1988 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	57 (0200)	-89 (0545)	352 (1315)	-180 (1815)	323
2	111 (0245)	-91 (0700)	334 (1430)	-159 (1915)	253
3	184 (0400)	-86 (0800)	319 (1530)	-184 (2045)	157
4	222 (0430)	-149 (0915)	337 (1645)	-178 (2200)	87
5	283 (0530)	-135 (1000)	412 (1800)	-131 (2230)	69
6	383 (0645)	-96 (1030)	386 (1845)	-137 (2315)	10
7	327 (0700)	-168 (1145)	353 (1915)	-192	
8	-6 (0030)	329 (0745)	-190 (1230)	376 (1945)	-174
9	-20 (0100)	398 (0815)	-168 (1300)	449 (2100)	-101
10	-20 (0100)	381 (0845)	-178 (1330)	363 (2100)	-111
11	-59 (0200)	326 (0845)	-181 (1345)	432 (2200)	-57
12	-76 (0215)	364 (0945)	-171 (1430)	430 (2300)	-18
13	-83 (0245)	345 (0)	-124 (1500)	416 (2330)	-3
14	-93 (0330)	324 (1045)	-166 (1530)	485	
15	11 (0100)	-40 (0345)	317 (1130)	-186 (1630)	412
16	16 (0100)	-109 (0500)	312 (1215)	-210 (1730)	346
17	48 (0145)	-129 (0615)	293 (1315)	-204 (1830)	299
18	98 (0230)	-137 (0715)	303 (1415)	-188 (1930)	257
19	202 (0415)	-102 (0815)	338 (1530)	-170 (2045)	185
20	265 (0500)	-97 (0900)	416 (1715)	-147 (2130)	118
21	309 (0545)	-143 (1015)	378 (1745)	-206 (2315)	26
22	260 (0430)	-391 (1030)	895		
23	498 (0730)	-86 (1115)	633 (2100)	-8 (2245)	19
24	518 (0800)	-153 (1230)	640 (2130)	-53	
25	-4 (0030)	505 (0900)	-139 (1300)	653 (2245)	-14
26	-22 (0130)	474 (0945)	-162 (1400)	678 (2400)	0
27	-6 (0130)	494 (1045)	-126 (1445)	586	
28	0 (0015)	-40 (0300)	427 (1115)	-157 (1545)	549
29	38 (0200)	-2 (0315)	440 (1215)	-111 (1630)	445
30	51 (0145)	-54 (0500)	359 (1315)	-144 (1800)	324
31	84 (0230)	-98 (0645)	269 (1345)	-166 (1900)	244

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

NOVEMBER 1988 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	114 (0300)	-126 (0745)	304 (1500)	-243 (2115)	133
2	1568				
3	1681				
4	1750				
5	1539				
6	1704				
7	1889				
8	2227				
9	1794				
10	1700				
11	1558				
12	576 (1115)	-34 (1400)	612		
13	576 (1145)	-32 (1500)	619		
14	1381				
15	1552				
16	1599				
17	1756				
18	1624				
19	1327				
20	451 (0730)	-1 (0815)	1065		
21	2708				
22	3424				
23	3551				
24	3077				
25	2526				
26	2067				
27	1841				
28	1872				
29	2051				
30	2078				

DECEMBER 1988 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	2071				
2	1872				
3	1716				
4	1572				
5	1372				
6	1454				
7	1328				
8	511 (0900)	-38 (1145)	670		
9	523 (0930)	-49 (1230)	689		
10	572 (1015)	-34 (1300)	692		
11	578 (1115)	-52 (1415)	519		
12	5 (0100)	-2 (0145)	403 (1115)	-143 (1530)	493
13	15 (0100)	-18 (0330)	431 (1200)	-121 (1615)	468
14	22 (0100)	-57 (0415)	447 (1300)	-97 (1715)	423
15	67 (0145)	-56 (0530)	582 (1515)	-21 (1700)	371
16	205 (0445)	-1 (0515)	390 (1530)	-57 (1915)	229
17	157 (0330)	-97 (0800)	443 (1630)	-58 (2000)	209
18	216 (0415)	-155 (0900)	533 (1830)	-12 (2030)	158
19	315 (0600)	-69 (0930)	469 (1900)	-32 (2145)	80
20	343 (0630)	-86 (1030)	606 (2130)	0 (2145)	56
21	430 (0800)	-72 (1115)	561 (2145)	-1 (2300)	13
22	420 (0830)	-98 (1230)	481 (2145)	-22	
23	-1 (0015)	428 (0900)	-137 (1330)	591	
24	551 (1015)	-87 (1345)	543 (2315)	-8	
25	-22 (0145)	537 (1130)	-45 (1415)	486 (2400)	0
26	-26 (0230)	404 (1145)	-79 (1515)	380	
27	5 (0030)	-46 (0415)	337 (1215)	-69 (1545)	504
28	40 (0130)	-21 (0345)	1061		
29	693 (1445)	-17 (1715)	339		
30	118 (0345)	-3 (0500)	510 (1600)	-1 (1630)	353
31	189 (0430)	-1 (0515)	886		

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JANUARY 1989 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	184 (0430)	-44 (0730)	729		
2	192 (0430)	-97 (0845)	710		
3	272 (0530)	-84 (0930)	475 (1845)	-43 (2200)	75
4	333 (0645)	-85 (1030)	569		
5	213 (0630)	-163 (1200)	315 (2000)	-51 (2345)	0
6	385 (0800)	-59 (1145)	585 (2200)	-11 (2345)	1
7	415 (0815)	-143 (1300)	537 (2230)	-12	
8	-3 (0045)	407 (0915)	-140 (1400)	531 (2315)	-10
9	-22 (0130)	416 (1015)	-102 (1415)	445 (2345)	-4
10	-47 (0245)	388 (1115)	-88 (1500)	506	
11	2 (0030)	-38 (0315)	506 (1300)	-30 (1530)	454
12	18 (0100)	-30 (0400)	440 (1245)	-70 (1630)	461
13	45 (0130)	-73 (0500)	584 (1545)	-1 (1645)	310
14	80 (0230)	-59 (0630)	381 (1500)	-48 (1830)	270
15	129 (0315)	-121 (0730)	761		
16	213 (0445)	-70 (0830)	461 (1845)	-5 (2015)	153
17	263 (0530)	-79 (0930)	654		
18	355 (0645)	-78 (1045)	483 (2015)	-14 (2215)	39
19	370 (0715)	-105 (1130)	538 (2130)	-3 (2300)	16
20	439 (0815)	-101 (1215)	549 (2215)	-8 (2330)	3
21	875 (2200)	-26			
22	-13 (0115)	330 (0930)	-116 (1345)	399 (2245)	-16
23	-33 (0200)	363 (1015)	-101 (1430)	417 (2300)	-14
24	-76 (0300)	397 (1115)	-82 (1445)	454 (2345)	-1
25	-73 (0330)	430 (1215)	-62 (1530)	409	
26	3 (0030)	-72 (0415)	401 (1230)	-63 (1615)	427
27	27 (0115)	-61 (0430)	421 (1345)	-33 (1615)	351
28	57 (0200)	-43 (0515)	400 (1400)	-47 (1700)	359
29	93 (0245)	-33 (0545)	453 (1600)	-6 (1745)	268

FEBRUARY 1989 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	252 (0530)	-33 (0815)	470 (1915)	-8 (2100)	115
2	284 (0600)	-74 (0945)	451 (1915)	-57 (2230)	50
3	353 (0645)	-92 (1045)	519 (2030)	-32 (2245)	25
4	384 (0745)	-90 (1130)	506 (2100)	-31 (2330)	7
5	461 (0830)	-94 (1230)	514 (2130)	-47	
6	-9 (0045)	395 (0845)	-191 (1345)	430 (2215)	-43
7	-40 (0145)	420 (0945)	-142 (1415)	480 (2245)	-21
8	-52 (0215)	467 (1045)	-128 (1500)	473 (2345)	-5
9	-76 (0245)	464 (1245)	-59 (1530)	306 (2330)	-2
10	-133 (0445)	344 (1230)	-91 (1615)	401	
11	16 (0045)	-107 (0500)	467 (1415)	-34 (1645)	346
12	46 (0130)	-127 (0615)	433 (1500)	-49 (1800)	255
13	105 (0245)	-124 (0730)	356 (1545)	-73 (1945)	208
14	156 (0345)	-135 (0830)	703		
15	268 (0545)	-61 (0915)	432 (1845)	-20 (2115)	95
16	338 (0700)	-43 (1000)	501 (2030)	-2 (2130)	59
17	360 (0745)	-67 (1130)	406 (2045)	-27 (2300)	16
18	374 (0815)	-92 (1215)	382 (2045)	-71	
19	-3 (0030)	388 (0845)	-129 (1300)	397 (2130)	-64
20	-16 (0100)	400 (0930)	-123 (1330)	403 (2200)	-50
21	-50 (0200)	361 (0945)	-171 (1445)	483 (2330)	-1
22	-4 (0045)	1635			
23	1869				
24	1341				
25	5 (0030)	-55 (0315)	1198		
26	48 (0145)	-15 (0330)	1199		
27	61 (0145)	-57 (0430)	900		
28	67 (0200)	-57 (0530)	540 (1630)	0 (1700)	307

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MARCH 1989 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	145 (0330)	-38 (0630)	751			
2	169 (0430)	-39 (0715)	436 (1800)	-18 (2000)	146	
3	229 (0530)	-80 (0930)	388 (1815)	-88 (2215)	70	
4	319 (0615)	-99 (1015)	486 (1915)	-76 (2245)	39	
5	379 (0700)	-146 (1130)	463 (2000)	-96 (2345)	7	
6	428 (0800)	-124 (1215)	426 (2030)	-121		
7	-12 (0045)	427 (0830)	-145 (1300)	442 (2100)	-103	
8	-54 (0130)	495 (0915)	-244 (1400)	456 (2130)	-132	
9	-104 (0215)	564 (1030)	-212 (1445)	478 (2215)	-96	
10	-180 (0315)	523 (1115)	-200 (1530)	442 (2300)	-44	
11	-264 (0415)	512 (1200)	-194 (1630)	435 (2345)	-1	
12	1 (0015)	-161 (0500)	394 (1345)	-76 (1715)	287	
13	25 (0115)	-150 (0615)	340 (1415)	-94 (1815)	246	
14	61 (0215)	-133 (0645)	393 (1545)	-53 (1915)	186	
15	123 (0330)	-129 (0815)	412 (1730)	-42 (2045)	128	
16	199 (0500)	-63 (0900)	400 (1845)	-25 (2115)	82	
17	289 (0645)	-29 (0915)	577			
18	1111					
19	970 (2100)	-33 (2345)	3			
20	460 (0930)	-25 (1145)	486 (2145)	-22		
21	-2 (0030)	450 (1000)	-13 (1145)	536 (2315)	0 (2400)	0
22	429 (1015)	-44 (1315)	408 (2230)	-23		
23	-26 (0130)	425 (1100)	-44 (1345)	422 (2315)	-7	
24	-28 (0200)	439 (1130)	-53 (1430)	352 (2245)	-32	
25	-95 (0245)	1103				
26	0 (0015)	-29 (0245)	1040			
27	12 (0100)	-37 (0330)	459 (1400)	-6 (1530)	400	
28	58 (0215)	-1 (0245)	1136			
29	1501					
30	3328					
31	4473					

APRIL 1989 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	3712					
2	3289					
3	2676					
4	2660					
5	2800					
6	3616					
7	5789					
8	6726					
9	7137					
10	6500					
11	5470					
12	4203					
13	3199					
14	2600					
15	2272					
16	2347					
17	2588					
18	3096					
19	3112					
20	3265					
21	3306					
22	3059					
23	2574					
24	2342					
25	2005					
26	1791					
27	1700					
28	1571					
29	1581					
30	1500					

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MAY 1989 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	1549				
2	2090				
3	3651				
4	5405				
5	5463				
6	5132				
7	6081				
8	7247				
9	7287				
10	6324				
11	5676				
12	5756				
13	5866				
14	6026				
15	5594				
16	4726				
17	3945				
18	3375				
19	2763				
20	2194				
21	2037				
22	1899				
23	1723				
24	2533				
25	3868				
26	3727				
27	2829				
28	2061				
29	1851				
30	1796				
31	1674				

JUNE 1989 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	1478 (2030)	-6 (2200)	67		
2	1496 (2145)	0 (2215)	28		
3	1696 (2230)	-1 (2330)	4		
4	1721				
5	1640 (2400)	0			
6	-5 (0130)	1553			
7	1658				
8	2008				
9	2431				
10	3578				
11	4738				
12	4428				
13	3676				
14	3263				
15	3028				
16	3161				
17	3333				
18	3506				
19	2950				
20	2583				
21	2215				
22	1821				
23	1590				
24	1647				
25	1610				
26	988 (1630)	-4 (1745)	374		
27	1312				
28	1406				
29	1085 (1915)	-7 (2115)	121		
30	1187				

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JULY 1989 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	1083 (2030)	-30 (2330)	3		
2	982 (2115)	-56			
3	-11 (0045)	519 (1100)	-12 (1300)	466 (2230)	-8
4	-12 (0115)	547 (1145)	-7 (1330)	454 (2300)	-7
5	-38 (0230)	1085 (2345)	-2		
6	-42 (0230)	530 (1230)	-51 (1530)	476	
7	11 (0045)	-25 (0315)	512 (1300)	-36 (1545)	491
8	56 (0200)	-5 (0330)	539 (1400)	-33 (1645)	442
9	108 (0300)	-3 (0400)	455 (1415)	-87 (1815)	314
10	134 (0345)	-5 (0530)	385 (1430)	-97 (1845)	296
11	221 (0500)	0 (0545)	387 (1545)	-61 (1900)	292
12	1282				
13	1253				
14	986 (1830)	-26 (2100)	116		
15	454 (0830)	-9 (1000)	394 (1900)	-78 (2245)	36
16	457 (0830)	-40 (1130)	341 (1930)	-122 (2400)	2
17	422 (0815)	-115 (1230)	417 (2100)	-98	
18	-8 (0045)	495 (0945)	-60 (1300)	454 (2130)	-55
19	-12 (0100)	553 (1045)	-44 (1330)	422 (2200)	-51
20	-49 (0200)	501 (1100)	-58 (1430)	432 (2245)	-23
21	-70 (0245)	530 (1200)	-54 (1500)	499 (2400)	0
22	-49 (0300)	549 (1245)	-44 (1530)	484	
23	23 (0100)	-49 (0345)	463 (1300)	-125 (1715)	409
24	67 (0200)	-47 (0500)	406 (1330)	-139 (1800)	330
25	116 (0245)	-43 (0600)	377 (1430)	-152 (1900)	278
26	185 (0400)	-51 (0715)	348 (1515)	-154 (2000)	213
27	256 (0515)	-59 (0830)	354 (1615)	-156 (2115)	156
28	343 (0615)	-59 (0930)	361 (1730)	-144 (2200)	86
29	377 (0700)	-88 (1045)	336 (1830)	-159 (2315)	22
30	443 (0800)	-93 (1145)	378 (1930)	-155	
31	0 (0015)	459 (0845)	-113 (1245)	373 (2030)	-128

AUGUST 1989 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	-18 (0100)	436 (0915)	-126 (1330)	388 (2115)	-96
2	-47 (0145)	431 (1000)	-129 (1400)	410 (2145)	-94
3	-81 (0215)	444 (1015)	-185 (1500)	409 (2245)	-53
4	-112 (0300)	452 (1045)	-199 (1530)	421 (2315)	-16
5	-150 (0345)	405 (1115)	-220 (1615)	400 (2400)	0
6	-144 (0415)	389 (1200)	-199 (1645)	458	
7	35 (0115)	-96 (0430)	463 (1300)	-137 (1700)	494
8	159 (0330)	-3 (0430)	549 (1415)	-97 (1730)	423
9	692 (1445)	-96 (1800)	377		
10	752 (1545)	-71 (1845)	297		
11	299 (0545)	-14 (0730)	415 (1600)	-125 (1945)	289
12	1567				
13	2238				
14	2528				
15	2827				
16	2568				
17	1909 (2300)	-19			
18	-16 (0100)	652 (1045)	-70 (1345)	654 (2315)	-9
19	-34 (0145)	619 (1115)	-95 (1445)	597 (2345)	-8
20	-78 (0300)	522 (1130)	-326 (1700)	482	
21	3 (0015)	-128 (0400)	477 (1200)	-288 (1715)	490
22	66 (0130)	-71 (0430)	474 (1300)	-177 (1745)	440
23	120 (0230)	-61 (0530)	465 (1400)	-135 (1815)	379
24	201 (0400)	-58 (0700)	354 (1445)	-200 (1945)	254
25	266 (0500)	-88 (0815)	381 (1615)	-168 (2030)	198
26	356 (0615)	-65 (0915)	365 (1715)	-165 (2145)	106
27	384 (0645)	-125 (1045)	359 (1815)	-181 (2315)	23
28	432 (0730)	-133 (1145)	358 (1915)	-180 (2400)	0
29	414 (0800)	-170 (1230)	393 (2015)	-153	
30	-14 (0045)	470 (0900)	-129 (1300)	451 (2115)	-98
31	-21 (0100)	474 (0930)	-127 (1330)	433 (2145)	-64

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

SEPTEMBER 1989 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	-35 (0130)	469 (0945)	-173 (1430)	417 (2215)	-56
2	-70 (0215)	442 (1045)	-158 (1500)	403 (2300)	-22
3	-101 (0300)	377 (1100)	-183 (1545)	381 (2330)	-5
4	-137 (0400)	337 (1115)	-202 (1630)	407	
5	4 (0030)	-127 (0430)	358 (1215)	-161 (1645)	429
6	40 (0130)	-82 (0445)	370 (1300)	-147 (1715)	389
7	78 (0215)	-68 (0545)	328 (1315)	-214 (1800)	372
8	115 (0245)	-123 (0645)	355 (1415)	-195 (1900)	306
9	170 (0330)	-131 (0745)	352 (1515)	-215 (2015)	236
10	241 (0430)	-168 (0845)	369 (1615)	-252 (2115)	155
11	305 (0515)	-215 (1000)	360 (1700)	-269 (2215)	89
12	375 (0600)	-232 (1045)	420 (1800)	-262 (2300)	35
13	465 (0700)	-239 (1145)	419 (1845)	-272 (2400)	5
14	477 (0730)	-269 (1230)	468 (1945)	-278	
15	-21 (0045)	510 (0815)	-245 (1300)	541 (2100)	-193
16	-39 (0115)	541 (0900)	-286 (1345)	572 (2130)	-148
17	-82 (0200)	574 (0945)	-260 (1430)	602 (2245)	-63
18	-135 (0245)	491 (1030)	-294 (1530)	566 (2330)	-13
19	-187 (0345)	465 (1100)	-284 (1615)	609	
20	31 (0100)	-131 (0415)	507 (1230)	-219 (1700)	537
21	100 (0200)	-108 (0515)	521 (1345)	-189 (1745)	477
22	233 (0400)	-50 (0615)	592 (1515)	-145 (1900)	379
23	1551				
24	1084 (1745)	-127 (2115)	165		
25	426 (0615)	-114 (0945)	486 (1815)	-163 (2215)	76
26	448 (0645)	-161 (1045)	555 (1915)	-117 (2245)	53
27	593 (0830)	-84 (1130)	551 (2015)	-107 (2330)	15
28	576 (0815)	-167 (1215)	606 (2115)	-80 (2345)	1
29	601 (0915)	-132 (1230)	528 (2130)	-103	
30	-11 (0045)	478 (0915)	-196 (1330)	537 (2200)	-72

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 south of Middle Haddam, 7.6 mi upstream from Salmon River, and 6.1 mi south of Middletown.

DRAINAGE AREA.--10,897 mi² 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 and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 483 microsiemens Aug. 18, 1975; minimum, 33 microsiemens 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, 175 microsiemens Sept. 14; minimum, 69 microsiemens May 8.

pH: Maximum, 8.7 units Sept. 3-5; minimum, 6.5 units May 8, 9.

WATER TEMPERATURES: Maximum, 29.0°C July 28, Aug. 7; minimum, 1.0°C Dec. 11.

DISSOLVED OXYGEN: Maximum, 16.0 mg/L July 27; minimum, 7.3 mg/L Aug. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, SATURATION (PERCENT)	COLIFORMS, (PER 100 ML)	STREPTOCOCCI, (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)
OCT											
04...	1100	148	7.71	14.5	18.5	3.4	9.1	97	--	--	--
17...	0940	158	7.40	18.5	14.0	0.40	9.0	87	130	K17	48
NOV											
16...	1350	106	7.47	16.5	8.0	2.5	11.1	94	3100	500	32
DEC											
12...	1030	110	7.27	<-5.0	1.5	0.90	13.8	95	2200	660	38
JAN											
11...	0915	170	7.15	2.0	1.0	2.0	13.0	89	2200	620	45
24...	1430	162	7.46	12.0	2.0	--	12.2	87	--	--	--
FEB											
06...	1610	164	7.10	4.5	2.5	--	13.0	95	--	--	--
21...	1515	165	7.20	14.5	3.0	--	13.0	97	--	--	--
MAR											
13...	1015	166	7.89	0.0	7.0	2.0	12.4	100	400	88	39
27...	1115	145	7.24	15.0	8.0	3.2	11.6	96	--	--	--
APR											
12...	0910	90	7.36	11.0	5.0	7.7	12.2	93	440	120	28
24...	1330	102	7.32	12.0	10.5	4.0	11.4	102	--	--	--
MAY											
08...	0850	76	7.06	13.0	10.0	16	11.0	98	640	120	24
30...	1005	116	7.03	23.0	18.0	3.2	8.1	85	--	--	--
JUN											
12...	1200	95	7.28	26.0	17.5	5.6	9.0	93	440	160	31
26...	1040	116	7.06	27.0	23.0	5.5	7.3	85	--	--	--
JUL											
10...	0805	137	7.48	24.0	25.0	1.8	7.8	94	28	K5	44
24...	1030	139	7.33	29.0	25.0	2.9	7.4	89	--	--	--
AUG											
09...	0830	144	7.93	20.0	25.0	1.2	6.9	83	52	K5	46
23...	0945	135	7.14	27.0	25.5	3.0	6.5	80	--	--	--
SEP											
05...	0755	155	8.50	14.5	22.0	2.5	10.0	112	36	K3	44
20...	1040	150	7.40	22.0	21.0	2.4	6.9	77	--	--	--

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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 SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
17...	15	2.5	--	16	13	--	94	0.13	105	0.570	0.030
NOV											
16...	10	1.7	21	14	8.9	6.1	65	0.09	67	0.390	0.010
DEC											
12...	12	1.9	--	15	10	--	69	0.09	75	--	<0.010
JAN											
11...	14	2.5	32	16	17	7.5	84	0.11	104	0.590	0.010
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
06...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	12	2.3	--	17	19	--	93	0.13	93	0.680	0.020
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	8.8	1.5	--	8.4	9.4	--	64	0.09	85	--	<0.010
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	7.7	1.2	16	8.0	6.8	4.9	55	0.07	98	0.290	0.010
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	9.7	1.6	--	9.3	8.4	--	71	0.09	102	0.290	0.010
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	14	2.2	30	12	13	5.2	85	0.11	88	0.480	0.020
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	15	2.1	--	11	13	--	90	0.12	90	--	<0.010
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	14	2.3	--	13	13	--	74	0.10	76	0.450	0.050
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)
OCT										
04...	0.500	0.460	0.190	0.190	0.71	0.90	1.4	0.100	0.050	0.050
17...	0.600	0.580	0.350	0.330	0.45	0.80	1.4	0.140	0.110	0.100
NOV										
16...	0.400	--	0.150	--	0.65	0.80	1.2	0.050	0.040	--
DEC										
12...	0.400	--	0.260	--	0.24	0.50	0.90	0.060	0.050	--
JAN										
11...	0.600	0.660	0.520	0.530	0.38	0.90	1.5	0.090	0.070	0.070
24...	0.600	0.600	0.560	0.520	0.24	0.80	1.4	0.110	0.090	0.070
FEB										
06...	0.600	0.540	0.430	0.440	0.37	0.80	1.4	0.080	0.060	0.050
21...	0.600	0.650	0.440	0.430	0.36	0.80	1.4	0.100	0.070	0.060
MAR										
13...	0.700	0.710	0.480	0.470	0.72	1.2	1.9	0.120	0.090	0.090
27...	0.600	0.600	0.240	0.250	0.36	0.60	1.2	0.090	0.040	0.030
APR										
12...	0.400	0.390	0.110	0.100	0.39	0.50	0.90	0.070	0.020	0.020
24...	0.400	0.400	0.140	0.140	0.46	0.60	1.0	0.060	0.040	0.020
MAY										
08...	0.300	0.280	0.070	0.050	0.23	0.30	0.60	0.070	0.020	0.020
30...	0.400	0.460	0.130	0.130	0.27	0.40	0.80	0.060	0.040	0.020
JUN										
12...	0.300	0.300	0.070	0.070	0.33	0.40	0.70	0.040	0.030	0.030
26...	0.500	0.490	0.140	0.140	0.26	0.40	0.90	0.050	0.030	0.040
JUL										
10...	0.500	0.560	0.070	0.070	0.53	0.60	1.1	0.040	0.020	0.020
24...	0.600	0.530	0.140	0.110	0.66	0.80	1.4	0.080	0.040	0.020
AUG										
09...	0.400	0.430	0.090	0.090	0.71	0.80	1.2	0.050	0.040	0.040
23...	0.500	0.450	0.150	0.160	0.45	0.60	1.1	0.080	0.040	0.050
SEP										
05...	0.500	0.500	0.040	0.010	0.56	0.60	1.1	0.090	0.020	<0.010
20...	0.600	0.610	0.210	0.200	0.29	0.50	1.1	0.090	0.080	0.070

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	120	115	118	132	126	130	155	152	154	157	150	154
2	127	120	123	134	131	133	158	154	156	152	147	149
3	128	120	125	136	131	134	160	156	158	149	145	147
4	125	120	123	143	136	139	157	155	156	152	147	150
5	125	121	123	145	142	144	156	154	155	158	152	153
6	121	118	120	146	142	144	159	155	158	164	158	160
7	127	119	123	155	146	149	162	158	159	165	163	165
8	128	121	124	147	144	146	161	144	151	165	161	163
9	123	115	121	144	138	140	154	144	148	160	156	159
10	118	104	110	140	135	139	159	154	158	159	157	158
11	103	90	97	147	134	142	159	151	157	164	158	162
12	90	87	89	152	141	148	155	130	141	169	163	167
13	92	86	89	140	133	136	140	119	131	173	169	171
14	96	91	94	134	129	132	119	113	117	175	171	174
15	101	94	98	136	131	134	111	103	106	174	172	173
16	103	98	101	136	135	136	108	102	105	174	170	172
17	102	93	97	147	135	141	108	103	106	172	164	167
18	96	90	92	151	144	147	112	105	109	166	159	164
19	101	91	97	154	147	152	122	112	117	159	157	158
20	105	97	100	153	143	149	129	119	123	160	156	158
21	103	98	101	146	142	144	132	128	130	160	154	157
22	110	104	108	146	141	144	139	133	135	157	152	155
23	115	109	113	147	142	145	141	136	139	152	149	151
24	118	114	116	147	138	142	139	135	137	150	147	149
25	118	115	117	145	138	142	138	136	138	149	146	148
26	115	112	114	146	141	143	142	138	141	151	149	150
27	120	114	117	150	148	150	145	142	144	151	143	146
28	123	117	121	153	151	152	145	142	143	144	133	140
29	124	119	122	155	152	154	145	143	145	-	-	-
30	127	123	125	155	154	154	153	144	148	-	-	-
31	---	---	---	155	151	153	158	151	155	---	---	---
MONTH	128	86	111	155	126	143	162	102	139	175	133	158
YEAR	175	69	121									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	-	-	-	-	-	-	-	-	-	6.8	6.7	6.8
2	-	-	-	-	-	-	-	-	-	6.9	6.8	6.8
3	-	-	-	-	-	-	-	-	-	6.8	6.7	6.7
4	-	-	-	-	-	-	-	-	-	6.7	6.7	6.7
5	-	-	-	-	-	-	-	-	-	6.7	6.7	6.7
6	-	-	-	-	-	-	-	-	-	6.7	6.7	6.7
7	-	-	-	-	-	-	-	-	-	6.7	6.6	6.7
8	-	-	-	-	-	-	6.7	6.6	6.7	6.7	6.5	6.6
9	-	-	-	-	-	-	6.7	6.7	6.7	6.6	6.5	6.6
10	-	-	-	-	-	-	6.7	6.7	6.7	6.6	6.6	6.6
11	-	-	-	-	-	-	6.9	6.7	6.7	6.7	6.6	6.6
12	-	-	-	-	-	-	6.8	6.8	6.8	6.7	6.7	6.7
13	-	-	-	-	-	-	6.9	6.8	6.9	6.7	6.7	6.7
14	-	-	-	-	-	-	6.9	6.9	6.9	6.8	6.7	6.7
15	-	-	-	-	-	-	6.9	6.8	6.9	6.8	6.7	6.8
16	-	-	-	-	-	-	6.9	6.9	6.9	6.8	6.7	6.8
17	-	-	-	-	-	-	6.9	6.8	6.9	6.7	6.7	6.7
18	-	-	-	-	-	-	6.9	6.8	6.8	6.7	6.6	6.7
19	-	-	-	-	-	-	6.9	6.8	6.9	6.7	6.6	6.7
20	-	-	-	-	-	-	6.9	6.9	6.9	6.8	6.6	6.7
21	-	-	-	-	-	-	7.0	6.9	6.9	6.7	6.6	6.7
22	-	-	-	-	-	-	7.0	6.9	6.9	6.7	6.6	6.7
23	-	-	-	-	-	-	7.0	6.9	7.0	6.8	6.7	6.7
24	-	-	-	-	-	-	6.9	6.8	6.9	6.8	6.7	6.7
25	-	-	-	-	-	-	6.9	6.8	6.9	6.8	6.6	6.7
26	-	-	-	-	-	-	6.8	6.8	6.8	6.7	6.6	6.7
27	-	-	-	-	-	-	6.8	6.8	6.8	6.8	6.7	6.7
28	-	-	-	-	-	-	6.8	6.7	6.8	6.8	6.8	6.8
29	---	---	---	-	-	-	6.8	6.8	6.8	6.9	6.8	6.8
30	---	---	---	-	-	-	6.8	6.8	6.8	6.8	6.7	6.8
31	---	---	---	-	-	-	---	---	---	6.8	6.7	6.7
MONTH	-	-	-	-	-	-	7.0	6.6	6.8	6.9	6.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.7	6.7	6.7	7.0	6.8	6.9	7.2	7.0	7.1	7.3	7.0	7.1
2	6.7	6.6	6.7	7.3	6.8	7.0	7.4	7.0	7.2	8.2	7.1	7.4
3	6.8	6.7	6.7	7.2	6.9	7.0	8.0	7.2	7.5	8.7	7.4	8.0
4	6.8	6.7	6.8	7.3	7.0	7.1	8.3	7.4	7.8	8.7	7.7	8.2
5	6.9	6.8	6.9	7.1	7.0	7.0	8.3	7.5	7.8	8.7	7.9	8.4
6	6.9	6.8	6.8	7.1	6.9	7.0	8.1	7.5	7.8	8.6	7.8	8.2
7	6.8	6.8	6.8	7.3	6.9	7.0	8.1	7.3	7.8	8.6	7.6	8.2
8	6.8	6.8	6.8	7.1	6.9	7.0	7.8	7.1	7.4	8.6	7.7	8.2
9	6.9	6.8	6.9	7.9	7.0	7.3	7.3	7.0	7.1	8.5	7.5	8.1
10	6.9	6.7	6.8	7.9	7.0	7.2	7.3	7.2	7.2	8.4	7.6	8

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.5	19.0	19.5	24.5	23.5	24.0	27.0	25.5	26.0	24.5	23.5	24.0
2	22.0	20.0	21.0	25.5	23.5	24.5	26.5	25.5	26.0	24.0	23.5	24.0
3	22.5	20.5	22.0	26.0	24.5	25.0	27.5	26.0	26.5	24.5	23.5	24.0
4	22.5	21.0	22.0	25.5	24.5	25.0	28.0	26.5	27.0	24.0	23.0	23.5
5	22.5	21.0	22.0	25.5	25.0	25.0	28.0	27.0	27.5	23.0	22.5	23.0
6	21.5	21.0	21.0	25.0	24.0	24.5	28.5	27.5	28.0	23.0	22.5	23.0
7	21.0	20.0	20.5	25.5	24.0	25.0	29.0	27.5	28.0	23.0	22.5	23.0
8	20.0	19.5	20.0	25.0	24.5	25.0	28.0	26.5	27.5	23.5	22.5	23.0
9	19.5	18.5	19.5	26.0	25.5	25.5	26.5	25.5	26.0	24.0	23.0	23.0
10	18.5	17.5	18.0	26.5	25.0	25.5	26.0	25.0	25.5	24.5	23.5	24.0
11	18.0	17.0	17.5	26.5	25.0	25.5	26.0	23.5	24.5	25.5	24.0	24.5
12	17.5	17.0	17.5	26.0	25.0	25.5	23.5	21.0	22.0	26.0	25.0	25.5
13	18.0	17.0	17.5	25.5	24.5	25.0	21.5	21.0	21.5	26.0	25.0	25.5
14	17.5	17.0	17.0	24.5	24.0	24.5	22.5	21.0	22.0	26.5	25.5	26.0
15	17.5	16.5	17.0	24.5	24.0	24.0	22.5	21.5	22.0	26.0	24.5	25.5
16	16.5	16.0	16.5	24.5	24.0	24.5	24.0	22.5	23.0	24.5	23.0	23.5
17	16.5	16.0	16.5	24.0	23.0	23.5	24.5	23.0	24.0	23.0	21.5	22.5
18	17.5	16.5	17.0	24.0	23.0	23.5	24.0	23.5	24.0	22.0	21.0	21.5
19	19.0	17.5	18.5	24.0	22.5	23.5	24.5	23.5	24.0	21.5	21.0	21.0
20	20.0	18.5	19.5	24.5	23.5	24.0	24.0	23.5	24.0	21.0	20.5	20.5
21	20.5	19.0	20.0	25.0	23.5	24.0	25.0	23.5	24.0	21.5	20.0	20.5
22	21.0	19.5	20.0	24.0	23.0	23.5	26.0	24.0	25.0	22.0	20.5	21.5
23	22.5	20.5	21.5	24.5	23.0	24.0	26.0	25.0	25.5	22.5	21.5	22.0
24	23.0	22.0	22.5	26.0	24.0	25.0	26.5	25.0	26.0	21.5	20.5	21.0
25	23.0	22.0	22.5	27.0	25.0	25.5	26.0	25.0	25.5	20.0	19.5	20.0
26	24.0	22.0	23.0	28.0	26.5	27.0	25.5	24.5	25.0	20.0	18.5	19.5
27	25.5	23.5	24.0	28.5	27.0	27.5	24.5	24.0	24.0	18.5	18.0	18.5
28	25.5	24.5	25.0	29.0	28.0	28.5	24.0	23.5	24.0	18.0	17.0	17.5
29	25.0	24.0	24.5	28.0	27.5	28.0	24.0	23.0	23.5	-	-	-
30	24.5	23.5	24.0	28.0	27.0	27.5	24.5	23.0	24.0	-	-	-
31	---	---	---	27.0	26.0	26.5	24.5	23.5	24.0	---	---	---
MONTH	25.5	16.0	20.0	29.0	22.5	25.0	29.0	21.0	25.0	26.5	17.0	22.5
YEAR	29.0	1.0	16.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	-	-	-	10.6	10.4	10.4	12.7	12.4	12.5	-	-	-
2	-	-	-	11.1	10.4	10.8	12.9	12.6	12.7	-	-	-
3	-	-	-	11.1	10.3	10.8	13.0	12.8	12.9	-	-	-
4	-	-	-	11.4	11.2	11.3	13.0	12.8	12.9	-	-	-
5	-	-	-	11.7	11.4	11.6	13.1	12.8	12.9	-	-	-
6	-	-	-	11.6	11.3	11.5	13.2	12.9	13.0	-	-	-
7	-	-	-	11.4	11.2	11.3	13.2	12.7	13.0	-	-	-
8	8.9	8.5	8.7	11.3	11.1	11.2	13.2	12.8	13.1	-	-	-
9	9.3	8.5	8.9	11.5	11.1	11.3	13.2	12.7	13.0	-	-	-
10	9.4	8.9	9.1	11.6	11.4	11.5	13.2	12.9	13.1	-	-	-
11	9.3	8.9	9.1	11.4	11.2	11.4	13.3	13.0	13.2	-	-	-
12	9.6	9.0	9.3	11.3	11.0	11.2	-	-	-	-	-	-
13	10.2	9.4	9.7	11.2	11.0	11.1	-	-	-	-	-	-
14	10.0	9.5	9.8	11.3	10.8	11.1	-	-	-	-	-	-
15	10.2	9.5	9.8	11.1	10.6	10.8	-	-	-	-	-	-
16	10.4	9.9	10.1	11.3	11.0	11.1	-	-	-	-	-	-
17	10.6	10.1	10.4	11.3	11.0	11.2	-	-	-	-	-	-
18	10.6	10.0	10.3	11.1	10.5	10.8	-	-	-	-	-	-
19	10.8	10.0	10.2	11.2	10.7	10.9	-	-	-	-	-	-
20	11.2	10.3	10.8	11.4	11.0	11.1	-	-	-	-	-	-
21	10.7	9.7	10.2	11.3	11.0	11.1	-	-	-	-	-	-
22	10.0	9.4	9.7	11.8	11.1	11.5	-	-	-	-	-	-
23	10.2	9.7	10.0	12.2	11.7	12.1	-	-	-	-	-	-
24	10.0	9.8	9.9	12.5	12.1	12.3	-	-	-	-	-	-
25	10.4	9.8	10.1	12.6	12.3	12.4	-	-	-	-	-	-
26	10.3	9.9	10.1	12.6	12.5	12.5	-	-	-	-	-	-
27	10.5	10.1	10.3	12.8	12.5	12.7	-	-	-	-	-	-
28	10.6	10.2	10.4	12.7	12.2	12.6	-	-	-	-	-	-
29	10.8	10.3	10.6	12.2	12.0	12.1	-	-	-	-	-	-
30	10.8	10.5	10.7	12.5	12.0	12.3	-	-	-	-	-	-
31	10.8	10.4	10.7	---	---	---	-	-	-	-	-	-
MONTH	11.2	8.5	10.0	12.8	10.3	11.5	13.3	12.4	12.9	-	-	-

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	-	-	-	-	-	-	-	-	-	11.6	11.2	11.4
2	-	-	-	-	-	-	-	-	-	11.6	10.9	11.2
3	-	-	-	-	-	-	-	-	-	11.5	10.7	10.9
4	-	-	-	-	-	-	-	-	-	12.5	11.6	12.1
5	-	-	-	-	-	-	-	-	-	12.6	12.3	12.5
6	-	-	-	-	-	-	-	-	-	12.4	11.9	12.1
7	-	-	-	-	-	-	-	-	-	12.3	11.9	12.1
8	-	-	-	-	-	-	15.0	14.7	14.9	12.4	12.2	12.2
9	-	-	-	-	-	-	15.1	14.9	15.0	12.3	12.2	12.3
10	-	-	-	-	-	-	14.9	14.6	14.8	12.3	12.0	12.3
11	-	-	-	-	-	-	14.7	14.6	14.6	12.0	11.7	11.8
12	-	-	-	-	-	-	14.6	14.2	14.4	12.0	11.7	11.9
13	-	-	-	-	-	-	14.2	14.0	14.1	12.2	12.0	12.1
14	-	-	-	-	-	-	14.0	13.6	13.8	12.2	12.0	12.1
15	-	-	-	-	-	-	13.8	13.2	13.5	14.2	11.8	12.0
16	-	-	-	-	-	-	13.4	12.8	13.1	11.8	11.2	11.5
17	-	-	-	-	-	-	13.0	12.8	12.9	11.2	10.8	11.0
18	-	-	-	-	-	-	13.1	12.9	13.0	10.9	10.7	10.8
19	-	-	-	-	-	-	13.2	12.8	13.0	10.8	10.2	10.5
20	-	-	-	-	-	-	12.8	12.7	12.8	10.2	9.6	10.0
21	-	-	-	-	-	-	12.8	12.4	12.7	9.7	9.4	9.6
22	-	-	-	-	-	-	12.5	12.3	12.4	9.5	9.1	9.3
23	-	-	-	-	-	-	12.4	12.3	12.4	9.3	8.9	9.1
24	-	-	-	-	-	-	12.5	12.3	12.4	9.3	8.8	9.1
25	-	-	-	-	-	-	12.5	12.2	12.4	9.2	9.0	9.1
26	-	-	-	-	-	-	12.4	12.1	12.2	9.6	9.3	9.5
27	-	-	-	-	-	-	12.1	11.9	12.0	9.6	9.2	9.4
28	-	-	-	-	-	-	11.9	11.6	11.7	9.5	9.1	9.3
29	---	---	---	-	-	-	11.8	11.4	11.6	9.6	9.3	9.5
30	---	---	---	-	-	-	11.7	11.3	11.5	9.7	9.4	9.6
31	---	---	---	-	-	-	---	---	---	9.6	9.1	9.4
MONTH	-	-	-	-	-	-	15.1	11.3	13.1	14.2	8.8	10.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.3	9.1	9.2	9.4	8.3	8.8	9.6	8.5	9.0	10.1	8.8	9.5
2	9.2	8.7	9.0	10.5	8.4	9.4	10.2	8.6	9.3	11.9	9.3	10.3
3	9.0	8.4	8.7	10.3	8.7	9.6	11.3	9.2	10.2	13.5	10.2	11.7
4	8.9	8.2	8.6	10.5	9.6	9.9	12.3	10.0	10.9	13.7	11.2	12.3
5	9.2	8.4	8.8	9.6	8.9	9.3	11.9	10.1	10.7	14.2	11.6	12.9
6	8.9	8.4	8.5	9.5	8.4	8.8	11.4	9.9	10.7	13.7	11.9	12.6
7	8.5	8.0	8.2	10.3	8.0	8.8	11.1	9.2</				

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 downstream from New London-Middlesex County line, 300 ft downstream from Comstock Bridge, 0.7 mi downstream from Dickinson Creek, and 3.5 mi southeast of East Hampton.

DRAINAGE AREA.--100 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1201: 1929. WDR CT-78-1: 1976 (P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 63.71 ft above National Geodetic Vertical Datum of 1929. Prior to June 23, 1974, at datum 2.99 ft higher for site and datum then in use; prior to May 20, 1980, at datum 2.80 ft higher and at site 400 ft upstream.

REMARKS.--Records good except for periods of estimated record, which are fair. Slight regulation at low flow by ponds upstream.

AVERAGE DISCHARGE.--61 years, 185 ft³/s, 25.12 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0015	*1860	*6.14	Aug. 12	1445	1640	5.85
June 10	0330	1620	5.82				

Minimum discharge, 14 ft³/s, Oct. 1, 2, gage height, 2.26 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	138	289	e140	150	e155	552	301	268	114	59	108
2	14	628	240	e125	140	e150	367	732	326	101	56	89
3	20	266	212	e115	e135	e145	326	654	353	90	51	74
4	21	149	187	e100	e130	e140	353	401	321	84	47	61
5	20	115	169	e97	110	e135	340	315	294	187	43	55
6	18	169	e155	e94	e105	e132	478	902	286	428	40	53
7	18	132	e145	e93	e98	e128	491	645	413	294	37	51
8	52	100	e140	161	e94	e125	659	429	873	378	36	47
9	59	85	e130	167	e90	e122	532	353	1300	204	32	45
10	40	75	e125	134	e88	e119	429	393	1320	177	30	43
11	32	77	e115	130	e85	115	345	1100	714	283	625	40
12	27	71	e110	159	e83	123	299	899	475	165	1440	37
13	25	131	e125	193	e81	e120	272	619	514	128	1140	35
14	26	279	e155	e140	140	123	252	476	494	112	713	35
15	23	171	e140	213	190	128	266	403	495	110	393	137
16	21	125	e130	e180	215	135	686	430	790	97	285	99
17	20	227	e120	e140	e130	125	480	540	723	411	230	150
18	20	312	e110	e130	e110	158	369	412	622	316	170	120
19	20	191	e105	e120	e100	275	323	333	429	193	141	173
20	19	670	e100	e110	e95	187	284	279	334	144	130	255
21	18	1320	e120	e105	477	282	253	249	279	186	128	190
22	124	571	e115	e100	814	273	228	226	264	167	156	149
23	122	381	e110	e97	463	195	205	190	240	130	122	121
24	73	307	e200	e95	285	202	193	893	396	105	97	156
25	57	259	371	e93	e200	603	185	688	293	90	85	114
26	46	224	235	134	e180	390	176	416	226	79	75	168
27	39	205	162	225	e170	273	166	429	191	70	66	182
28	37	564	182	158	e160	231	156	439	175	84	63	125
29	36	514	291	133	---	210	152	306	154	77	67	100
30	32	355	e180	155	---	225	383	252	130	64	357	86
31	31	---	e155	172	---	589	---	232	---	60	180	---
TOTAL	1124	8811	5123	4208	5118	6313	10200	14936	13692	5128	7094	3098
MEAN	36.3	294	165	136	183	204	340	482	456	165	229	103
MAX	124	1320	371	225	814	603	686	1100	1320	428	1440	255
MIN	14	71	100	93	81	115	152	190	130	60	30	35
CFSM	.36	2.94	1.65	1.36	1.83	2.04	3.40	4.82	4.56	1.65	2.29	1.03
IN.	.42	3.28	1.91	1.57	1.90	2.35	3.79	5.56	5.09	1.91	2.64	1.15

CAL YR 1988 TOTAL 53894 MEAN 147 MAX 1320 MIN 10 CFSM 1.47 IN. 20.05
WTR YR 1989 TOTAL 84845 MEAN 232 MAX 1440 MIN 14 CFSM 2.32 IN. 31.56

e Estimated

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.

pH: December 1984 to current year.

WATER TEMPERATURES: March 1975 to current year.

DISSOLVED OXYGEN: January 1985 to current year.

SUSPENDED-SEDIMENT DISCHARGE: January 1982 to September 1986, October 1987 to current year.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE: March 1987 to September 1987.

INSTRUMENTATION.--Water-quality 2-channel mini monitor March 1975 to September 1984.

Water-quality 4-channel mini monitor since October 1984.

REMARKS.--Unpublished records of iron, specific conductance, and pH of daily samples for 1960-61 available in the 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.

Suspended-sediment records are good during periods of low and normal flows, and fair during high flows.

Data estimated during periods of missing records.

Extremes for period of daily record and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 8.8 units Oct. 14, 1985, Aug. 9, 18, 19, 1987; minimum 6.2 units Dec. 19, 1986.

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

DISSOLVED OXYGEN: Maximum, 17.1 mg/L March 9, 1986; minimum 0.2 mg/L Dec. 3, 1986.

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 June 6, 1982; minimum daily, 0 ton on numerous days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 125 microsiemens Oct. 5; minimum, 60 microsiemens August 12.

pH: Maximum, 7.8 units July 3; minimum, 6.4 units November 20, 21.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 15; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 14.6 mg/L Dec. 23; minimum, 3.6 mg/L June 11.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 68 mg/L August 12; minimum daily mean, 1 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 261 tons August 12; minimum daily .04 tons October 1,2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (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 TOTAL (MG/L AS CACO3)
OCT												
20...	1240	19	128	7.31	12.0	8.0	0.33	11.9	101	K7	K11	28
NOV												
15...	1505	158	95	6.98	15.5	8.0	1.4	12.4	104	96	120	23
DEC												
15...	1530	140	114	6.99	6.0	2.0	0.75	13.0	94	K12	750	25
JAN												
11...	1445	127	112	7.11	4.5	0.0	0.63	15.0	100	25	K4	24
MAR												
20...	1210	179	94	7.17	6.5	4.0	1.3	14.3	107	21	K8	22
APR												
12...	1250	297	89	6.95	12.0	8.0	0.55	12.7	105	K9	K6	20
MAY												
17...	1026	579	80	7.47	23.0	14.5	1.4	10.8	105	210	720	19
JUN												
13...	1410	579	63	7.08	16.5	16.5	1.9	9.8	101	280	400	17
JUL												
18...	1245	305	86	7.15	24.5	19.0	2.1	9.4	100	190	360	21
AUG												
09...	1255	33	112	7.09	24.5	20.5	0.90	9.1	100	K15	51	27
SEP												
01...	1500	101	87	7.45	24.5	20.5	1.2	9.3	104	26	140	22

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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, 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)
OCT 20...	7.4	2.2	--	13	19	--	79	0.11	4.05	80	--	<0.010
NOV 15...	6.1	1.9	9.0	17	14	9.4	63	0.08	26.9	77	1.86	0.040
DEC 15...	6.6	2.0	--	15	16	--	58	0.08	21.9	74	0.390	0.010
JAN 11...	6.5	1.9	9.0	14	--	10	59	0.08	20.2	71	--	<0.010
MAR 20...	5.9	1.7	--	14	13	--	60	0.08	29.0	64	--	<0.010
APR 12...	5.2	1.6	--	11	12	--	58	0.08	46.5	59	--	<0.010
MAY 17...	5.1	1.5	8.0	11	11	6.6	70	0.09	109	72	--	<0.010
JUN 13...	4.8	1.3	--	9.0	10	--	55	0.07	86.0	59	--	<0.010
JUL 18...	5.6	1.6	13	7.0	11	9.2	61	0.08	50.2	60	--	<0.010
AUG 09...	7.4	2.0	--	9.0	15	--	81	0.11	7.22	82	--	<0.010
SEP 01...	6.0	1.7	--	5.0	16	--	67	0.09	18.5	56	--	<0.010
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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	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)
OCT 20...	<0.100	<0.010	--	0.40	--	<0.010	<0.010	10	--	<1	--	<1
NOV 15...	1.90	0.200	0.80	1.0	2.9	0.360	0.360	50	<1	<1	<1	<1
DEC 15...	0.400	0.010	0.39	0.40	0.80	<0.010	<0.010	20	--	<1	--	1
JAN 11...	0.500	0.030	0.27	0.30	0.80	<0.010	<0.010	<10	<1	<1	3	<1
MAR 20...	0.500	0.070	0.13	0.20	0.70	0.010	<0.010	30	<1	<1	<1	<1
APR 12...	0.300	0.010	0.49	0.50	0.80	0.010	0.010	50	--	<1	--	1
MAY 17...	0.200	0.020	0.78	0.80	1.0	0.020	0.020	40	<1	<1	1	<1
JUN 13...	0.200	0.030	0.67	0.70	0.90	0.020	0.010	50	--	<1	--	<1
JUL 18...	0.200	<0.010	--	0.50	0.70	0.020	0.020	50	<1	<1	<1	<1
AUG 09...	0.200	<0.010	--	<0.20	--	0.010	<0.010	20	--	<1	--	<1
SEP 01...	0.100	0.010	0.29	0.30	0.40	<0.010	<0.010	40	<1	<1	<1	<1

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	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...	--	<1	--	--	--	<5	--	--	<1	--	<3	4.0
NOV 15...	4	1	280	150	<5	<5	13	3	4	<10	5	5.8
DEC 15...	--	1	--	--	--	<5	--	--	2	--	4	2.9
JAN 11...	<1	<1	200	100	<5	<5	27	3	<1	<10	4	2.8
MAR 20...	1	1	200	--	<5	<5	--	5	<1	<10	4	2.9
APR 12...	--	<1	--	--	--	<5	--	--	<1	--	8	3.0
MAY 17...	3	1	440	160	2	<1	18	3	<1	<10	5	4.6
JUN 13...	--	1	--	--	--	1	--	--	<1	--	3	5.0
JUL 18...	2	<1	970	490	2	<1	15	3	1	<10	4	6.5
AUG 09...	--	2	--	--	--	1	--	--	1	--	3	3.7
SEP 01...	17	<1	480	--	1	<1	--	5	1	<10	4	5.2

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE, (TONS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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	1	.04	138	8	7.3	289	1	.78
2	14	1	.04	628	21	38	240	1	.65
3	20	1	.05	266	4	2.9	212	1	.57
4	21	1	.06	149	3	1.2	187	2	1.0
5	20	1	.05	115	1	.31	169	1	.46
6	18	1	.05	169	1	.46	e155	2	.84
7	18	1	.05	132	1	.36	e145	1	.39
8	52	1	.14	100	1	.27	e140	2	.76
9	59	1	.16	85	1	.23	e130	2	.70
10	40	1	.11	75	1	.20	e125	3	1.0
11	32	1	.09	77	1	.21	e115	1	.31
12	27	1	.07	71	1	.19	e110	1	.30
13	25	1	.07	131	3	1.9	e125	1	.34
14	26	1	.07	279	4	3.0	e155	2	.84
15	23	1	.06	171	2	.92	e140	2	.76
16	21	1	.06	125	1	.34	e130	2	.70
17	20	1	.05	227	3	1.8	e120	2	.65
18	20	1	.05	312	1	.84	e110	1	.30
19	20	1	.05	191	1	.52	e105	1	.28
20	19	1	.05	670	35	104	e100	1	.27
21	18	1	.05	1320	43	153	e120	1	.32
22	124	10	3.9	571	10	15	e115	1	.31
23	122	5	1.6	381	2	2.1	e110	2	.59
24	73	2	.39	307	1	.83	e200	5	4.4
25	57	2	.31	259	1	.70	371	12	12
26	46	2	.25	224	1	.60	235	3	1.9
27	39	2	.21	205	1	.55	162	2	.87
28	37	1	.10	564	9	14	182	1	.49
29	36	1	.10	514	4	5.6	291	3	2.4
30	32	2	.17	355	1	.96	e180	1	.49
31	31	1	.08	---	---	---	e155	1	.42
TOTAL	1124	---	8.53	8811	---	358.29	5123	---	36.09
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)
JANUARY			FEBRUARY			MARCH			
1	e140	2	.76	150	1	.40	e155	1	.42
2	e125	1	.34	140	2	.76	e150	1	.40
3	e115	1	.31	e135	2	.73	e145	1	.39
4	e100	1	.27	e130	3	1.1	e140	1	.38
5	e97	1	.26	110	3	.89	e135	1	.36
6	e94	1	.25	e105	3	.85	e132	1	.36
7	e93	1	.25	e98	3	.79	e128	1	.35
8	161	1	.43	e94	3	.76	e125	2	.67
9	167	1	.45	e90	3	.73	e122	2	.66
10	134	1	.36	e88	2	.48	e119	1	.32
11	130	1	.35	e85	2	.46	115	1	.31
12	159	2	.86	e83	1	.22	123	1	.33
13	193	2	1.0	e81	2	.44	e120	1	.32
14	e140	2	.76	140	3	1.1	123	1	.33
15	213	3	1.7	190	3	1.5	128	1	.35
16	e180	1	.49	215	3	1.7	135	2	.73
17	e140	1	.38	e130	3	1.1	125	3	1.0
18	e130	1	.35	e110	3	.89	158	8	3.4
19	e120	1	.32	e100	2	.54	275	6	4.5
20	e110	1	.30	e95	1	.26	187	2	1.0
21	e105	1	.28	477	40	86	282	6	4.6
22	e100	2	.54	814	29	68	273	3	2.2
23	e97	3	.79	463	6	7.5	195	2	1.1
24	e95	2	.51	285	5	3.8	202	4	2.7
25	e93	3	.75	e200	4	2.2	603	15	24
26	134	2	.72	e180	3	1.5	390	4	4.2
27	225	2	1.2	e170	2	.92	273	2	1.5
28	158	1	.43	e160	1	.43	231	1	.62
29	133	1	.36	---	---	---	210	2	1.1
30	155	1	.42	---	---	---	225	4	2.9
31	172	1	.46	---	---	---	589	10	16
TOTAL	4208	---	16.65	5118	---	186.05	6313	---	77.50

e Estimated

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUSPENDED-SEDIMENT DISCHARGE, (TONS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	552	5	7.5	301	5	4.1	268	7	5.1
2	367	3	3.0	732	37	92	326	7	6.2
3	326	3	2.6	654	13	24	353	6	5.7
4	353	3	2.9	401	4	4.3	321	5	4.3
5	340	4	3.7	315	4	3.4	294	4	3.2
6	478	6	8.1	902	36	92	286	4	3.1
7	491	4	5.3	645	9	16	413	11	15
8	659	7	13	429	4	4.6	873	30	71
9	532	2	2.9	353	2	1.9	1300	46	158
10	429	2	2.3	393	4	4.9	1320	32	118
11	345	2	1.9	1100	39	120	714	7	13
12	299	1	.81	899	12	31	475	4	5.1
13	272	1	.73	619	3	5.0	514	6	8.3
14	252	1	.68	476	2	2.6	494	3	4.0
15	266	3	2.2	403	2	2.2	495	4	5.3
16	686	10	19	430	3	3.5	790	16	35
17	480	3	3.9	540	4	5.8	723	7	14
18	369	3	3.0	412	3	3.3	622	4	6.7
19	323	3	2.6	333	4	3.6	429	2	2.3
20	284	2	1.5	279	4	3.0	334	2	1.8
21	253	1	.68	249	4	2.7	279	2	1.5
22	228	2	1.2	226	3	1.8	264	3	2.1
23	205	2	1.1	190	5	2.6	240	4	2.6
24	193	1	.52	893	41	101	396	7	7.5
25	185	1	.50	688	11	20	293	4	3.2
26	176	2	.95	416	4	4.5	226	4	2.4
27	166	3	1.3	429	8	9.3	191	6	3.1
28	156	2	.84	439	5	5.9	175	6	2.8
29	152	3	1.2	306	3	2.5	154	6	2.5
30	383	8	8.2	252	3	2.0	130	7	2.5
31	---	---	---	232	5	3.1	---	---	---
TOTAL	10200	---	104.11	14936	---	582.6	13692	---	515.3
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST			SEPTEMBER		
1	114	7	2.2	59	5	.80	108	2	.58
2	101	7	1.9	56	5	.76	89	2	.48
3	90	7	1.7	51	4	.55	74	2	.40
4	84	7	1.6	47	4	.51	61	2	.33
5	187	10	7.4	43	4	.46	55	2	.30
6	428	15	17	40	4	.43	53	2	.29
7	294	11	9.2	37	4	.40	51	1	.14
8	378	13	13	36	2	.19	47	1	.13
9	204	11	6.1	32	1	.09	45	1	.12
10	177	10	4.8	30	1	.08	43	1	.12
11	283	12	9.2	625	62	195	40	1	.11
12	165	7	3.1	1440	68	261	37	1	.10
13	128	6	2.1	1140	16	49	35	1	.09
14	112	6	1.8	713	5	9.6	35	1	.09
15	110	6	1.8	393	3	3.2	137	3	1.1
16	97	6	1.6	285	2	1.5	99	2	.53
17	411	19	20	230	2	1.2	150	3	1.2
18	316	10	8.5	170	1	.46	120	3	.97
19	193	8	4.2	141	1	.38	173	7	3.3
20	144	6	2.3	130	1	.35	255	5	3.4
21	186	8	4.0	128	2	.69	190	3	1.5
22	167	7	3.2	156	2	.84	149	3	1.2
23	130	7	2.5	122	2	.66	121	3	.98
24	105	7	2.0	97	1	.26	156	4	1.7
25	90	7	1.7	85	1	.23	114	3	.92
26	79	7	1.5	75	1	.20	168	3	1.4
27	70	6	1.1	66	1	.18	182	3	1.5
28	84	7	1.6	63	1	.17	125	3	1.0
29	77	5	1.0	67	1	.18	100	3	.81
30	64	5	.86	357	14	14	86	2	.46
31	60	5	.81	180	5	2.4	---	---	---
TOTAL	5128	---	139.77	7094	---	545.77	3098	---	25.25
YEAR	84845		2595.91						

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	90	86	89	97	96	97	107	104	106	94	92	93
2	90	85	88	99	97	98	109	105	107	99	95	96
3	89	87	88	100	97	98	110	107	109	100	98	99
4	89	79	86	100	98	99	112	107	110	102	100	101
5	90	83	87	100	74	95	115	109	111	104	102	103
6	90	84	87	91	78	87	115	110	113	105	103	104
7	88	79	85	91	73	86	115	110	114	107	105	105
8	81	68	77	86	81	84	119	112	115	107	105	106
9	70	65	67	90	86	88	120	114	116	108	105	107
10	70	65	67	92	83	90	119	114	116	109	104	107
11	78	71	74	92	88	90	117	64	93	110	104	108
12	80	76	78	93	91	92	70	60	66	111	104	109
13	80	77	79	94	93	94	67	64	65	113	109	111
14	81	80	81	96	93	95	74	65	69	112	98	110
15	82	78	81	98	95	97	80	74	78	112	95	105
16	78	74	76	98	94	98	86	80	83	108	102	105
17	77	73	75	93	83	87	89	86	87	102	97	100
18	78	74	76	88	87	88	92	89	90	103	102	103
19	81	78	80	90	87	88	94	92	93	102	88	98
20	84	81	82	92	90	91	96	94	95	96	89	94
21	86	83	84	92	90	91	97	95	96	95	93	94
22	88	85	86	92	90	91	97	96	96	97	95	96
23	88	85	87	95	92	93	97	95	96	98	97	98
24	87	84	86	97	95	95	99	97	98	100	97	98
25	89	86	87	100	97	98	100	99	99	100	97	98
26	91	88	89	102	99	100	102	100	101	98	93	95
27	92	90	91	104	100	102	103	101	102	97	94	96
28	93	91	92	105	97	101	104	102	103	97	96	97
29	95	93	94	104	100	103	105	90	103	97	95	96
30	97	95	96	107	104	105	99	85	90	98	96	97
31	---	---	---	107	104	106	91	89	90	---	---	---
MONTH	97	65	83	107	73	94	120	60	97	113	88	101
YEAR	125	60	95									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.6	7.0	7.2	7.1	6.7	7.0	6.7	6.5	6.7	7.1	6.9	7.0
2	7.6	7.0	7.2	6.9	6.6	6.8	6.8	6.7	6.8	7.0	6.9	6.9
3	7.6	7.0	7.2	6.9	6.8	6.9	6.8	6.8	6.8	7.0	6.8	6.9
4	7.5	7.1	7.2	6.9	6.8	6.9	6.9	6.7	6.8	7.0	6.8	6.9
5	7.5	7.1	7.2	7.0	6.8	6.9	6.8	6.8	6.8	7.0	6.9	6.9
6	7.4	7.0	7.2	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9
7	7.4	7.1	7.2	7.0	6.9	7.0	6.8	6.8	6.8	6.9	6.9	6.9
8	7.3	7.0	7.2	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.9
9	7.2	7.1	7.1	7.1	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.9
10	7.3	7.1	7.1	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.8	6.9
11	7.3	7.1	7.2	7.1	7.0	7.0	6.9	6.8	6.9	6.9	6.9	6.9
12	7.3	7.1	7.2	7.1	7.0	7.1	6.9	6.9	6.9	6.9	6.8	6.9
13	7.2	7.0	7.1	7.1	6.9	7.0	6.9	6.9	6.9	6.9	6.9	6.9
14	7.2	6.9	7.0	7.0	6.8	6.9	6.9	6.8	6.8	6.9	6.9	6.9
15	7.2	6.9	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.9	6.9
16	7.3	7.1	7.2	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
17	7.3	7.0	7.2	7.0	6.9	6.9	6.9	6.8	6.9	7.0	6.8	6.9
18	7.4	7.0	7.1	-	-	-	6.9	6.8	6.9	6.9	6.8	6.9
19	7.3	7.0	7.2	-	-	-	6.9	6.8	6.9	6.9	6.8	6.9
20	7.2	7.1	7.1	6.9	6.4	6.8	6.9	6.8	6.8	6.9	6.8	6.9
21	7.2	7.1	7.1	6.5	6.4	6.4	-	-	-	7.0	6.9	6.9
22	7.1	6.9	7.0	6.6	6.5	6.6	6.9	6.8	6.8	7.0	6.9	7.0
23	7.1	6.9	7.0	6.7	6.6	6.7	6.9	6.8	6.9	7.0	6.9	6.9
24	7.1	6.9	7.0	6.8	6.7	6.7	6.9	6.8	6.8	6.9	6.9	6.9
25	7.1	6.9	7.0	6.8	6.7	6.8	7.0	6.9	6.9	7.0	6.9	6.9
26	7.1	7.0	7.1	6.8	6.8	6.8	7.0	6.9	6.9	7.0	6.9	6.9
27	7.1	7.0	7.1	6.8	6.7	6.8	7.0	6.9	6.9	6.9	6.8	6.9
28	7.1	6.9	7.0	6.8	6.6	6.7	7.0	6.9	6.9	7.0	6.9	6.9
29	7.1	6.9	7.0	6.8	6.7	6.7	6.9	6.7	6.9	7.0	6.9	6.9
30	7.2	7.0	7.1	6.8	6.7	6.8	7.0	6.7	6.9	6.9	6.8	6.9
31	7.2	7.1	7.1	---	---	---	7.0	7.0	7.0	6.9	6.8	6.9
MONTH	7.6	7.0	7.1	7.1	6.4	6.9	7.0	6.5	6.9	7.1	6.8	6.9

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.0	16.5	18.0	20.5	16.0	18.0	22.5	18.0	20.0	20.0	16.5	18.5
2	21.0	18.5	19.5	22.0	17.0	19.5	22.0	18.0	20.0	22.0	18.5	20.0
3	21.0	18.0	19.5	23.0	18.5	20.5	23.5	19.0	21.0	20.0	16.5	18.0
4	19.5	18.0	19.0	19.5	18.0	19.0	25.0	19.5	22.5	18.5	14.5	16.5
5	19.0	16.0	17.5	19.5	18.5	19.0	26.0	21.5	23.5	17.5	13.5	15.0
6	18.0	17.0	17.5	20.0	18.5	19.5	27.0	21.5	24.0	17.0	12.5	15.0
7	17.0	16.0	16.5	22.5	19.5	20.5	23.5	21.0	23.0	18.5	14.0	16.0
8	17.0	16.0	16.5	22.0	20.0	21.0	22.5	18.0	20.0	19.5	15.0	17.0
9	18.0	16.5	17.0	22.0	19.0	20.5	22.0	15.5	18.5	20.5	16.0	18.0
10	20.0	16.0	17.5	21.0	19.0	20.0	20.5	15.5	18.0	22.0	18.0	20.0
11	28.5	20.0	24.0	22.5	19.0	20.5	18.0	16.0	17.0	23.0	19.5	21.0
12	26.0	16.0	19.5	21.5	18.5	20.0	19.0	17.5	18.5	22.5	20.0	21.0
13	20.0	18.0	18.5	20.0	18.5	19.0	22.0	19.5	21.0	21.5	17.5	19.5
14	18.5	17.0	17.5	20.0	18.0	19.0	27.0	22.0	24.5	19.5	17.5	18.5
15	17.0	15.0	15.5	21.0	17.5	19.0	30.0	24.5	27.5	19.0	17.0	18.5
16	16.5	14.5	15.5	19.0	18.0	18.5	28.0	23.5	25.0	17.0	15.5	16.5
17	18.5	16.0	17.5	18.0	17.0	17.5	28.5	24.0	25.5	17.0	16.0	16.5
18	19.5	17.5	18.5	19.5	17.0	18.0	27.0	24.0	25.0	17.5	16.5	17.0
19	20.0	17.0	18.5	21.5	18.0	19.5	27.0	23.0	25.5	16.5	16.0	16.0
20	20.0	17.0	19.0	20.0	18.5	19.0	24.0	22.5	23.0	18.0	16.5	17.0
21	18.5	17.5	18.0	19.0	18.0	19.0	24.5	22.5	23.5	19.5	17.5	18.5
22	21.0	18.0	19.5	20.5	18.5	19.5	24.5	22.0	23.0	21.0	19.0	20.0
23	22.5	19.0	20.5	23.0	19.5	21.0	23.0	21.0	22.0	21.0	17.0	20.0
24	19.5	18.5	19.0	22.5	19.5	21.0	22.0	19.5	20.5	16.5	13.5	15.0
25	20.5	17.5	19.0	23.5	19.5	21.5	20.0	17.0	18.5	14.0	11.0	13.0
26	22.0	18.5	20.0	25.5	21.0	23.0	19.5	15.5	17.0	15.5	13.5	14.5
27	23.0	19.5	21.0	25.5	21.5	23.5	19.0	15.0	17.0	14.0	11.5	13.0
28	21.5	19.5	20.5	24.5	21.5	23.0	18.0	16.0	17.0	12.5	9.5	11.0
29	21.0	18.0	19.0	22.5	19.0	21.0	18.0	16.5	17.5	14.5	10.5	12.5
30	20.5	16.0	18.0	21.0	17.5	19.0	20.5	18.5	19.5	14.5	12.0	13.0
31	---	---	---	21.0	17.0	19.0	20.5	18.0	19.0	---	---	---
MONTH	28.5	14.5	18.5	25.5	16.0	20.0	30.0	15.0	21.0	23.0	9.5	17.0
YEAR	30.0	.0	10.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.4	8.5	9.5	13.1	11.6	12.6	12.9	10.7	12.2	14.3	14.0	14.2
2	9.9	8.4	9.1	11.9	8.8	11.0	13.3	12.5	13.0	14.0	13.1	13.6
3	9.7	8.4	9.0	12.3	11.8	12.0	13.0	11.7	12.2	13.8	12.9	13.4
4	10.0	9.1	9.6	13.1	12.1	12.5	13.3	11.4	12.5	14.2	13.8	14.1
5	10.4	9.5	9.9	12.2	11.0	11.7	13.7	12.6	13.4	14.3	14.1	14.2
6	11.1	10.0	10.4	10.9	10.0	10.7	13.9	13.2	13.6	14.3	14.1	14.2
7	11.4	10.3	10.8	11.8	11.0	11.3	13.5	13.0	13.3	14.3	14.1	14.2
8	11.3	6.8	10.8	12.5	11.8	12.1	13.3	12.9	13.1	14.1	13.9	14.0
9	11.9	10.9	11.4	12.1	11.7	11.9	13.8	13.2	13.5	14.3	13.9	14.1
10	11.6	10.3	11.0	12.6	11.4	12.0	13.8	13.0	13.7	14.5	14.2	14.3
11	10.6	10.0	10.3	12.1	11.4	11.8	14.0	13.5	13.7	14.4	14.3	14.3
12	11.3	10.4	10.8	12.9	12.2	12.6	14.0	13.8	13.9	14.4	13.9	14.2
13	11.8	11.1	11.4	13.4	11.9	12.8	13.9	13.5	13.7	14.2	13.6	13.9
14	12.3	11.0	11.6	12.8	11.9	12.2	13.7	13.5	13.6	14.4	14.0	14.2
15	11.9	10.6	11.4	12.8	12.1	12.4	13.7	13.5	13.6	14.0	13.1	13.5
16	11.7	10.6	11.2	13.1	11.8	12.6	13.8	13.7	13.8	14.1	13.4	13.8
17	11.0	9.9	10.5	11.8	8.9	11.3	13.7	13.4	13.6	14.2	13.6	14.0
18	10.2	9.2	9.8	-	-	-	13.7	13.5	13.6	14.2	13.6	13.9
19	10.7	9.5	10.1	-	-	-	13.7	13.6	13.7	13.8	13.5	13.6
20	11.8	10.4	11.1	12.6	9.7	11.1	13.7	13.5	13.6	14.0	13.3	13.7
21	12.5	11.3	11.9	10.5	9.7	10.0	-	-	-	14.5	13.6	14.2
22	11.3	6.2	10.8	10.6	10.2	10.4	-	-	-	14.4	14.3	14.3
23	11.5	11.1	11.3	10.9	10.3	10.7	14.6	14.3	14.5	14.4	14.2	14.3
24	11.5	10.9	11.3	10.7	10.1	10.4	14.3	12.5	14.0	14.2	11.1	13.3
25	11.8	11.3	11.5	10.7	10.0	10.4	13.7	12.8	13.3	14.0	10.9	13.6
26	12.3	11.5	11.9	10.7	9.9	10.3	14.3	12.2	13.6	13.8	12.9	13.5
27	12.7	11.9	12.2	10.2	9.3	9.9	14.4	13.8	14.2	13.1	11.8	12.9
28	12.8	11.8	12.3	10.5	8.7	9.2	13.9	12.7	13.3	13.5	11.4	12.8
29	12.7	11.9	12.2	10.7	9.7	10.2	14.2	13.4	13.9	13.1	11.1	12.4
30	12.9	12.2	12.5	11.1	10.6	10.9	14.5	13.9	14.1	11.2	10.7	11.0
31	13.4	12.6	12.9	---	---	---	14.1	13.9	14.0	11.4	10.7	11.0
MONTH	13.4	6.2	11.0	13.4	8.7	11.3	14.6	10.7	13.5	14.5	10.7	13.6

CONNECTICUT RIVER BASIN

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 upstream from intersection with CT 151.

DRAINAGE AREA.--111 mi².

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 and current year are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Fish ladder, maximum recorded, 32.0°C Aug. 13, 1988; minimum recorded 0.0°C Nov. 14, 1986, Nov. 12, 1987. Salmon River, maximum, 31.5°C Aug. 13, 1988; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Fish ladder, maximum recorded, 30.5°C Aug. 6; minimum recorded, 0.0°C Nov. 25, 26. Salmon River, maximum, 30.5°C Aug. 6; minimum, 0.0°C on many days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

TAKEN IN FISHWAY

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

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

CONNECTICUT RIVER BASIN

01193630 SALMON RIVER, AT LEESVILLE FISHWAY, AT LEESVILLE, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989--Continued

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

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 downstream from Salmon River and 3.7 mi upstream from Chester Creek.

DRAINAGE AREA.--11,092 mi².

PERIOD OF RECORD.--Water years 1968, 1974 to current year.

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLOR, APHA (COLO. / 100 ML)	STREPTOCOCCI, PER 100 ML
OCT										
04...	1000	147	7.45	14.0	20.5	2.9	8.2	91	--	--
17...	0850	165	6.93	18.0	15.0	0.60	8.7	86	--	--
NOV										
16...	1230	110	7.66	17.0	7.5	3.0	10.8	90	2300	210
JAN										
11...	1100	155	7.48	4.0	1.0	4.4	13.0	89	2300	800
24...	1340	163	7.31	13.5	3.0	--	13.0	96	--	--
FEB										
06...	1500	168	6.95	4.5	3.5	--	12.0	90	--	--
21...	1410	164	7.00	14.5	4.0	--	12.8	98	--	--
MAR										
13...	1200	156	7.36	4.0	2.0	1.5	12.8	91	46	K19
27...	1005	139	7.35	15.0	7.0	4.2	11.7	94	--	--
APR										
12...	1015	86	6.76	11.0	5.5	9.7	12.2	94	--	--
24...	1240	100	7.28	13.5	9.5	4.2	10.9	96	--	--
MAY										
08...	1015	77	7.15	14.0	11.0	15	11.0	99	520	140
30...	0900	111	7.31	22.0	18.0	3.6	7.7	80	--	--
JUN										
14...	0900	99	7.27	19.5	17.0	5.4	8.3	85	--	--
26...	0910	115	7.09	27.0	23.5	3.3	6.7	79	--	--
JUL										
10...	0930	135	7.72	23.0	26.5	3.0	8.4	104	37	K4
25...	0905	142	7.34	28.0	25.0	2.9	7.7	92	--	--
AUG										
09...	0935	139	7.79	22.0	25.0	1.7	7.6	91	--	--
23...	0900	133	7.14	27.0	25.5	3.0	6.8	84	--	--
SEP										
05...	1010	141	8.27	23.0	22.0	3.4	10.2	114	20	K1
20...	0950	147	7.20	25.5	20.5	3.5	6.7	74	--	--

[illegible]

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT										
04...	--	--	--	0.400	0.420	0.140	0.160	0.76	0.90	1.3
17...	--	--	--	0.600	0.560	0.350	0.320	0.35	0.70	1.3
NOV										
16...	72	0.390	0.010	0.400	--	0.140	--	0.56	0.70	1.1
JAN										
11...	104	0.590	0.010	0.600	0.580	0.460	0.460	0.44	0.90	1.5
24...	--	--	--	0.600	0.610	0.430	0.420	0.27	0.70	1.3
FEB										
06...	--	--	--	0.600	0.570	0.450	0.450	0.35	0.80	1.4
21...	--	--	--	0.700	0.680	0.370	0.360	0.43	0.80	1.5
MAR										
13...	92	0.680	0.020	0.700	0.670	0.440	0.430	0.26	0.70	1.4
27...	--	--	--	0.600	0.560	0.270	0.270	0.33	0.60	1.2
APR										
12...	--	--	--	0.300	0.370	0.110	0.100	0.39	0.50	0.80
24...	--	--	--	0.400	0.390	0.130	0.130	0.57	0.70	1.1
MAY										
08...	--	0.290	0.010	0.300	0.480	0.060	0.050	0.64	0.70	1.0
30...	--	--	--	0.400	0.450	0.140	0.130	0.36	0.50	0.90
JUN										
14...	--	--	--	0.300	0.370	0.070	0.090	0.23	0.30	0.60
26...	--	--	--	0.500	0.510	0.130	0.130	0.37	0.50	1.0
JUL										
10...	78	0.480	0.020	0.500	0.550	0.020	0.020	0.58	0.60	1.1
25...	--	--	--	0.600	0.510	0.140	0.100	0.66	0.80	1.4
AUG										
09...	--	--	--	0.400	0.440	0.040	0.020	0.26	0.30	0.70
23...	--	--	--	0.400	0.430	0.120	0.120	0.48	0.60	1.0
SEP										
05...	75	0.460	0.040	0.500	0.450	0.040	0.010	0.86	0.90	1.4
20...	--	--	--	0.500	0.590	0.220	0.210	0.28	0.50	1.0

DATE	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, 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)
OCT										
04...	0.090	0.060	0.060	0.050	--	--	--	--	--	--
17...	0.140	0.120	0.110	0.100	--	--	--	--	--	--
NOV										
16...	0.070	0.040	--	--	<1	16	<1	<1	5	<1
JAN										
11...	0.080	0.060	0.060	0.050	<1	<1	1	<1	2	2
24...	0.100	0.070	0.060	0.060	--	--	--	--	--	--
FEB										
06...	0.100	0.070	0.070	0.060	--	--	--	--	--	--
21...	0.100	0.070	0.060	0.050	--	--	--	--	--	--
MAR										
13...	0.110	0.080	0.090	0.080	1	<1	2	1	2	4
27...	0.090	0.040	0.030	0.020	--	--	--	--	--	--
APR										
12...	0.070	0.020	0.020	0.020	--	--	--	--	--	--
24...	0.050	0.030	0.010	0.010	--	--	--	--	--	--
MAY										
08...	0.100	0.020	0.020	0.010	<1	<1	5	2	6	2
30...	0.070	0.040	0.020	0.030	--	--	--	--	--	--
JUN										
14...	0.080	0.030	0.030	0.020	--	--	--	--	--	--
26...	0.050	0.030	0.030	0.020	--	--	--	--	--	--
JUL										
10...	0.070	0.030	0.020	0.010	<1	<1	2	2	4	3
25...	0.080	0.040	0.020	0.020	--	--	--	--	--	--
AUG										
09...	0.100	0.030	0.030	0.030	--	--	--	--	--	--
23...	0.080	0.040	0.040	0.040	--	--	--	--	--	--
SEP										
05...	0.090	0.020	<0.010	0.020	<1	<1	<1	1	4	2
20...	0.090	0.060	0.060	0.060	--	--	--	--	--	--

CONNECTICUT RIVER BASIN

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

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 southeast of Old Saybrook, and at mouth of Connecticut River.

DRAINAGE AREA.--11,269 mi².

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

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

GAGE.--Water-stage recorder. Datum of reference gage is 4.56 ft below National Geodetic Vertical Datum of 1929. Datum of gage-height record is 4.56 ft 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 north at Lynde Point, at datum 5.12 ft lower.

REMARKS.--Stage data in feet at 15-minute intervals available upon request. No gage-height record: June 9 to July 18 and Sept. 6-30.

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 6.65 ft, Feb. 6, 1978; minimum, -3.69 ft, Feb. 8, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation recorded, 5.61 ft, Oct. 22; minimum, -3.52 ft, May 8.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	5.61	3.45	3.65	3.75	3.35	3.53	3.48	3.68	3.48	3.17	3.48	3.00
	Date	22	5 24	18	7	25	24	8	11	2	20	23	1
	Time	0630	2015 1030	0600	0945	0130	2345	0015	0215	2115	2400	1545	1130
Minimum Low tide	Elevation	-2.16	-3.36	-2.44	-3.04	-3.34	-2.17	-2.52	-3.52	-2.07	-1.77	-1.60	-1.14
	Date	27	21	26	13	9	6	7	8	3	23	18	1
	Time	1745	1445	1830	2030	1830	1515	0430	0515	2215	0730	0500	0445

NOTE.--Time shown is eastern standard.

RESERVOIRS IN CONNECTICUT RIVER BASIN

- 01185000 OTIS RESERVOIR.--Lat 42°09'35", long 73°03'33", Berkshire County, Mass., Hydrologic Unit 01080207, on Fall River in West Branch Farmington River basin, 1 mi northeast of Cold Spring. Drainage area, 15.9 mi². Usable capacity, 780,000,000 ft³. 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", Litchfield County, Conn., Hydrologic Unit 01080207, on West Branch Farmington River, 1.6 mi upstream from West Branch Reservoir and 3.1 mi north of Riverton. Drainage area, 119 mi². Usable capacity, 4,213,000,000 ft³. 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 west of Hartland, and 2 mi north of Riverton. Drainage area, 127 mi². Usable capacity, 374,000,000 ft³. 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 northwest of Winsted. Drainage area, 18.3 mi². Usable capacity, 423,000,000 ft³, including 8,000,000 ft³ 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 southwest of Winsted. Drainage area, 3.50 mi². Usable capacity, 64,500,000 ft³. Records available, February 1971 to current year. Completed in 1970 by Corps of Engineers for storage of water for flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186160 HIGHLAND LAKE.--Lat 41°55'22", long 73°04'58", Litchfield County, Conn., Hydrologic Unit 01080207, at head of the Lake Stream, a tributary of Mad River in West Branch Farmington River basin, at Winsted, and 0.4 mi upstream from Mad River. Drainage area, 7.05 mi². Usable capacity, 144,400,000 ft³, based on Lake Survey by Connecticut 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 south of Barkhamsted. Drainage area, 52.5 mi². Usable capacity, 4,050,000,000 ft³. 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 east of New Hartford. Drainage area, including Barkhamsted Reservoir, 61.2 mi². Usable capacity, 393,000,000 ft³. 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 northwest of Collinsville. Drainage area, 31.5 mi². Usable capacity, 1,270,000,000 ft³. 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. Usable capacity, 5,050,000 ft³. 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 1988 TO SEPTEMBER 1989

Date	01185000 OTIS RESERVOIR	01185850 COLEBROOK RIVER LAKE	01185900 WEST BRANCH RESERVOIR	01186090 MAD RIVER DETENTION RESERVOIR	01186150 SUCKER BROOK RESERVOIR
Sept. 30, 1988.....	695.7	372	187	8.4	0.13
Oct. 31.....	589.7	446	163	8.5	.09
Nov. 30.....	408.5	1273	364	8.8	.26
Dec. 31.....	352.0	1324	403	8.6	.17
Jan. 31, 1989.....	364.3	980	284	8.6	.09
Feb. 28.....	411.8	847	380	8.6	.13
Mar. 31.....	471.5	1063	331	8.8	.22
Apr. 30.....	612.0	1585	332	8.6	.17
May 31.....	691.8	2310	391	8.6	.17
June 30.....	707.2	2175	408	8.6	.17
July 31.....	703.3	1602	376	8.4	.13
Aug. 31.....	699.5	1021	324	8.4	.13
Sept. 30.....	695.7	569	401	8.4	.17

Date	01186160 HIGHLAND LAKE	01187500 BARKHAMSTED RESERVOIR	01187600 EAST BRANCH RESERVOIR	01187900 NEPAUG RESERVOIR	01188500 WHIGVILLE RESERVOIR
Sept. 30, 1988.....	107.3	3216	177	903	5.9
Oct. 31.....	41.6	3043	177	875	6.0
Nov. 30.....	40.5	3372	251	1117	8.7
Dec. 31.....	45.0	3374	304	1146	5.8
Jan. 31, 1989.....	61.5	3336	349	1149	6.7
Feb. 28.....	80.2	3393	241	1128	6.1
Mar. 31.....	108.2	3492	284	1151	8.0
Apr. 30.....	139.7	3887	348	1240	7.2
May 31.....	141.3	4054	340	1269	8.7
June 30.....	140.5	4054	359	1269	8.1
July 31.....	139.5	3907	346	1253	7.0
Aug. 31.....	137.4	3848	352	1227	6.6
Sept. 30.....	129.4	3812	292	1187	8.3

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 north of Clinton.

DRAINAGE AREA.--5.68 mi².

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

REVISED RECORDS.-- WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 34.81 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--7 years, 9.91 ft³/s, 23.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s, based on contracted-opening measurement, June 6, 1982, gage height, 8.29 ft; minimum, 0.02 ft³/s, Sept. 21, 1983, gage height, 0.97 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 2	0030	132	3.34	Aug. 11	1900	*169	*3.72
21	0045	155	3.54				

Minimum discharge, 0.23 ft³/s, Nov. 1, gage height, 1.07 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	17	22	8.2	8.5	e10	30	20	9.9	2.4	1.9	3.3
2	.29	63	17	7.9	7.5	e9.8	20	38	9.1	2.2	1.7	2.8
3	.44	21	15	7.6	8.0	e9.6	19	29	7.0	2.0	1.7	2.5
4	.54	14	13	e6.0	8.2	9.3	22	20	6.9	1.8	1.5	2.2
5	.53	9.9	11	e4.8	e6.2	9.3	20	16	7.1	11	1.4	2.0
6	.45	13	10	e4.6	e5.5	9.9	29	27	6.7	22	1.3	1.9
7	.42	9.5	e9.0	e4.3	e5.1	e7.5	25	21	19	9.1	1.5	1.9
8	1.7	7.1	e8.4	6.5	e4.8	e6.7	46	16	25	7.6	2.1	1.9
9	2.5	6.0	e7.6	8.5	e4.5	e6.4	33	14	41	4.3	1.5	1.8
10	1.5	5.6	e7.0	6.6	e4.3	e6.2	25	15	61	7.9	1.2	1.8
11	1.1	6.2	e6.5	5.8	e4.2	6.4	20	60	26	26	65	1.8
12	.84	5.3	5.8	7.0	e4.1	6.8	17	44	15	9.1	110	1.7
13	.68	6.6	e5.6	14	e4.0	e6.5	15	29	15	5.8	53	1.6
14	.58	14	e6.4	8.9	14	6.2	14	22	14	5.2	24	1.8
15	.62	9.4	7.6	17	16	6.4	15	18	16	6.7	15	5.0
16	.65	7.2	e6.7	15	17	6.3	52	20	28	4.4	11	3.6
17	.68	12	e6.0	11	e10	5.9	31	28	27	20	8.5	7.4
18	.81	16	e5.7	9.2	e7.5	6.7	23	20	20	12	6.6	4.7
19	.99	13	e5.3	9.1	e6.5	12	18	15	13	7.4	5.6	7.6
20	.94	57	e5.0	8.6	e6.0	8.1	15	13	9.6	5.8	5.6	10
21	1.1	94	8.1	e6.5	33	19	14	12	8.0	6.0	4.9	6.0
22	6.5	37	11	e5.6	47	15	12	11	7.5	5.2	4.7	4.5
23	7.4	25	9.8	e5.2	29	10	11	9.2	6.4	4.3	4.0	4.0
24	5.1	19	17	e4.9	e18	14	10	28	6.8	3.5	3.7	3.8
25	5.0	15	25	e4.6	e14	52	9.8	32	5.6	3.0	3.0	3.2
26	2.7	13	15	7.4	e12	27	9.2	18	4.4	2.7	2.7	7.9
27	2.1	14	11	14	e11	19	8.7	18	3.8	2.5	2.6	7.0
28	1.9	65	11	9.8	e11	16	8.1	17	3.3	2.4	2.5	4.4
29	1.8	42	14	8.2	---	14	7.8	12	3.4	2.7	5.0	3.7
30	1.8	27	11	9.4	---	13	30	9.9	2.7	2.1	8.7	3.2
31	1.6	---	9.3	10	---	28	---	9.2	---	2.0	4.5	---
TOTAL	53.51	663.8	322.8	256.2	326.9	383.0	609.6	661.3	428.2	209.1	366.4	115.0
MEAN	1.73	22.1	10.4	8.26	11.7	12.4	20.3	21.3	14.3	6.75	11.8	3.83
MAX	7.4	94	25	17	47	52	52	60	61	26	110	10
MIN	.25	5.3	5.0	4.3	4.0	5.9	7.8	9.2	2.7	1.8	1.2	1.6
CFSM	.30	3.90	1.83	1.46	2.06	2.18	3.58	3.76	2.51	1.19	2.08	.67
IN.	.35	4.35	2.11	1.68	2.14	2.51	3.99	4.33	2.80	1.37	2.40	.75

CAL YR 1988 TOTAL 2813.59 MEAN 7.69 MAX 94 MIN .20 CFSM 1.35 IN. 18.43
WTR YR 1989 TOTAL 4395.81 MEAN 12.0 MAX 110 MIN .25 CFSM 2.12 IN. 28.79

e Estimated

01195146 POND MEADOW BROOK AT KILLINGWORTH, CT

LOCATION.--Lat 41°22'57", long 72°35'22", Middlesex County, Hydrologic Unit 01100004, on left bank 20 ft upstream from Abner Lane, 700 ft downstream from Route 148 and Kroopa Pond, and 2.1 mi northwest of Killingworth.

DRAINAGE AREA.--5.92 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder and concrete weir. Datum of gege is 288.10 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except records poor for periods when iron bacteria caused partial obstruction to the intake pipe. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 11.85 ft³/s, 27.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 265 ft³/s, Apr. 1, 1987, gage height, 3.23 ft; minimum, 0.01 ft³/s, Aug. 2, 1987, gage height, 1.01 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1,370 ft³/s, by culvert and dam computation 700 ft upstream from gage at Route 148, June 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 198 ft³/s, Aug. 12, gage height, 3.01 ft; minimum, 0.19 ft³/s, Oct. 1, 2, gage height, 1.15 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	8.5	38	10	12	13	41	29	9.1	4.6	2.8	3.7
2	.24	45	28	9.9	11	12	31	44	8.6	3.9	2.7	3.4
3	.35	43	23	9.5	11	12	27	55	7.5	3.5	3.1	3.1
4	.42	25	20	8.6	9.9	e11	29	37	7.1	3.3	3.3	2.7
5	.49	16	16	6.6	8.6	11	28	24	7.1	7.3	3.0	2.4
6	.47	15	13	e5.6	8.0	12	36	38	6.3	26	2.6	2.2
7	.44	14	12	e5.0	e7.0	e10	37	39	8.4	19	2.5	1.9
8	2.5	10	11	6.6	e6.2	9.2	52	26	19	12	2.6	1.6
9	3.9	9.4	11	9.4	e5.7	8.9	54	19	28	7.7	2.2	1.5
10	3.5	8.1	9.8	8.3	5.4	8.7	45	18	77	9.8	1.8	e1.4
11	2.8	7.7	9.0	7.8	5.1	8.5	37	74	52	31	44	e1.4
12	2.1	6.9	7.3	8.7	4.9	8.7	29	83	27	20	167	e1.3
13	1.9	8.5	6.4	14	4.7	8.5	25	53	21	12	135	e1.2
14	1.4	18	6.6	11	11	8.2	23	34	16	12	64	e2.0
15	1.1	17	e6.5	19	16	8.5	22	26	16	22	29	e5.2
16	.95	14	e6.3	20	18	8.3	49	24	30	14	20	e4.0
17	.81	18	e6.1	16	13	7.9	65	35	44	29	13	e7.6
18	.67	25	e5.9	13	e9.7	8.7	49	33	52	28	9.9	e5.2
19	.55	21	e5.7	13	e8.5	11	39	26	42	20	8.1	7.3
20	.53	51	e5.6	12	e7.4	11	32	20	26	13	7.3	11
21	.50	146	7.7	11	23	18	26	16	17	13	6.7	9.5
22	7.0	80	9.0	9.0	53	19	22	13	14	11	6.8	7.9
23	9.4	43	9.3	8.2	44	15	34	11	12	9.2	6.2	6.6
24	6.7	26	14	8.0	31	17	20	20	13	7.4	5.9	5.8
25	5.8	19	22	e7.6	e20	55	14	24	13	5.7	4.9	4.9
26	5.1	16	16	9.0	e16	47	13	20	11	4.7	4.2	7.7
27	4.4	14	11	15	e14	34	12	18	9.3	4.1	3.8	9.0
28	4.1	51	11	14	e13	23	11	18	7.3	3.7	3.6	6.3
29	3.9	66	14	12	---	19	10	14	6.4	3.4	3.7	6.4
30	3.6	52	12	13	---	17	24	12	5.6	3.2	4.7	5.5
31	3.5	---	10	14	---	32	---	10	---	2.9	4.3	---
TOTAL	79.32	894.1	383.2	334.8	397.1	493.1	936	913	612.7	366.4	578.7	139.7
MEAN	2.56	29.8	12.4	10.8	14.2	15.9	31.2	29.5	20.4	11.8	18.7	4.66
MAX	9.4	146	38	20	53	55	65	83	77	31	167	11
MIN	.20	6.9	5.6	5.0	4.7	7.9	10	10	5.6	2.9	1.8	1.2
CFSM	.43	5.03	2.09	1.82	2.40	2.69	5.27	4.97	3.45	2.00	3.15	.79
IN.	.50	5.62	2.41	2.10	2.50	3.10	5.88	5.74	3.85	2.30	3.64	.88

CAL YR 1988 TOTAL 3732.24 MEAN 10.2 MAX 146 MIN .06 CFSM 1.72 IN. 23.45
WTR YR 1989 TOTAL 6128.12 MEAN 16.8 MAX 167 MIN .20 CFSM 2.84 IN. 38.51

e Estimated

QUINNIPIAC RIVER BASIN

01195490 QUINNIPIAC RIVER AT SOUTHTON, CT

LOCATION.--Lat 41°36'06", long 72°53'03", Hartford County, Hydrologic Unit 01100004, on west bank, 400 feet downstream of bridge on Mill Street, and 500 feet upstream of bridge on Center Street in Southington.

DRAINAGE AREA.--17.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 138.47 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 464 ft³/s, May 24, 1989, gage height, 7.65 ft;

minimum, 6.4 ft³/s, Oct. 20, 1988, gage height, 2.41 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0430	357	6.78	May 24	1900	*464	*7.65
May 2	1915	297	6.27	June 10	0645	231	5.66
6	1400	293	6.24	Aug. 13	1530	275	6.08
11	1015	373	6.91				

Minimum discharge, 6.4 ft³/s, Oct. 20, gage height, 2.41 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	23	30	17	17	17	87	33	52	28	16	17
2	7.1	117	27	16	16	17	52	180	52	27	15	16
3	9.7	37	24	e15	18	16	42	149	51	25	15	15
4	7.8	17	22	e14	18	16	44	64	43	23	14	14
5	7.1	16	21	e13	15	16	45	50	40	28	14	14
6	6.8	39	20	e13	14	19	71	216	52	37	13	14
7	7.1	20	20	e12	e13	17	61	120	76	27	13	14
8	18	15	20	e14	e13	15	72	68	83	30	14	14
9	13	13	19	17	e13	15	60	56	84	22	13	16
10	8.8	12	17	15	e12	15	49	69	195	35	12	20
11	7.7	12	16	14	12	15	42	313	85	91	96	18
12	7.5	11	15	16	12	16	38	191	58	32	256	18
13	7.2	20	14	27	12	16	36	109	79	25	246	18
14	7.0	42	e15	17	16	15	35	81	72	25	138	23
15	6.8	19	16	29	20	15	38	69	72	24	58	58
16	6.9	15	e15	25	27	16	104	92	123	22	42	26
17	6.9	29	e14	18	18	15	63	136	82	63	35	46
18	6.9	33	e13	16	15	20	46	79	63	35	30	26
19	6.9	19	e12	17	14	28	43	62	53	25	27	30
20	6.7	101	14	16	e13	19	39	56	47	23	26	44
21	6.9	282	16	15	36	29	36	54	43	59	28	44
22	43	84	16	13	64	29	34	56	42	30	29	29
23	33	44	15	13	37	21	32	47	40	23	24	28
24	12	33	21	13	25	26	31	313	51	21	21	30
25	9.7	27	48	13	20	110	31	274	40	19	19	20
26	9.0	25	25	18	18	60	30	108	35	18	18	32
27	8.5	23	18	29	19	38	29	83	34	17	17	29
28	8.4	74	23	18	18	33	28	73	33	25	17	19
29	8.4	62	45	16	---	30	28	60	32	19	19	17
30	8.0	37	25	20	---	36	43	54	29	21	33	16
31	7.7	---	19	19	---	92	---	53	---	18	20	---
TOTAL	317.4	1301	635	528	545	842	1389	3368	1841	917	1338	725
MEAN	10.2	43.4	20.5	17.0	19.5	27.2	46.3	109	61.4	29.6	43.2	24.2
MAX	43	282	48	29	64	110	104	313	195	91	256	58
MIN	6.7	11	12	12	12	15	28	33	29	17	12	14
CFSM	.59	2.49	1.18	.98	1.12	1.56	2.66	6.24	3.53	1.70	2.48	1.39
IN.	.68	2.78	1.36	1.13	1.17	1.80	2.97	7.20	3.94	1.96	2.86	1.55

CAL YR 1988 TOTAL 8694.8 MEAN 23.8 MAX 282 MIN 6.7 CFSM 1.37 IN. 18.59
WTR YR 1989 TOTAL 13746.4 MEAN 37.7 MAX 313 MIN 6.7 CFSM 2.16 IN. 29.39

e Estimated

QUINNIPIAC RIVER BASIN

157

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 west of Meriden, and 1.7 mi upstream from Hanover Pond.

DRAINAGE AREA.--69.6 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)
OCT												
17...	1310	32	395	7.42	20.0	12.5	0.90	7.0	66	4500	300	130
NOV												
15...	1230	129	238	7.44	15.0	7.0	4.1	10.2	84	480	350	73
DEC												
12...	1415	80	325	7.78	<-5.0	2.0	1.4	13.0	93	32000	32000	110
JAN												
13...	0915	138	743	7.33	2.0	2.0	9.9	12.6	91	660	3400	92
MAR												
20...	1020	122	285	7.50	11.0	6.5	3.8	11.4	91	2200	560	88
APR												
12...	1330	193	254	7.27	14.0	9.0	2.2	12.0	102	21	32	79
MAY												
17...	0925	888	135	7.28	24.5	13.5	6.2	8.4	80	2000	2000	42
JUN												
14...	1340	389	201	7.50	23.5	16.0	3.4	8.4	84	2900	940	64
JUL												
10...	1405	103	283	7.61	30.0	20.0	2.7	7.8	87	190	84	99
AUG												
09...	1235	89	342	7.57	24.5	18.0	1.9	6.8	71	88	24	110
SEP												
05...	1415	101	304	7.54	25.0	18.0	2.1	8.8	92	5900	250	100

DATE	HARD- NESS NONCARB WAT TOT FLD MG/L AS 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 SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT												
17...	--	40	6.2	--	29	34	--	233	0.32	20.3	259	4.12
NOV												
15...	29	23	3.9	45	23	23	11	159	0.22	55.4	160	1.44
DEC												
12...	--	34	5.1	--	22	27	--	184	0.25	39.5	209	2.37
JAN												
13...	35	30	4.1	57	25	170	11	393	0.53	146	422	2.26
MAR												
20...	--	28	4.3	--	21	34	--	173	0.23	57.0	184	1.95
APR												
12...	--	25	4.0	--	20	26	--	158	0.21	82.3	163	1.78
MAY												
17...	15	13	2.3	27	13	13	7.4	77	0.10	185	108	0.590
JUN												
14...	--	20	3.3	--	15	19	--	135	0.18	142	152	1.10
JUL												
10...	30	32	4.7	69	17	26	13	172	0.23	47.8	189	2.37
AUG												
09...	--	36	5.2	--	22	31	--	219	0.30	52.6	219	3.76
SEP												
05...	--	33	4.8	--	18	27	--	175	0.24	47.7	189	3.76

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
OCT												
17...	0.080	4.20	1.60	0.80	2.4	6.6	1.20	1.10	<1	2	<1	<1
NOV												
15...	0.060	1.50	0.370	0.73	1.1	2.6	0.280	0.250	<1	<1	1	<1
DEC												
12...	0.230	2.60	1.00	0.90	1.9	4.5	0.520	0.420	<1	<1	2	<1
JAN												
13...	0.040	2.30	0.470	0.33	0.80	3.1	0.260	0.250	1	<1	3	<1
MAR												
20...	0.050	2.00	0.310	0.69	1.0	3.0	0.370	0.330	<1	<1	<1	<1
APR												
12...	0.020	1.80	0.140	0.26	0.40	2.2	0.190	0.170	1	<1	6	2
MAY												
17...	0.010	0.600	0.060	0.64	0.70	1.3	0.080	0.060	<1	<1	2	1
JUN												
14...	0.100	1.20	0.190	0.61	0.80	2.0	0.230	0.100	2	<1	<1	<1
JUL												
10...	0.030	2.40	0.060	0.64	0.70	3.1	0.290	0.250	1	2	2	2
AUG												
09...	0.040	3.80	0.090	0.71	0.80	4.6	0.550	0.510	<1	<1	2	<1
SEP												
05...	0.040	3.80	0.100	0.50	0.60	4.4	0.400	0.360	<1	<1	1	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	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												
17...	6	3	240	--	<5	<5	--	4	2	100	100	4.6
NOV												
15...	7	10	390	150	<5	<5	74	7	5	50	47	5.8
DEC												
12...	13	4	320	--	<5	<5	--	7	6	70	59	3.9
JAN												
13...	16	3	770	73	<5	<5	160	6	1	80	64	4.5
MAR												
20...	6	5	340	--	6	<5	--	9	<1	50	39	4.7
APR												
12...	6	2	280	--	<5	<5	--	3	1	40	27	3.7
MAY												
17...	30	5	570	140	8	1	36	14	1	30	24	6.2
JUN												
14...	8	3	670	--	5	2	--	10	2	50	20	5.4
JUL												
10...	7	3	490	97	9	<1	84	6	1	30	23	3.6
AUG												
09...	8	4	280	--	3	1	--	3	3	40	24	3.5
SEP												
05...	6	2	280	--	3	<1	--	1	1	20	30	3.3

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 downstream from bridge on Quinnipiac Street in Wallingford, and 2 mi upstream from Wharton Brook.
DRAINAGE AREA.--115 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder and timber control. Datum of gage is 19.24 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 27, 1965, at datum 1.00 ft higher.

REMARKS.--Records good except for periods of estimated record, which are fair. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, (see p. 166), and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merimere and Elmere Reservoirs for municipal supply of Meriden. See REVISIONS summary paragraph in WSP 1901.

AVERAGE DISCHARGE (adjusted for storage and diversion since October 1960).--59 years, 214 ft³/s, 25.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,200 ft³/s, June 6, 1982, gage height, 14.02 ft; minimum, 8 ft³/s, Nov. 2, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 2	0100	1050	6.17	May 17	0830	1130	6.38
21	0030	2280	8.89	25	0630	*2440	*9.14
Feb. 21	1930	997	6.02	June 10	0400	1500	7.28
Mar. 31	2330	947	5.86	16	0230	1160	6.45
May 2	1300	1840	8.08	July 10	2130	1360	6.93
7	0430	1420	7.08	Aug. 11	1930	2220	8.78
12	0400	1980	8.36				

Minimum daily discharge, 44 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	253	249	148	145	154	663	212	342	171	118	156
2	46	582	220	140	138	148	439	1120	394	164	114	143
3	61	355	e200	e135	148	146	324	1130	364	158	109	128
4	57	168	e185	e125	150	145	334	545	356	154	103	121
5	50	143	e170	e115	128	145	322	394	328	192	101	118
6	48	247	e160	e105	122	141	422	841	302	229	97	117
7	48	213	e155	e100	e115	e130	404	1150	379	189	100	116
8	130	147	e150	133	e110	e122	582	536	463	180	101	114
9	104	124	e140	144	e103	e118	446	398	707	157	94	110
10	79	115	e135	127	e98	e115	363	453	1390	401	90	108
11	68	110	e128	120	e95	e113	306	1680	857	543	1020	107
12	58	102	e122	139	e92	123	274	1610	445	279	1400	103
13	53	227	e118	187	e90	e120	254	876	475	190	1650	99
14	52	287	e130	150	143	120	242	586	473	185	1160	127
15	53	198	133	212	170	122	267	443	479	196	552	264
16	54	141	e125	206	200	125	615	532	862	166	308	196
17	54	252	122	158	155	121	481	1010	640	394	270	216
18	59	258	119	140	126	161	340	730	473	278	229	190
19	55	179	116	140	e113	206	304	472	371	197	206	217
20	55	874	e113	138	e104	159	269	384	315	170	202	249
21	54	1730	129	129	451	212	243	361	284	198	207	309
22	250	863	141	113	501	211	227	345	270	204	208	265
23	195	384	140	e108	343	168	211	303	259	169	197	84
24	132	306	189	e103	241	214	201	1730	302	152	193	195
25	91	259	290	e98	195	610	192	2190	264	143	167	164
26	77	228	222	146	174	438	186	1030	232	134	150	201
27	71	212	161	214	e165	287	180	683	213	123	141	207
28	69	435	180	167	e160	240	172	551	201	173	139	165
29	67	435	279	140	---	219	167	428	195	151	182	146
30	65	302	213	154	---	296	239	366	182	123	373	136
31	63	---	167	162	---	683	---	339	---	140	200	---
TOTAL	2362	10129	5101	4396	4775	6312	9669	23428	12817	6303	10181	4871
MEAN	76.2	338	165	142	171	204	322	756	427	203	328	162
MAX	250	1730	290	214	501	683	663	2190	1390	543	1650	309
MIN	44	102	113	98	90	113	167	212	182	123	90	84
(+)	-0.2	+17.3	-34.6	+42.6	+3.5	+4.2	+7.5	+5.8	-0.2	+2.4	+7.6	+3.7
MEAN†	76.0	355	130	185	174	208	330	762	427	205	336	166
CFSM†	.66	3.09	1.13	1.61	1.51	1.81	2.87	6.63	3.71	1.78	2.92	1.44
IN†	.76	3.45	1.30	1.86	1.57	2.09	3.20	7.64	4.14	2.05	3.37	1.61

CAL YR 1988 TOTAL 61082 MEAN 167 MAX 1730 MIN 30 MEAN† 169 CFSM† 1.47 IN† 19.96
WTR YR 1989 TOTAL 100344 MEAN 275 MAX 2190 MIN 44 MEAN† 280 CFSM† 2.43 IN† 33.04

† Change in contents in Wolcott and Broad Brook Reservoirs, diversion from Wolcott Reservoir, and diversion into the basin from Merimere 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.

e Estimated

QUINNIPIAC RIVER BASIN

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-54, 1957, 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1969 to December 1970.

WATER TEMPERATURES: November 1969 to December 1970.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1956-57 are available in Connecticut office at Hartford, Conn.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 530 microsiemens July 16, 1970; minimum recorded, 47 microsiemens 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
03...	0920	75	400	7.68	17.5	17.5	7.1	8.4	88	--	--
17...	1205	53	390	7.70	19.5	13.0	1.0	9.7	92	120	38
NOV											
15...	1130	195	250	7.56	18.0	8.0	16	11.4	96	1300	1500
DEC											
12...	1300	118	350	7.90	-4.0	2.0	1.8	13.2	94	22	K15
JAN											
11...	1330	122	456	7.75	5.0	3.0	3.8	14.5	105	290	K14
25...	1705	114	362	8.11	-1.0	4.5	--	14.9	113	--	--
FEB											
07...	1043	119	399	7.11	-0.5	3.0	--	13.5	99	--	--
22...	1115	505	232	7.78	5.5	4.5	--	12.6	98	--	--
MAR											
13...	1430	125	367	8.19	4.5	6.0	3.0	15.5	123	29	K1
28...	1610	232	267	7.82	23.0	13.0	4.3	11.2	107	--	--
APR											
12...	1235	273	274	7.46	13.0	10.0	2.9	12.2	106	210	20
25...	1510	193	300	8.58	19.5	14.0	3.5	13.0	127	--	--
MAY											
08...	1340	446	192	7.22	14.0	14.0	6.0	9.8	94	660	42
31...	0910	337	256	7.60	21.0	16.5	4.6	9.3	94	--	--
JUN											
14...	1200	483	226	7.58	25.0	17.0	7.5	9.4	95	420	45
27...	0905	212	294	7.53	29.5	22.0	3.1	8.3	95	--	--
JUL											
10...	1245	145	304	7.85	30.5	24.0	2.3	8.0	96	200	120
25...	0940	138	302	7.28	29.0	22.0	3.4	7.8	88	--	--
AUG											
09...	1145	92	354	7.90	25.0	21.5	2.3	8.2	92	80	30
22...	0900	201	300	7.57	24.0	21.5	3.4	8.0	91	--	--
SEP											
05...	1315	119	330	7.86	24.5	19.0	2.6	9.0	95	500	580
19...	0825	154	260	7.47	19.0	17.5	8.2	9.1	94	--	--

QUINNIPIAC RIVER BASIN

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01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH MAT TOT FLD 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, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	130	--	38	7.4	--	31	38	--	234	0.32	33.5
NOV											
15...	84	32	26	4.7	52	20	23	10	144	0.20	75.8
DEC											
12...	110	--	35	6.4	--	24	32	--	212	0.29	67.5
JAN											
11...	120	42	36	6.4	74	25	74	13	258	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	110	--	35	6.5	--	29	41	--	208	0.28	70.2
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	89	--	27	5.2	--	19	30	--	167	0.23	123
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	59	19	18	3.5	40	15	20	8.7	124	0.17	149
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	75	--	23	4.2	--	14	21	--	126	0.17	164
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	100	30	32	5.5	73	19	29	12	192	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	120	--	37	6.4	--	22	33	--	204	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	110	--	34	5.9	--	21	31	--	197	0.27	63.3
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT										
03...	--	--	--	4.60	4.50	0.180	0.180	0.92	1.1	5.7
17...	255	3.82	0.280	4.10	4.20	0.850	0.870	0.65	1.5	5.6
NOV										
15...	165	--	<0.010	0.200	--	<0.010	--	--	0.03	0.23
DEC										
12...	223	3.03	0.070	3.10	--	0.400	--	0.50	0.90	4.0
JAN										
11...	287	3.75	0.050	3.80	3.90	1.40	1.50	3.2	4.6	8.4
25...	--	--	--	3.50	<0.100	0.390	<0.010	0.31	0.70	4.2
FEB										
07...	--	--	--	3.50	3.30	0.300	0.320	0.50	0.80	4.3
22...	--	--	--	1.30	1.40	0.300	0.290	0.70	1.0	2.3
MAR										
13...	210	3.34	0.060	3.40	3.40	0.180	0.170	0.52	0.70	4.1
28...	--	--	--	1.80	1.70	0.070	0.080	0.43	0.50	2.3
APR										
12...	177	1.54	0.060	1.60	1.50	0.100	0.090	0.40	0.50	2.1
25...	--	--	--	1.80	1.70	0.060	0.070	0.44	0.50	2.3
MAY										
08...	136	0.880	0.020	0.900	0.850	0.090	0.090	0.41	0.50	1.4
31...	--	--	--	1.70	1.70	0.230	0.240	0.47	0.70	2.4
JUN										
14...	162	1.35	0.050	1.40	1.40	0.130	0.150	0.47	0.60	2.0
27...	--	--	--	2.10	2.10	0.210	0.170	0.29	0.50	2.6
JUL										
10...	200	2.34	0.060	2.40	2.50	0.090	0.090	0.41	0.50	2.9
25...	--	--	--	2.20	2.50	0.130	0.120	0.57	0.70	2.9
AUG										
09...	204	3.55	0.050	3.60	3.60	0.090	0.090	0.61	0.70	4.3
22...	--	--	--	2.30	2.20	0.080	0.090	0.62	0.70	3.0
SEP										
05...	201	3.45	0.050	3.50	3.10	0.100	0.070	0.60	0.70	4.2
19...	--	--	--	2.20	1.30	0.110	0.110	0.39	0.50	2.7

DATE	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS, 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)
OCT										
03...	0.720	0.710	0.620	0.570	--	--	--	--	--	--
17...	0.730	0.630	0.660	0.570	<1	1	<1	<1	8	4
NOV										
15...	0.010	0.010	--	--	1	<1	10	4	13	4
DEC										
12...	0.400	0.280	--	--	<1	1	2	<1	7	4
JAN										
11...	0.500	0.410	0.450	0.400	1	<1	13	4	7	3
25...	0.340	0.250	0.260	<0.010	--	--	--	--	--	--
FEB										
07...	0.430	0.330	0.350	0.300	--	--	--	--	--	--
22...	0.280	0.030	0.140	0.120	--	--	--	--	--	--
MAR										
13...	0.400	0.330	0.360	0.310	<1	<1	1	<1	4	4
28...	0.220	0.150	0.160	0.130	--	--	--	--	--	--
APR										
12...	0.160	0.110	0.110	0.090	1	<1	3	<1	8	3
25...	0.210	0.150	0.170	0.130	--	--	--	--	--	--
MAY										
08...	0.150	0.090	0.080	0.080	<1	1	14	5	13	6
31...	0.160	0.150	0.150	0.130	--	--	--	--	--	--
JUN										
14...	0.280	0.090	0.110	0.100	<1	<1	2	<1	12	3
27...	0.240	0.190	0.210	0.170	--	--	--	--	--	--
JUL										
10...	0.250	0.020	0.220	0.200	<1	<1	1	1	6	3
25...	0.360	0.280	0.300	0.270	--	--	--	--	--	--
AUG										
09...	0.580	0.510	0.530	0.500	<1	<1	2	<1	9	5
22...	0.300	0.230	0.220	0.200	--	--	--	--	--	--
SEP										
05...	0.410	0.330	0.360	0.330	<1	<1	1	<1	7	3
19...	0.470	0.320	0.370	0.320	--	--	--	--	--	--
DATE	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										
03...	--	--	--	--	--	--	--	--	--	--
17...	410	--	<5	<5	--	7	2	20	18	4.5
NOV										
15...	960	140	<5	<5	99	12	11	50	29	5.4
DEC										
12...	450	--	<5	<5	--	7	4	40	30	3.3
JAN										
11...	450	22	<5	<5	180	13	12	50	56	3.7
25...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	350	--	<5	<5	--	3	6	30	15</	

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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 downstream from Wharton Brook and 0.9 mi upstream from Watermans Brook.

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

REMARKS.--Stream tidal affected.

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (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 TOTAL (MG/L AS CaCO3)
OCT 03...	1005	405	7.46	17.0	18.5	4.4	5.4	58	--	--	--
17...	1110	450	7.57	20.0	14.0	0.8	6.0	58	2300	1200	130
NOV 15...	0925	295	7.56	13.0	8.0	8.5	9.6	81	2500	1500	94
DEC 12...	1210	320	7.79	-5.0	1.5	1.8	12.0	84	1100	400	110
JAN 11...	1245	483	7.56	4.0	3.0	2.1	12.2	89	2100	160	120
25...	1610	356	7.61	1.5	5.0	--	11.1	85	--	--	--
FEB 07...	1155	482	7.40	-1.0	4.0	--	10.7	81	--	--	--
22...	1225	237	7.66	6.0	5.0	--	12.1	95	--	--	--
MAR 13...	1345	383	7.49	4.5	5.0	4.0	12.6	97	180	38	110
28...	1525	288	7.18	23.5	12.0	5.2	10.6	99	--	--	--
APR 12...	1150	288	7.26	13.0	9.0	2.6	10.8	91	540	84	92
25...	1405	322	7.80	18.5	12.5	4.0	10.6	100	--	--	--
MAY 08...	1230	191	7.14	14.0	14.0	6.4	9.0	87	900	110	59
31...	0955	265	7.63	27.0	16.5	4.6	8.2	83	--	--	--
JUN 14...	1045	246	7.48	24.5	16.0	7.7	8.3	83	400	240	81
27...	1000	314	7.52	30.0	22.0	5.8	6.0	69	--	--	--
JUL 10...	1135	332	7.59	29.0	22.0	2.8	5.6	64	170	120	110
25...	1025	336	7.50	29.0	22.0	6.3	6.5	74	--	--	--
AUG 09...	1100	386	7.50	24.5	20.0	1.6	5.8	63	110	34	120
22...	0915	310	7.56	26.0	22.0	7.0	6.5	74	--	--	--
SEP 05...	1230	359	7.47	24.0	18.0	2.7	7.1	74	2100	50	110
19...	0915	298	7.56	19.5	18.5	5.8	7.1	75	--	--	--

[illegible]

QUINNIPIAC RIVER BASIN
01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, 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)	PHOS- PHOROUS TOTAL (MG/L AS P)
OCT										
03...	--	--	4.40	4.30	2.10	2.20	3.9	6.0	10	0.860
17...	4.78	0.320	5.10	--	1.50	--	9.5	11	16	1.00
NOV										
15...	2.34	0.060	2.40	--	0.290	--	1.9	2.2	4.6	0.440
DEC										
12...	3.32	0.080	3.40	--	0.660	--	3.7	4.4	7.8	0.440
JAN										
11...	3.67	0.030	3.70	3.80	0.220	0.210	0.48	0.70	4.4	0.460
25...	--	--	4.20	4.40	1.10	1.10	4.7	5.8	10	0.440
FEB										
07...	--	--	3.60	3.20	0.540	0.560	2.5	3.0	6.6	0.380
22...	--	--	1.60	1.60	0.330	0.300	1.2	1.5	3.1	0.300
MAR										
13...	3.54	0.060	3.60	3.60	0.370	0.350	3.0	3.4	7.0	0.470
28...	--	--	2.00	1.90	0.310	0.320	1.8	2.1	4.1	0.250
APR										
12...	2.09	0.110	2.20	2.00	0.570	0.520	1.1	1.7	3.9	0.220
25...	--	--	2.40	2.40	0.350	0.380	1.3	1.7	4.1	0.280
MAY										
08...	1.17	0.030	1.20	0.930	0.160	0.150	0.74	0.90	2.1	0.170
31...	--	--	2.00	2.00	0.250	0.260	0.85	1.1	3.1	0.230
JUN										
14...	1.64	0.060	1.70	1.80	0.190	0.220	0.81	1.0	2.7	0.230
27...	--	--	2.40	2.40	0.470	0.470	1.8	2.3	4.7	0.390
JUL										
10...	2.43	0.070	2.50	2.60	0.360	0.370	2.8	3.2	5.7	0.410
25...	--	--	2.30	2.60	0.170	0.180	1.6	1.8	4.1	0.450
AUG										
09...	4.89	0.110	5.00	4.20	0.580	0.550	4.0	4.6	9.6	0.680
22...	--	--	2.10	2.10	0.250	0.260	1.7	1.9	4.0	0.380
SEP										
05...	3.99	0.110	4.10	3.80	0.760	0.720	1.0	1.8	5.9	0.420
19...	--	--	2.40	2.40	0.160	0.170	2.0	2.2	4.6	0.480

DATE	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, 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										
03...	0.680	0.650	0.610	--	--	--	--	--	--	--
17...	0.890	0.860	--	<1	1	11	5	12	6	480
NOV										
15...	0.350	--	--	<1	<1	4	1	14	10	960
DEC										
12...	0.330	--	--	1	<1	2	<1	16	5	370
JAN										
11...	0.380	0.400	0.350	<1	<1	3	2	6	4	380
25...	0.320	0.330	0.290	--	--	--	--	--	--	--
FEB										
07...	0.280	0.290	0.250	--	--	--	--	--	--	--
22...	0.170	0.100	0.140	--	--	--	--	--	--	--
MAR										
13...	0.370	0.370	0.330	1	<1	2	<1	6	4	330
28...	0.170	0.170	0.130	--	--	--	--	--	--	--
APR										
12...	0.140	0.130	0.110	1	<1	7	4	12	4	520
25...	0.190	0.200	0.160	--	--	--	--	--	--	--
MAY										
08...	0.110	0.090	0.080	<1	2	6	2	15	7	820
31...	0.150	0.170	0.150	--	--	--	--	--	--	--
JUN										
14...	0.140	0.130	0.120	<1	1	4	<1	13	4	1400
27...	0.280	0.270	0.260	--	--	--	--	--	--	--
JUL										
10...	0.280	0.270	0.230	<1	<1	13	1	10	4	670
25...	0.360	0.350	0.330	--	--	--	--	--	--	--
AUG										
09...	0.580	0.570	0.540	<1	<1	3	5	12	8	370
22...	0.240	0.240	0.210	--	--	--	--	--	--	--
SEP										
05...	0.350	0.370	0.350	<1	<1	<1	<1	9	4	320
19...	0.360	0.380	0.340	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

QUINNIPIAC RIVER BASIN

RESERVOIRS IN QUINNIPIAC RIVER BASIN

01195800 WOLCOTT RESERVOIR.--Lat 41°36'35", long 72°05'08", New Haven County, Conn., Hydrologic Unit 01100004, on Roaring Brook in Eightmile River basin, 2.1 mi northeast of Wolcott. Drainage area, 2.45 mi². Completed in 1904 for storage of water for municipal supply of city of New Britain. Usable capacity, 22,700,000 ft³. 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 southwest of Meriden. Drainage area, 4.85 mi². Completed in 1907 for storage of water for municipal supply of city of Meriden. Usable capacity, 134,000,000 ft³. 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 1988 TO SEPTEMBER 1989

Date	01195800 WOLCOTT RESERVOIR	01196225 BROAD BROOK RESERVOIR
Sept. 30, 1988.....	4.5	116
Oct. 31.....	3.5	113
Nov. 30.....	20.3	134
Dec. 31.....	17.0	29.4
Jan. 31, 1989.....	12.4	134
Feb. 28.....	8.5	134
Mar. 31.....	15.3	134
Apr. 30.....	21.0	134
May 31.....	22.7	134
June 30.....	21.1	134
July 31.....	13.4	131
Aug. 31.....	12.8	134
Sept. 30.....	7.6	131

01196620 MILL RIVER NEAR HAMDEN, CT

LOCATION.--Lat 41°25'15", long 72°54'12", New Haven County, Hydrologic Unit 01100004, 150 ft downstream bridge on Mount Carmel Avenue, 0.4 mi downstream from Eatons Brook, and 2.5 mi north of Hamden.

DRAINAGE AREA.--24.5 mi².

PERIOD OF RECORD.--October 1968 to September 1970, October 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 82.57 ft above National Geodetic Vertical Datum of 1929.

October 1, 1968 to September 30, 1970, 150 ft upstream at datum 0.73 ft higher.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 50.3 ft³/s, 27.87 in.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,580 ft³/s, June 6, 1982, by contracted-opening measurement 0.7 mi downstream, gage height, 9.53 ft; minimum, 1.6 ft³/s, Aug. 29, 1981, gage height, 1.06 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	0115	609	3.05	June 10	0230	445	2.71
May 2	1300	580	2.99	Aug. 11	2045	638	3.11
11	0730	*648	*3.13	13	0900	417	2.65
24	1430	585	3.00				

Minimum discharge, 4.1 ft³/s, Jan. 4, gage height, 1.11 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	36	51	26	28	35	169	50	78	29	14	32
2	5.3	102	46	e23	26	32	95	365	73	27	13	29
3	9.3	41	42	e21	29	31	88	215	62	25	13	25
4	6.8	20	39	19	29	31	86	109	63	25	13	23
5	5.8	21	38	e18	23	e30	79	91	63	34	12	22
6	5.6	54	35	e18	e22	e30	106	284	61	43	11	22
7	5.9	29	e33	e17	e21	28	86	172	69	33	12	22
8	17	19	e31	26	e20	25	134	113	80	44	12	22
9	13	16	29	30	19	24	101	94	169	27	9.8	20
10	8.4	14	e27	23	18	24	84	125	322	58	9.6	19
11	7.0	14	e26	22	e17	24	71	490	128	111	240	19
12	6.0	13	25	26	e16	26	64	273	86	43	386	18
13	5.9	39	25	42	e16	26	60	167	103	30	369	17
14	5.7	66	27	27	34	26	56	128	89	33	192	22
15	5.9	33	26	47	41	27	67	107	111	38	108	61
16	6.2	23	24	40	46	26	191	160	227	27	76	31
17	6.2	44	e23	29	28	24	101	288	133	89	61	40
18	5.5	52	e23	26	23	34	80	157	101	46	48	30
19	5.2	31	22	28	22	45	76	113	79	31	43	40
20	5.2	196	22	28	21	31	64	96	67	26	43	50
21	5.2	406	29	22	114	49	59	92	60	27	48	43
22	37	138	30	e20	149	43	55	89	58	24	62	31
23	22	86	26	e19	80	32	51	75	53	22	42	30
24	12	67	37	e17	52	46	49	438	65	19	40	35
25	9.0	56	70	e17	42	191	46	292	52	18	34	25
26	7.8	49	41	31	38	90	44	157	45	17	32	39
27	7.1	45	30	52	39	62	43	137	41	16	30	34
28	6.9	111	34	32	36	52	41	118	38	19	30	26
29	7.1	90	51	27	---	49	41	90	35	18	38	23
30	6.7	59	34	32	---	71	65	81	31	15	87	21
31	6.5	---	29	32	---	184	---	77	---	14	43	---
TOTAL	268.3	1970	1025	837	1049	1448	2352	5243	2642	1028	2171.4	871
MEAN	8.65	65.7	33.1	27.0	37.5	46.7	78.4	169	88.1	33.2	70.0	29.0
MAX	37	406	70	52	149	191	191	490	322	111	386	61
MIN	5.1	13	22	17	16	24	41	50	31	14	9.6	17
CFSM	.35	2.68	1.35	1.10	1.53	1.91	3.20	6.90	3.59	1.35	2.86	1.19
IN.	.41	2.99	1.56	1.27	1.59	2.20	3.57	7.96	4.01	1.56	3.30	1.32

CAL YR 1988 TOTAL 10550.4 MEAN 28.8 MAX 406 MIN 3.7 CFSM 1.18 IN. 16.02
WTR YR 1989 TOTAL 20904.7 MEAN 57.3 MAX 490 MIN 5.1 CFSM 2.34 IN. 31.74

e Estimated

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 west of coast guard station, at buoy, can "15" 1.6 mi downstream from West River, 2.1 mi downstream from Quinnipiac River and 2.2 downstream from Mill River.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	SALINITY (PPT)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECA, 0.45 UM-MF (COLS./100 ML)
NOV 14...	1530	5.00	39000	7.88	25.0	13.0	11.0	2.9	8.0	85	21
JAN 19...	1430	5.00	40200	8.17	26.0	11.0	4.0	3.7	12.8	115	27
MAY 18...	1200	5.00	30000	7.85	19.0	23.0	15.5	2.9	8.6	95	48
JUL 13...	1345	5.00	37600	7.81	24.0	25.5	21.0	2.4	6.4	82	56

DATE	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (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)
NOV 14...	K10	4300	4200	240	900	99	2200	18000	2.4	28500
JAN 19...	K4	4100	4000	260	850	97	2200	16000	1.6	27500
MAY 18...	K7	2300	2200	560	220	83	1800	11000	2.2	22600
JUL 13...	K12	4700	4600	300	960	91	2000	14000	1.7	26000

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)	PHOSPHOROUS TOTAL (MG/L AS P)
NOV 14...	38.8	30500	0.210	0.090	0.300	0.490	0.81	1.3	1.6	0.120
JAN 19...	37.4	32100	0.250	0.050	0.300	0.260	0.44	0.70	1.0	0.110
MAY 18...	30.7	21700	0.180	0.020	0.200	0.150	0.55	0.70	0.90	0.070
JUL 13...	35.4	29000	--	0.010	<0.100	0.140	0.26	0.40	--	0.100

DATE	PHOSPHOROUS 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 14...	0.120	1	<1	5	160	<5	60	5	50	3.9
JAN 19...	0.080	<1	<1	2	140	<5	40	<1	30	4.0
MAY 18...	0.060	<1	<1	3	130	5	60	1	40	2.6
JUL 13...	0.050	<2	<4	<2	150	<2	110	<2	20	2.9

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 southwest of Canaan, 2.5 mi downstream from Blackberry River, 2.8 mi upstream from Hollenbeck River, and 3.7 mi upstream from Falls Village Dam.

DRAINAGE AREA.--586 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1015	368	355	8.04	9.0	10.5	1.0	9.4	86	60	36
NOV 07...	1140	1840	245	8.02	8.0	9.0	3.1	11.3	102	210	86
DEC 15...	1230	958	322	8.04	4.0	0.5	1.6	12.6	90	110	36
JAN 09...	1115	920	310	7.73	0.0	0.5	1.9	12.8	90	59	K17
MAR 17...	1200	622	347	8.32	15.0	6.0	1.4	12.9	104	K18	K15
APR 17...	1050	2640	245	8.02	17.0	6.0	7.5	12.4	101	21	K6
MAY 12...	1040	4710	205	7.87	16.0	10.0	3.9	10.2	92	380	450
JUN 16...	1200	2770	229	7.80	22.0	15.0	2.6	9.3	93	1200	1000
JUL 17...	1110	760	294	7.94	19.0	20.0	2.6	7.8	88	120	61
AUG 10...	1010	435	359	8.29	20.0	20.0	1.3	9.2	102	120	31
SEP 02...	1115	340	368	8.14	23.0	20.0	2.4	7.6	86	180	K16

DATE	HARD- NESS TOTAL (MG/L AS CAC03)	HARD- NESS NONCARB WAT TOT FLD MG/L AS CAC03	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 20...	150	--	37	14	--	19	25	--	202	27.0
NOV 07...	100	18	27	9.0	87	17	14	4.0	140	0.19
DEC 15...	140	--	36	12	--	16	18	--	171	0.23
JAN 09...	140	19	35	12	118	17	20	3.9	188	0.26
MAR 17...	140	--	36	13	--	21	25	--	196	0.27
APR 17...	110	--	28	9.2	--	12	16	--	141	0.19
MAY 12...	88	11	23	7.5	77	11	11	3.3	109	0.15
JUN 16...	100	--	27	8.4	--	10	11	--	126	0.17
JUL 17...	130	12	33	11	116	11	17	3.3	175	0.24
AUG 10...	150	--	37	13	--	13	24	--	211	0.29
SEP 02...	150	--	37	13	--	12	32	--	204	0.28

HOUSATONIC RIVER BASIN

01198550 HOUSATONIC RIVER NEAR CANAAN, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 20...	201	205	1.09	0.010	1.10	<0.010	--	0.60	1.7	0.060
NOV 07...	696	159	--	<0.010	0.300	0.050	0.65	0.70	1.0	0.060
DEC 15...	442	178	0.690	0.010	0.700	0.080	0.32	0.40	1.1	0.030
JAN 09...	467	185	0.790	0.010	0.800	0.060	0.34	0.40	1.2	0.030
MAR 17...	329	208	0.690	0.010	0.700	0.070	0.53	0.60	1.3	0.050
APR 17...	1010	154	0.390	0.010	0.400	0.040	0.36	0.40	0.80	0.030
MAY 12...	1390	146	--	<0.010	0.300	0.040	0.16	0.20	0.50	0.030
JUN 16...	942	162	0.390	0.010	0.400	0.030	0.27	0.30	0.70	0.030
JUL 17...	359	177	0.490	0.010	0.500	0.020	0.58	0.60	1.1	0.040
AUG 10...	248	211	0.690	0.010	0.700	<0.010	--	0.60	1.3	0.060
SEP 02...	187	197	0.790	0.010	0.800	0.030	0.57	0.60	1.4	0.030

DATE	PHOS- PHOROUS 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...	0.020	<1	1	2	--	<5	--	<1	6	4.6
NOV 07...	0.030	<1	<1	3	75	<5	21	2	6	5.3
DEC 15...	0.030	<1	<1	5	--	<5	--	<1	<3	3.0
JAN 09...	0.020	<1	<1	2	33	<5	37	<1	8	3.4
MAR 17...	0.010	<1	<1	3	--	<5	--	<1	10	3.7
APR 17...	<0.010	<1	1	<1	--	<5	--	<1	8	3.4
MAY 12...	<0.010	<1	<1	1	53	1	17	1	4	3.8
JUN 16...	0.020	<1	<1	1	--	<1	--	1	6	4.7
JUL 17...	0.030	<1	<1	2	40	1	46	1	4	4.4
AUG 10...	0.030	<1	<1	2	--	<1	--	1	4	4.1
SEP 02...	0.010	<1	<1	3	--	11	--	2	11	4.5

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 upstream from hydroelectric plant of Connecticut Light and Power Company and gaging station at Falls Village, 0.9 mi downstream from Hollenbeck River and 2.0 mi upstream from Salmon Creek.

DRAINAGE AREA.--633 mi².

PERIOD OF RECORD.--Water years 1921, 1956 to current year.

WATER-QUALITY RECORDS: August 8, 1984

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to current year.

COOPERATION.--Records were furnished by the Connecticut Light and Power 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, 23.5°C July 26; minimum daily, 0.5°C on many days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	6.0	4.5	.5	.5	1.0	5.5	12.5	17.5	21.0	22.5	18.0
2	15.5	6.5	4.5	.5	.5	.5	6.0	12.5	18.0	21.5	22.5	18.0
3	15.5	6.5	4.0	.5	.5	1.0	7.0	11.0	17.5	21.5	22.5	18.0
4	14.5	6.5	3.0	.5	.5	1.5	8.0	11.0	18.5	21.5	22.5	18.0
5	14.5	7.5	3.0	.5	.5	1.5	6.0	11.0	18.5	22.5	22.5	18.0
6	13.5	7.5	3.0	.5	.5	1.5	10.0	11.0	18.5	22.5	23.0	17.0
7	13.5	8.0	3.0	.5	.5	.5	11.0	11.0	18.5	22.5	22.5	17.0
8	12.5	8.5	2.5	.5	.5	.5	11.0	11.0	17.5	22.5	21.5	17.0
9	11.5	8.5	2.5	.5	.5	.5	11.5	11.5	17.5	21.5	21.5	17.0
10	11.5	8.5	1.5	.5	.5	1.0	11.5	11.5	17.5	21.5	21.0	17.0
11	11.0	8.0	1.5	.5	.5	.5	9.5	11.0	18.0	21.0	20.5	17.0
12	10.0	7.5	1.5	.5	.5	.5	10.0	11.0	18.0	21.0	19.5	16.5
13	9.5	7.5	1.0	.5	.5	2.0	11.0	11.0	18.5	21.0	19.0	16.5
14	10.0	7.5	1.5	.5	.5	3.0	10.0	11.5	18.5	20.5	20.0	16.5
15	10.0	7.5	1.0	1.0	.5	3.5	9.5	12.0	18.5	20.5	20.5	16.5
16	9.5	8.0	.5	1.0	.5	5.0	8.5	14.0	19.0	21.0	21.5	16.5
17	9.5	8.0	.5	1.0	.5	5.5	7.0	14.5	18.0	20.5	21.5	16.5
18	10.5	8.0	1.0	1.0	1.0	6.5	8.5	15.0	17.5	19.5	21.5	16.5
19	11.0	7.5	.5	1.0	1.0	5.5	9.0	15.5	18.0	20.0	21.0	16.5
20	11.0	7.5	.5	1.0	1.0	4.5	9.5	16.5	19.0	20.0	21.0	15.5
21	10.0	7.5	.5	1.0	1.0	3.5	9.5	18.0	19.5	20.0	21.5	15.0
22	10.0	7.5	.5	1.0	.5	3.5	9.0	17.5	20.0	20.5	21.5	15.0
23	9.5	6.5	.5	1.0	.5	3.5	8.5	17.5	20.5	20.5	21.5	15.5
24	9.0	6.5	.5	1.0	.5	5.0	7.0	16.5	21.0	21.0	21.5	15.5
25	8.5	6.0	1.0	1.0	.5	5.0	8.0	16.5	20.5	21.0	21.0	15.0
26	8.5	6.0	1.0	1.5	.5	5.5	9.5	16.5	21.0	23.5	21.0	14.5
27	6.5	5.5	1.0	1.5	1.5	5.5	10.0	15.5	21.0	23.0	21.0	14.5
28	6.5	5.0	1.0	1.5	1.5	8.0	11.0	15.5	22.5	21.0	20.5	15.0
29	6.0	4.5	.5	2.0	---	8.5	11.5	15.0	22.5	21.0	20.0	15.5
30	6.0	4.5	.5	2.0	---	8.0	11.5	16.0	22.5	21.5	20.5	15.5
31	6.0	---	.5	1.0	---	6.5	---	16.0	---	22.5	20.0	---
MEAN	10.5	7.0	1.5	1.0	.5	3.5	9.0	14.0	19.0	21.5	21.0	16.5
WTR YR 1989	MEAN	10.5		MAX	23.5	MIN	.5					

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 hydro-electric plant of Connecticut Light and Power Company at Falls Village, 1.4 mi downstream from Hollenbeck River, and at mile 75.9.

DRAINAGE AREA.--634 mi².

PERIOD OF RECORD.--Discharge: July 1912 to current year.

Water-quality records: Water years 1974-80.

REVISED RECORDS.--WSP 781: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 529.06 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi downstream at datum 6.72 ft lower.

AVERAGE DISCHARGE.--77 years, 1,085 ft³/s, 23.22 in/yr.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Low flow completely regulated by power plant of Connecticut Light and Power Company. High flow is regulated by flood-control reservoirs from 20.5 mi² in the Blackberry River basin, but does not affect monthly runoff appreciably.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s, Jan. 1, 1949, gage height, 19.4 ft, present datum, from floodmark; practically no flow at times when power plant was shut down; minimum daily, 24 ft³/s, Oct. 15, 1914, Sept. 18, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	2030	4290	6.29	May 12	1300	*4650	*6.53
May 7	1030	4410	6.37	25	1500	3650	5.83

Minimum daily discharge, 156 ft³/s, Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	488	1720	804	535	535	2140	1230	1320	972	539	323
2	490	1170	1520	742	579	471	1940	1770	1330	857	480	301
3	307	1650	1420	704	641	448	1660	3380	1380	768	449	288
4	295	1730	1160	556	544	435	1590	3320	1260	709	439	289
5	292	1340	1150	407	421	442	1640	2840	1100	704	425	284
6	281	1590	1100	439	439	452	2140	3250	1070	961	402	279
7	280	1680	962	519	397	384	3180	4320	1340	1010	371	269
8	294	1610	904	625	327	331	3280	4110	1500	912	365	254
9	315	1150	969	692	422	418	2840	3540	1610	786	369	279
10	252	939	825	577	332	379	2300	2850	2340	776	355	275
11	156	906	e730	530	296	373	1930	3890	2640	1200	379	258
12	273	885	e680	507	309	336	1760	4580	2290	1410	840	227
13	263	899	e660	551	365	351	1630	4360	1900	1170	1800	212
14	339	1230	e640	485	404	378	1470	3820	1860	918	2280	244
15	296	1260	e750	654	457	341	1400	3030	2140	782	1820	516
16	274	1190	e730	655	794	500	1800	2700	2730	692	1210	535
17	279	1110	e710	592	530	483	2410	3440	2680	656	930	469
18	317	1250	e690	535	479	587	2320	3110	2270	614	762	434
19	276	1100	e670	568	367	643	2030	2510	1820	574	645	430
20	321	1330	e660	587	408	523	1760	2040	1500	549	567	463
21	398	3640	e650	502	868	542	1560	1780	1290	804	534	684
22	443	3780	e710	342	2270	456	1420	1620	1170	1130	536	821
23	586	2980	e680	515	2100	495	1270	1400	1210	984	500	749
24	616	2180	e660	462	1320	542	1220	1950	2170	793	463	717
25	605	1760	1050	453	762	963	1030	3480	2570	665	422	644
26	546	1610	1130	501	732	1320	929	3390	2360	591	393	818
27	481	1360	1130	614	677	1490	1030	2750	1810	535	369	1110
28	398	1620	1100	540	573	1570	883	2130	1410	562	354	914
29	327	2200	1190	488	---	1790	866	1780	1270	679	344	745
30	391	2000	1190	465	---	2070	905	1520	1120	722	347	641
31	330	---	913	534	---	2170	---	1370	---	632	340	---
TOTAL	10954	47637	29053	17145	18348	22218	52333	87260	52460	25117	20029	14472
MEAN	353	1588	937	553	655	717	1744	2815	1749	810	646	482
MAX	616	3780	1720	804	2270	2170	3280	4580	2730	1410	2280	1110
MIN	156	488	640	342	296	331	866	1230	1070	535	340	212
CFSM	.56	2.50	1.48	.87	1.03	1.13	2.75	4.44	2.76	1.28	1.02	.76
IN.	.64	2.80	1.70	1.01	1.08	1.30	3.07	5.12	3.08	1.47	1.18	.85

CAL YR 1988 TOTAL 336937 MEAN 921 MAX 5670 MIN 153 CFSM 1.45 IN. 19.77
WTR YR 1989 TOTAL 397026 MEAN 1088 MAX 4580 MIN 156 CFSM 1.72 IN. 23.30

e Estimated

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 upstream from bridge on Uptown Salisbury Road, 0.6 mi north of Lime Rock, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--29.4 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.37 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 47.6 ft³/s, 21.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft³/s, Mar. 6, 1979, gage height, 5.90 ft; minimum, 0.7 ft³/s, Sept. 25, 1964, gage height, 0.77 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of about 13.5 ft, from floodmarks, discharge 6,300 ft³/s, from rating curve extended above 350 ft³/s on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	1030	380	2.91	May 11	1330	338	2.77
Feb. 22	0030	318	2.70	17	0500	*439	*3.01
May 2	2130	321	2.71	25	0030	389	2.86
6	1830	279	2.56				

Minimum discharge, 6.8 ft³/s, Feb. 13, result of freeze up, gage height, 0.88 ft; minimum daily, 8.5 ft³/s, Sept. 10, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	25	64	35	29	22	91	48	79	36	14	14
2	16	101	61	33	31	21	67	191	88	33	13	11
3	15	89	55	e27	27	19	64	195	72	29	13	9.9
4	18	59	51	e22	e24	19	68	114	57	27	11	10
5	16	50	42	e18	e19	19	69	93	53	32	10	9.6
6	15	94	41	e19	21	20	136	216	65	51	10	10
7	16	72	40	e22	20	e17	157	188	70	35	10	10
8	21	59	38	27	e16	e15	122	125	84	28	9.8	9.7
9	19	49	36	30	21	19	101	106	75	24	9.4	9.0
10	17	43	34	25	19	15	89	117	161	48	10	8.5
11	15	38	33	23	e17	15	75	283	100	78	17	8.5
12	15	34	e30	25	16	e14	67	227	80	38	59	9.6
13	16	41	e28	28	15	15	62	165	91	31	118	9.5
14	18	72	e27	24	18	15	63	133	86	29	70	19
15	16	56	30	35	33	19	61	111	118	25	44	59
16	15	48	e30	32	40	22	128	158	160	23	33	27
17	15	62	e29	26	32	19	107	342	112	26	25	20
18	14	68	e29	23	e25	23	87	187	83	24	20	17
19	16	55	e28	26	20	28	76	143	69	21	17	25
20	15	103	e28	26	17	21	67	109	58	21	16	38
21	15	303	e28	e24	116	22	61	91	54	26	24	48
22	24	152	31	e15	158	23	57	81	54	21	33	43
23	22	109	28	22	56	21	52	73	55	17	21	47
24	18	89	33	17	43	23	48	227	118	15	17	44
25	18	75	57	17	e35	74	45	282	69	14	15	35
26	16	66	41	18	e30	67	39	160	54	13	13	84
27	16	61	32	31	25	53	38	131	47	12	12	77
28	16	122	44	23	24	54	44	105	44	31	14	54
29	21	99	76	22	---	65	43	87	47	20	24	44
30	19	73	47	26	---	69	54	75	40	17	20	34
31	18	---	39	27	---	82	---	75	---	19	15	---
TOTAL	527	2367	1210	768	947	930	2238	4638	2343	864	737.2	844.3
MEAN	17.0	78.9	39.0	24.8	33.8	30.0	74.6	150	78.1	27.9	23.8	28.1
MAX	24	303	76	35	158	82	157	342	161	78	118	84
MIN	14	25	27	15	15	14	38	48	40	12	9.4	8.5
CFSM	.58	2.68	1.33	.84	1.15	1.02	2.54	5.09	2.66	.95	.81	.96
IN.	.67	2.99	1.53	.97	1.20	1.18	2.83	5.87	2.96	1.09	.93	1.07

CAL YR 1988 TOTAL 14428.9 MEAN 39.4 MAX 303 MIN 6.1 CFSM 1.34 IN. 18.26
WTR YR 1989 TOTAL 18413.5 MEAN 50.4 MAX 342 MIN 8.5 CFSM 1.72 IN. 23.30

e Estimated

01199290 HOUSATONIC RIVER AT KENT, CT

LOCATION.--Lat 41°44'30", long 73°28'10", Litchfield County, Hydrologic Unit 01100005, 1.55 mi upstream from confluence with Macedonia Brook and 1.23 mi upstream from highway bridge (Rte. 341), near Kent Furnace and below Cobble Brook.

DRAINAGE AREA.--756 mi².

PERIOD OF RECORD.--March 1985 to September 1985 (fragmentary). October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 355.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.-- Records good except those for periods of estimated record, which are fair. Several measurements of water temperature made during the year. Ordinary flow regulated by power plant upstream. High flow is regulated by flood-control reservoirs from 20.5 mi² in the Blackberry River basin, but does not affect monthly runoff appreciably.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 1, 1949, reached a discharge of about 27,000 ft³/s, from runoff comparisons between stations 01199000 and 01200500, for drainage areas of 634 and 996 mi², respectively.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,170 ft³/s, May 12; maximum gage height, 9.00 ft, Dec. 15; minimum daily discharge, 215 ft³/s, Oct. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	870	2420	e1200	764	e750	2780	1590	1860	1300	660	410
2	326	1530	2100	e1100	790	689	2560	2600	1910	1140	574	391
3	534	2130	1900	e1000	832	e670	2310	4250	1970	1000	532	358
4	357	2170	1700	e900	736	640	2100	4080	1770	907	509	352
5	356	1890	1540	e600	e550	642	2250	3550	1570	877	496	347
6	353	2100	1410	e650	e600	647	2870	4840	1470	1140	482	344
7	341	2150	1410	e700	497	604	3940	5540	1800	1380	468	343
8	366	2080	1260	e900	e470	521	4120	5170	2140	1300	427	321
9	380	1660	1310	e1000	487	512	3660	4550	2230	1070	425	327
10	394	1350	1100	e850	e500	507	3040	3990	3020	1130	423	338
11	302	1210	e1000	e800	e420	531	2600	5500	3380	1790	456	323
12	215	1280	e950	e750	e420	452	2340	6050	3020	1760	1160	306
13	612	1250	e900	e800	e500	496	2240	5690	2580	1580	2220	274
14	422	1610	e900	e750	e550	574	2010	5020	2420	1230	2700	276
15	457	1650	e1000	e900	e600	519	1970	4050	2730	1030	2300	543
16	395	1600	e1000	e900	972	565	2550	4430	3660	907	1640	663
17	385	1510	e950	e850	e900	734	3140	5400	3540	863	1240	591
18	357	1720	e950	e800	e650	797	3060	4490	3010	805	1000	520
19	410	1480	e900	e750	e550	859	2720	3650	2440	732	825	502
20	391	2170	e900	e850	e550	737	2330	3010	2040	688	762	576
21	422	5070	e900	e700	1380	756	2140	2600	1840	863	638	843
22	709	5370	e1000	e600	3070	663	1960	2400	1610	1360	664	1040
23	1190	4070	e950	e650	2840	665	1770	2100	1560	1260	619	988
24	1220	3030	e900	e800	2000	683	1690	3060	2470	1040	561	955
25	1170	2420	e1400	e700	1070	1450	1480	4800	3060	843	517	840
26	872	2210	e1500	e800	e1000	1760	1340	4510	2900	728	480	1010
27	672	1890	e1500	e900	e900	2020	1400	3770	2350	651	449	1440
28	620	2500	e1500	e800	801	2040	1260	2980	1860	718	427	1220
29	477	2910	e1700	e750	---	2270	1220	2460	1660	767	431	1010
30	488	2780	e1600	e650	---	2590	1280	2130	1510	862	452	826
31	483	---	e1500	e700	---	2810	---	1950	---	799	430	---
TOTAL	16066	65660	40050	25100	25399	30153	70130	120210	69380	32520	24967	18277
MEAN	518	2189	1292	810	907	973	2338	3878	2313	1049	805	609
MAX	1220	5370	2420	1200	3070	2810	4120	6050	3660	1790	2700	1440
MIN	215	870	900	600	420	452	1220	1590	1470	651	423	274
CFSM	.69	2.90	1.71	1.07	1.20	1.29	3.09	5.13	3.06	1.39	1.07	.81
IN.	.79	3.23	1.97	1.24	1.25	1.48	3.45	5.92	3.41	1.60	1.23	.90

CAL YR 1988 TOTAL 422620 MEAN 1155 MAX 6380 MIN 188 CFSM 1.53 IN. 20.80
WTR YR 1989 TOTAL 537912 MEAN 1474 MAX 6050 MIN 215 CFSM 1.95 IN. 26.47

e Estimated

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 downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi upstream from bridge on U.S. Highway 7 at Gaylordsville, 1.5 mi downstream from Tenmile River, and at mile 50.6.

DRAINAGE AREA.--996 mi².

PERIOD OF RECORD.--Discharge: 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.

Water-quality records: Water years 1960, 1968.

Daily water temperature: Water years 1960, 1968.

Daily suspended-sediment discharge: Water years 1979-80.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft above National Geodetic Vertical Datum of 1929. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi downstream at different datum.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Ordinary flow regulated by power plant upstream. High flow is regulated by flood-control reservoirs from 20.5 mi² in the Blackberry River basin, but does not affect monthly runoff appreciably.

AVERAGE DISCHARGE.--49 years, 1,674 ft³/s, 22.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,800 ft³/s, Aug. 19, 1955, gage height, 18.58 ft; minimum observed, about 30 ft³/s, Oct. 28, 1914, gage height, 2.18 ft, site and datum then in use; minimum daily since July 1940, about 60 ft³/s, Aug. 31, 1944, Sept. 20, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1854 reached a stage of 21 ft 3 in, former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft, from floodmarks, at present site, discharge, 37,000 ft³/s, by computation of peak flow over dam 2.5 mi upstream adjusted for flow from intervening area.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 21	1230	7420	7.52	May 14	0400	6530	7.08
May 7	0445	7070	7.35	17	0015	*9750	*8.57
12	0200	8220	7.90	25	0700	6300	6.96

Minimum daily discharge, 238 ft³/s, Oct. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	397	578	2800	1300	e870	956	3490	1730	2220	1390	712	447
2	293	1410	2510	1150	908	867	3150	3350	2250	1230	626	417
3	602	2080	2240	e1050	958	803	2830	5190	2300	1080	562	353
4	403	2100	2050	e900	904	801	2600	4790	2050	981	566	406
5	369	1870	1820	e700	e700	753	2740	4200	1790	1040	516	364
6	382	2230	1680	e700	759	770	3700	6250	1690	1210	529	341
7	357	2270	1620	745	667	678	5020	6840	2100	1480	488	342
8	398	2130	1500	896	e550	560	5080	6160	2630	1500	470	337
9	348	1690	1490	1040	571	e560	4530	5410	2650	1170	469	333
10	413	1290	1350	1030	506	543	3770	5090	3610	1050	420	366
11	412	1220	1210	859	576	650	3180	7790	3830	2160	520	349
12	238	1160	e1050	832	496	e530	2820	7920	3280	1890	1170	300
13	385	1200	928	913	499	548	2680	7080	2880	1660	2640	326
14	367	1770	932	904	698	689	2450	6190	2720	1320	3040	256
15	477	1750	1150	991	746	e600	2370	5110	3070	1140	2480	505
16	387	1590	1160	e1100	1110	633	3270	6430	4500	990	1780	735
17	389	1590	1140	e950	1040	854	3880	9310	4250	859	1290	614
18	366	1780	1040	e850	810	860	3670	7060	3520	906	1050	509
19	418	1650	989	910	725	942	3280	5430	2820	830	892	612
20	371	2330	1000	978	601	909	2770	4300	2370	787	736	642
21	439	6650	942	905	1620	928	2560	3600	2030	1010	745	944
22	572	6300	1140	685	4480	888	2310	3210	1890	1300	660	1110
23	657	4910	1020	721	3440	808	2090	2750	1910	1290	737	1070
24	820	3730	1080	745	2300	893	1960	4240	2760	1050	583	1020
25	828	2960	1460	e700	1300	1930	1750	6180	3360	902	553	948
26	737	2650	1700	710	1270	2320	1560	5490	3130	809	493	1000
27	663	2230	1310	1110	1150	2340	1560	4670	2550	653	495	1590
28	559	3090	1320	e900	1070	2350	1450	3690	2010	821	426	1310
29	436	3520	1920	e800	---	2640	1400	3020	1820	853	498	1080
30	464	3220	1750	e750	---	3020	1470	2610	1600	973	562	900
31	557	---	1420	e850	---	3420	---	2360	---	823	449	---
TOTAL	14504	72948	44721	27674	31324	36043	85390	157450	79590	35157	27157	19526
MEAN	468	2432	1443	893	1119	1163	2846	5079	2653	1134	876	651
MAX	828	6650	2800	1300	4480	3420	5080	9310	4500	2160	3040	1590
MIN	238	578	928	685	496	530	1400	1730	1600	653	420	256
CFSM	.47	2.44	1.45	.90	1.12	1.17	2.86	5.10	2.66	1.14	.88	.65
IN.	.54	2.72	1.67	1.03	1.17	1.35	3.19	5.88	2.97	1.31	1.01	.73

CAL YR 1988 TOTAL 501932 MEAN 1371 MAX 7030 MIN 206 CFSM 1.38 IN. 18.75
WTR YR 1989 TOTAL 631484 MEAN 1730 MAX 9310 MIN 238 CFSM 1.74 IN. 23.59

e Estimated

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 northwest of New Milford, 6.9 mi downstream from Tenmile River, 1.9 mi upstream from Aspetuck River and 4.7 mi upstream from Still River.

DRAINAGE AREA.--1,022 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1245	220	320	8.50	16.0	11.5	0.60	11.2	103	K19	72
NOV 07...	1355	2380	215	8.12	10.0	9.0	5.5	11.4	101	1300	4400
DEC 19...	1115	1460	322	8.03	-2.0	0.5	1.1	14.9	103	K19	K6
JAN 09...	1330	1290	294	8.01	4.5	0.5	1.2	14.2	98	60	45
MAR 17...	1355	1080	289	9.23	17.0	7.0	0.90	15.8	129	K17	K1
APR 13...	1015	2940	225	7.74	10.0	6.0	1.6	12.9	102	K18	K6
MAY 12...	1305	9060	176	7.85	22.0	11.0	5.5	11.1	101	440	1600
JUN 15...	1215	3520	235	8.09	16.0	15.0	4.4	9.8	96	190	220
JUL 17...	1330	443	277	8.69	22.0	21.0	3.0	9.6	108	88	41
AUG 10...	1315	610	328	8.44	26.0	22.0	2.7	9.9	112	26	K6
SEP 01...	1055	787	338	8.56	28.5	21.0	1.7	9.4	106	53	26

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD 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, DIS- SOLVED (TONS PER AC-FT)
OCT 20...	140	--	34	14	--	15	18	--	177	0.24
NOV 07...	91	16	22	8.7	75	18	11	4.8	120	0.16
DEC 19...	140	--	36	13	--	16	15	--	172	0.23
JAN 09...	130	18	33	12	114	17	16	5.2	160	0.22
MAR 17...	130	--	33	12	--	17	19	--	165	0.22
APR 13...	100	--	26	9.4	--	12	13	--	133	0.18
MAY 12...	77	10	19	7.2	67	11	8.2	4.4	96	0.13
JUN 15...	110	--	27	9.4	--	10	10	--	--	--
JUL 17...	130	12	32	12	117	11	13	3.5	151	0.20
AUG 10...	150	--	38	14	--	13	16	--	192	0.26
SEP 01...	160	--	38	15	--	11	18	--	190	0.26

HOUSATONIC RIVER BASIN

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01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 20...	105	177	--	<0.010	0.400	<0.010	--	0.50	0.90	0.020
NOV 07...	771	132	--	<0.010	0.200	0.020	0.68	0.70	0.90	0.060
DEC 19...	678	189	0.790	0.010	0.800	0.060	0.34	0.40	1.2	0.020
JAN 09...	557	178	0.790	0.010	0.800	0.040	0.26	0.30	1.1	0.030
MAR 17...	481	179	0.290	0.010	0.300	0.060	0.24	0.30	0.60	0.020
APR 13...	1060	135	--	<0.010	0.400	0.040	0.36	0.40	0.80	0.030
MAY 12...	2350	125	--	<0.010	0.300	0.040	0.46	0.50	0.80	0.060
JUN 15...	--	59	0.390	0.010	0.400	0.020	0.68	0.70	1.1	0.040
JUL 17...	181	160	--	<0.010	0.300	0.020	0.58	0.60	0.90	0.030
AUG 10...	316	192	--	<0.010	0.300	0.010	0.49	0.50	0.80	0.030
SEP 01...	404	204	--	<0.010	0.300	0.020	0.48	0.50	0.80	0.020

DATE	PHOS- PHOROUS 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...	<0.010	<1	<1	1	--	<5	--	<1	5	3.8
NOV 07...	0.030	<1	<1	1	81	<5	7	5	9	6.6
DEC 19...	0.010	<1	<1	4	--	<5	--	2	<3	2.7
JAN 09...	0.010	<1	<1	<1	30	<5	10	<1	13	2.8
MAR 17...	<0.010	<1	<1	3	--	<5	--	<1	3	3.0
APR 13...	0.010	<1	<1	2	--	<5	--	1	4	3.3
MAY 12...	0.010	<1	<1	1	52	<1	12	1	7	5.2
JUN 15...	0.020	<1	<1	1	--	<1	--	<1	<3	4.3
JUL 17...	0.010	<1	<1	1	25	<1	6	2	10	4.2
AUG 10...	0.020	<1	<1	2	--	2	--	2	<3	4.0
SEP 01...	0.010	<1	<1	1	--	1	--	<1	9	3.9

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 southwest of Brookfield Center, 4.4 mi upstream from Limekiln Brook, and 8.0 mi upstream from Housatonic River.

DRAINAGE AREA.--60.6 mi².

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 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (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 TOTAL (MG/L AS CaCO3)
OCT												
21...	1030	20	770	7.38	12.0	8.0	1.7	3.6	31	52	200	190
NOV												
08...	1200	77	510	7.58	13.0	8.0	3.7	7.6	65	120	700	140
DEC												
19...	1330	42	530	7.64	1.5	1.0	4.1	10.0	70	58	100	170
JAN												
17...	1215	81	448	7.58	8.0	2.0	5.5	10.6	77	140	130	140
MAR												
16...	1240	59	509	7.60	10.5	8.5	4.0	9.4	79	K17	K9	150
APR												
13...	1255	152	360	7.47	10.0	8.0	3.4	10.6	89	2500	460	130
MAY												
11...	1300	638	197	7.51	13.5	10.0	7.4	9.6	86	640	2700	72
JUN												
15...	1415	355	283	7.57	15.5	15.0	6.0	7.4	73	880	3500	99
JUL												
25...	1125	52	531	7.38	31.0	22.0	2.8	4.4	50	130	120	170
AUG												
11...	1105	37	632	7.35	15.0	18.0	3.2	3.8	40	2700	3100	170
SEP												
01...	1210	42	556	7.50	29.0	20.0	1.4	5.2	58	440	170	150

DATE	HARD- NESS NONCARB WH WAT TOT FLD 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, 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)
OCT												
21...	--	47	18	--	83	100	--	456	0.62	24.2	489	0.490
NOV												
08...	51	36	13	93	30	68	9.5	295	0.40	61.4	309	0.630
DEC												
19...	--	45	15	--	32	50	--	273	0.37	31.3	301	0.970
JAN												
17...	28	36	12	111	37	45	9.2	245	0.33	53.5	281	0.880
MAR												
16...	--	40	13	--	42	57	--	283	0.38	45.3	298	0.940
APR												
13...	--	32	11	--	27	37	--	207	0.28	850	219	0.770
MAY												
11...	17	19	6.0	55	14	17	5.5	117	0.16	202	144	0.380
JUN												
15...	--	26	8.3	--	17	22	--	166	0.23	159	210	0.740
JUL												
25...	52	43	14	113	27	62	8.3	306	0.42	43.4	334	1.71
AUG												
11...	--	42	15	--	56	78	--	364	0.49	36.2	380	1.60
SEP												
01...	--	39	13	--	48	62	--	317	0.43	36.4	321	1.66

HOUSATONIC RIVER BASIN

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01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
OCT 21...	0.110	0.600	9.40	0.60	10	11	1.80	1.60	<1	1	1	<1
NOV 08...	0.070	0.700	2.90	0.70	3.6	4.3	0.640	0.560	1	<1	1	<1
DEC 19...	0.030	1.00	4.20	0.70	4.9	5.9	0.760	0.630	1	<1	2	<1
JAN 17...	0.020	0.900	1.60	2.0	3.6	4.5	0.800	0.700	<1	<1	2	<1
MAR 16...	0.060	1.00	4.60	0.80	5.4	6.4	1.40	1.10	1	<1	2	<1
APR 13...	0.030	0.800	0.990	0.61	1.6	2.4	0.230	0.120	<1	<1	3	<1
MAY 11...	0.020	0.400	0.220	0.38	0.60	1.0	0.140	0.040	3	<1	5	<1
JUN 15...	0.060	0.800	0.390	0.61	1.0	1.8	0.110	0.080	<1	<1	2	<1
JUL 25...	0.290	2.00	3.70	0.90	4.6	6.6	0.150	0.070	6	<1	1	<1
AUG 11...	0.300	1.90	3.40	0.90	4.3	6.2	0.310	0.240	<1	<1	<1	<1
SEP 01...	0.240	1.90	3.50	1.0	4.5	6.4	0.160	0.090	<1	<1	1	<1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	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...	12	6	590	--	5	<5	--	8	7	30	35	11
NOV 08...	13	4	740	210	<5	<5	140	8	3	30	19	9.0
DEC 19...	12	6	530	--	<5	<5	--	9	6	30	20	7.2
JAN 17...	450	5	610	100	<5	<5	110	3	4	30	33	9.2
MAR 16...	19	12	530	--	<5	<5	--	7	2	50	35	8.6
APR 13...	8	2	590	--	<5	<5	--	5	1	20	15	5.1
MAY 11...	<1	3	1400	88	7	2	36	4	1	30	8	4.9
JUN 15...	9	2	1500	--	9	1	--	4	1	30	5	6.5
JUL 25...	6	5	580	38	2	<1	250	5	5	10	13	6.3
AUG 11...	7	1	440	--	3	2	--	7	6	20	17	7.8
SEP 01...	9	<1	620	--	4	1	--	5	5	10	19	5.6

HOUSATONIC RIVER BASIN

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CT

LOCATION.--Lat 41°28'47", long 73°21'04", on Fairfield-Litchfield County line, Hydrologic Unit 01110005, at bridge on State Highway 133, 2.1 mi northeast of Brookfield Center, 2.4 mi upstream from Shepaug River, 2.5 mi upstream from Shepaug Dam on the Housatonic River, and 6.8 mi downstream from Still River.

DRAINAGE AREA.--1,214 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECCAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)
NOV 08...	1030	290	8.40	10.0	9.5	1.5	10.0	88	100	180
JAN 17...	1115	150	7.79	6.0	2.5	1.1	14.0	102	K1	K3
MAR 16...	1130	205	7.28	10.0	2.5	2.1	11.8	86	K2	21
MAY 11...	1120	196	7.83	12.0	12.0	3.5	9.8	91	59	54
JUL 25...	0955	219	9.35	29.0	26.0	1.7	10.2	125	K2	<1
SEP 01...	0910	246	8.69	24.0	24.0	3.4	7.0	83	K6	K2

DATE	HARDNESS TOTAL (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, DIS-SOLVED (TONS PER AC-FT)
NOV 08...	120	22	30	12	102	18	18	1.4	167	0.23
JAN 17...	54	16	13	5.2	38	15	12	5.6	92	0.12
MAR 16...	74	--	18	7.0	--	15	16	--	110	0.15
MAY 11...	87	15	22	7.9	73	11	11	3.9	104	0.14
JUL 25...	97	9	25	8.5	89	11	12	2.2	123	0.17
SEP 01...	110	--	28	10	--	12	14	--	141	0.19

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NITRATE (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)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)
NOV 08...	168	0.280	0.020	0.300	0.010	0.79	0.80	1.1	0.100	0.020
JAN 17...	91	--	<0.010	0.400	0.030	0.57	0.60	1.0	0.030	0.010
MAR 16...	124	0.460	0.040	0.500	0.130	0.37	0.50	1.0	0.050	<0.010
MAY 11...	124	--	<0.010	0.400	0.080	0.52	0.60	1.0	0.050	0.020
JUL 25...	122	--	<0.010	<0.100	<0.010	--	0.90	--	0.020	<0.010
SEP 01...	138	--	<0.010	0.200	0.010	0.59	0.60	0.80	0.030	<0.010

DATE	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 08...	<1	<1	1	25	<5	2	3	<3	4.8
JAN 17...	<1	<1	1	59	<5	6	1	<3	4.3
MAR 16...	<1	<1	<1	--	<5	--	<1	21	4.6
MAY 11...	<1	<1	2	41	2	20	1	3	3.4
JUL 25...	<1	<1	2	6	<1	<1	<1	5	4.7
SEP 01...	<1	<1	1	--	<1	--	<1	5	4.9

HOUSATONIC RIVER BASIN

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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 south of Roxbury Station, 1.2 mi southwest of village of Roxbury, and 2.4 mi upstream from Jacks Brook.

DRAINAGE AREA.--132 mi².

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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, (PER-0.45 UM-MF (COLS./100 ML)
OCT 21...	0900	16	160	8.19	4.0	6.0	0.70	11.7	94	120
NOV 08...	0935	293	128	8.11	10.0	6.5	2.0	11.3	93	110
DEC 19...	0945	317	130	7.07	<-5.0	0.0	0.95	14.2	97	K19
JAN 17...	1015	209	92	7.07	6.0	0.5	1.5	15.1	105	38
MAR 16...	1020	92	133	7.81	7.0	6.0	1.0	13.8	110	K16
APR 13...	0840	357	106	7.30	9.0	5.5	1.1	13.5	106	K10
MAY 11...	1010	2050	74	7.64	14.0	10.0	5.1	11.4	102	980
JUN 15...	0945	493	100	7.77	15.0	15.0	1.7	9.6	94	140
JUL 25...	0845	108	118	7.88	27.0	22.0	2.1	8.8	100	100
AUG 11...	1010	32	141	7.88	15.0	19.0	1.4	8.4	90	460
SEP 01...	0730	81	132	7.82	19.0	18.0	1.5	8.5	90	240

DATE	STREP-TOCOC CI, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (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, DIS-SOLVED (TONS PER AC-FT)
OCT 21...	37	58	14	5.5	--	13	14	--	96	0.13
NOV 08...	330	47	11	4.7	33	13	9.8	3.1	72	0.10
DEC 19...	K14	46	11	4.4	--	15	10	--	69	0.09
JAN 17...	84	42	10	4.1	28	7.0	12	5.0	79	0.11
MAR 16...	K8	45	11	4.3	--	13	12	--	68	0.09
APR 13...	K4	37	8.8	3.6	--	11	10	--	71	0.10
MAY 11...	3600	27	6.6	2.6	17	9.0	5.6	4.6	52	0.07
JUN 15...	1300	36	9.0	3.3	--	9.0	7.5	--	52	0.07
JUL 25...	65	43	11	3.8	35	9.0	9.8	3.4	75	0.10
AUG 11...	3700	48	12	4.4	--	9.0	11	--	74	0.10
SEP 01...	260	49	12	4.6	--	9.0	10	--	75	0.10

HOUSATONIC RIVER BASIN

01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)
OCT 21...	4.15	100	--	<0.010	<0.100	0.010	0.29	0.30	--	0.020
NOV 08...	57.0	82	0.190	0.010	0.200	0.030	0.47	0.50	0.70	0.040
DEC 19...	59.1	81	--	<0.010	0.400	0.010	0.39	0.40	0.80	0.020
JAN 17...	44.6	83	--	<0.010	0.400	0.020	0.38	0.40	0.80	0.030
MAR 16...	16.9	81	0.260	0.040	0.300	0.020	0.28	0.30	0.60	0.040
APR 13...	68.4	71	--	<0.010	0.200	0.020	0.18	0.20	0.40	0.020
MAY 11...	288	73	--	<0.010	0.200	0.030	0.77	0.80	1.0	0.070
JUN 15...	69.2	62	--	<0.010	0.200	0.010	0.39	0.40	0.60	0.040
JUL 25...	21.0	74	--	<0.010	0.200	0.020	0.48	0.50	0.70	0.030
AUG 11...	6.39	80	--	<0.010	0.300	0.030	0.77	0.80	1.1	0.030
SEP 01...	16.4	93	--	<0.010	0.300	0.030	0.47	0.50	0.80	0.040

DATE	PHOS- PHOROUS 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...	0.010	<1	<1	1	--	<5	--	<1	7	3.4
NOV 08...	0.020	<1	<1	3	78	<5	6	3	4	6.0
DEC 19...	0.010	<1	<1	<1	--	<5	--	<1	3	4.1
JAN 17...	0.020	<1	<1	1	86	<5	9	<1	10	4.5
MAR 16...	0.040	<1	<1	<1	--	<5	--	<1	<3	3.4
APR 13...	0.010	<1	<1	1	--	<5	--	1	<3	3.9
MAY 11...	0.020	<1	<1	1	74	<1	11	<1	4	5.3
JUN 15...	0.020	1	<1	1	--	1	--	1	<3	5.2
JUL 25...	<0.010	<1	<1	2	97	<1	19	<1	4	5.1
AUG 11...	<0.010	<1	<1	3	--	<1	--	<1	6	3.6
SEP 01...	0.020	<1	<1	1	--	<1	--	1	7	5.1

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 upstream from bridge on Poverty Road, 800 ft downstream from Bullet Hill Brook, 0.6 mi west of Southbury, and 5.8 mi upstream from mouth.

DRAINAGE AREA.--75.1 mi².

PERIOD OF RECORD.--Discharge: June 1932 to current year.

Water-quality records: Water years 1961, 1965-75.

Daily water temperature: Water years 1961, 1967.

Daily specific conductance: Water years 1960-61.

Daily pH: Water years 1960-61.

Daily iron: Water years 1960-61.

REVISED RECORDS.--WSP 851: 1934(M), 1936(M). WSP 1201: 1933-34, 1935(M), 1937(M). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 165.60 ft above National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers).

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1960 to September 1969).--57 years, 128 ft³/s, 23.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, Aug. 19, 1955, gage height, 21.8 ft, from floodmarks, from rating curve extended above 1,200 ft³/s by computation of peak flow over dam at gage height 16.0 ft and by slope-area measurement of peak flow; minimum, 2.5 ft³/s, Aug. 30, 31, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 6	1650	1650	7.25	May 16	2300	*1800	*7.46
11	0645	1550	7.08	24	1845	1650	7.25

Minimum discharge, 7.7 ft³/s, Oct. 1, gage height, 2.29 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	48	197	e84	90	e70	403	120	198	77	38	46
2	9.4	167	169	e75	90	e67	251	687	214	71	33	41
3	12	67	154	e67	93	e64	237	378	184	64	31	35
4	13	49	140	e60	86	e62	246	246	169	61	28	31
5	11	67	125	56	69	e60	269	213	154	76	26	29
6	9.7	205	115	60	e63	e58	536	1120	166	96	25	27
7	10	88	e105	66	e60	e56	357	521	210	74	23	26
8	14	63	e98	74	e57	e55	328	356	254	79	22	25
9	17	50	e90	87	e54	e54	277	295	331	61	20	24
10	14	43	e82	72	e52	e53	240	406	575	212	18	23
11	13	40	e74	67	e50	e52	204	1060	289	280	107	22
12	12	38	65	73	e48	e60	182	621	210	117	579	21
13	11	62	72	137	e47	e58	169	424	296	88	560	20
14	11	114	81	82	77	e56	169	344	250	75	345	32
15	11	68	81	160	101	69	184	307	303	63	272	134
16	11	56	75	119	137	72	513	778	457	59	154	61
17	14	111	e72	94	76	66	305	1060	370	124	115	65
18	13	119	e67	84	e62	87	244	523	261	83	89	53
19	11	83	e63	e77	e57	118	211	386	205	68	77	65
20	12	588	e60	e72	e53	82	181	318	169	60	74	253
21	13	931	e70	e68	246	125	164	298	154	165	71	241
22	56	326	e65	e64	268	133	151	291	163	98	74	150
23	35	225	e62	e60	165	101	141	235	176	77	67	149
24	22	180	e130	66	117	127	132	1190	296	64	63	110
25	19	149	e270	68	94	378	125	726	176	57	51	83
26	17	135	e175	78	e82	219	117	436	142	50	45	178
27	16	126	e120	148	e77	169	111	384	121	46	41	135
28	16	595	e140	89	e73	155	104	327	107	84	39	97
29	16	330	175	81	---	157	101	262	101	62	44	83
30	15	258	e110	114	---	225	143	228	85	46	103	73
31	15	---	e90	101	---	375	---	209	---	41	59	---
TOTAL	477.6	5381	3392	2603	2544	3483	6795	14749	6786	2678	3293	2332
MEAN	15.4	179	109	84.0	90.9	112	226	476	226	86.4	106	77.7
MAX	56	931	270	160	268	378	536	1190	575	280	579	253
MIN	8.5	38	60	56	47	52	101	120	85	41	18	20
CFSM	.21	2.39	1.46	1.12	1.21	1.50	3.02	6.34	3.01	1.15	1.41	1.04
IN.	.24	2.67	1.68	1.29	1.26	1.73	3.37	7.31	3.36	1.33	1.63	1.16

CAL YR 1988 TOTAL 32023.0 MEAN 87.5 MAX 931 MIN 8.0 CFSM 1.17 IN. 15.86
WTR YR 1989 TOTAL 54513.6 MEAN 149 MAX 1190 MIN 8.5 CFSM 1.99 IN. 27.00

e Estimated

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 Interstate 84 at Riverside, 3.4 mi southwest of Southbury, 0.3 mi downstream from Pomperaug River, 3.6 mi downstream from Shepaug Dam on the Housatonic River, 6.0 mi downstream from Shepaug River and 6.9 mi upstream from Lake Zoar Dam.

DRAINAGE AREA.--1,511 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 08...	1315	288	8.10	13.0	9.5	1.0	9.9	88	39	75
JAN 17...	1330	246	7.84	6.0	1.0	1.6	13.2	93	K18	K8
MAR 16...	1400	277	7.52	13.0	2.5	1.8	12.2	89	K16	<1
MAY 11...	1415	164	7.69	20.0	12.0	5.0	11.0	102	130	980
JUL 25...	1230	251	7.57	33.0	23.0	2.6	4.8	55	28	K13
SEP 01...	1400	244	7.92	30.0	24.0	1.5	6.9	82	88	K2

DATE	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH WAT 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, DIS- SOLVED (TONS PER AC-FT)
NOV 08...	120	23	29	12	99	16	18	2.0	158	0.21
JAN 17...	97	18	24	8.9	79	17	16	6.1	142	0.19
MAR 16...	100	--	26	9.5	--	17	20	--	136	0.18
MAY 11...	66	16	17	5.6	50	11	9.6	4.8	91	0.12
JUL 25...	85	13	22	7.2	72	12	14	6.1	121	0.16
SEP 01...	100	--	26	9.4	--	12	14	--	133	0.18

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)
NOV 08...	175	0.380	0.020	0.400	0.060	0.54	0.60	1.0	0.040	0.020
JAN 17...	139	--	<0.010	0.700	0.120	0.48	0.60	1.3	0.050	0.040
MAR 16...	154	0.690	0.010	0.700	0.230	0.27	0.50	1.2	0.070	0.050
MAY 11...	110	--	<0.010	0.300	0.060	0.24	0.30	0.60	0.060	0.020
JUL 25...	190	0.580	0.020	0.600	0.090	0.41	0.50	1.1	0.050	0.010
SEP 01...	127	0.490	0.010	0.500	<0.010	--	0.60	1.1	0.020	0.020

DATE	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 08...	<1	<1	2	36	<5	8	3	8	4.4
JAN 17...	<1	<1	1	53	<5	25	<1	14	4.1
MAR 16...	<1	<1	1	--	<5	--	<1	34	4.7
MAY 11...	<1	1	1	65	<1	18	1	<3	4.2
JUL 25...	<1	<1	2	70	<1	50	<1	4	3.8
SEP 01...	<1	<1	<1	--	<1	--	<1	4	4.4

01205000 LAKE ZOAR AT STEVENSON, CT

LOCATION.--Lat 41°23'00", long 73°10'18", Fairfield County, Hydrologic Unit 01100005, near power station on Housatonic River at tailrace of dam of Connecticut Light and Power Company at Stevenson, 0.2 mi upstream from gaging station, and 0.4 mi upstream from Eightmile Brook.

DRAINAGE AREA.--1,541 mi².

PERIOD OF RECORD.--Water year 1960 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1960 to current year.

REMARKS.--Many 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, 25.5°C Aug. 8, 9; minimum daily, 0.5°C on many days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	11.0	4.5	1.0	4.0	1.0	5.0	8.0	19.0	23.5	24.5	23.0
2	21.0	11.0	4.5	1.0	3.5	1.0	5.0	8.0	20.0	24.0	24.5	23.0
3	20.0	8.0	4.0	.5	2.0	1.0	5.5	8.5	21.0	24.0	24.0	23.0
4	19.0	8.0	3.5	.5	1.0	1.0	6.5	9.5	19.5	24.0	24.5	23.0
5	19.0	8.0	4.5	-	-	1.5	6.5	9.5	19.0	24.0	24.5	23.0
6	16.0	7.0	4.5	-	-	1.5	6.5	10.0	18.5	24.0	25.0	22.5
7	16.0	7.0	4.5	-	-	1.5	7.0	10.0	18.5	24.5	25.0	22.5
8	15.0	10.0	4.5	-	-	1.5	7.0	10.5	18.5	24.5	25.5	22.5
9	15.0	10.0	4.5	-	.5	1.5	7.0	10.5	19.0	24.0	25.5	22.5
10	14.0	9.0	4.0	-	1.0	2.0	8.0	11.0	19.0	24.0	25.0	22.5
11	14.0	9.0	4.0	-	1.0	3.0	8.0	11.0	19.0	24.5	25.0	22.5
12	15.0	9.0	4.0	-	1.0	3.0	8.5	11.0	19.0	24.5	25.0	21.5
13	15.0	8.0	4.0	-	.5	3.0	7.0	11.5	19.0	23.5	24.5	21.5
14	15.0	8.0	3.5	-	.5	3.5	7.0	11.5	19.0	23.5	24.5	21.5
15	15.0	7.0	3.5	-	.5	3.5	7.0	12.5	19.5	23.5	24.0	21.5
16	16.0	7.0	3.5	-	.5	3.5	7.0	12.5	19.5	24.0	24.5	21.0
17	16.0	8.0	3.5	-	.5	3.5	8.0	13.5	19.5	24.0	25.0	21.0
18	15.0	8.0	3.0	-	.5	3.5	8.5	14.0	19.5	24.0	24.5	21.0
19	15.0	9.0	3.0	-	1.0	3.5	8.5	14.5	20.0	24.0	23.5	21.0
20	15.0	8.0	3.0	-	1.5	4.0	6.5	15.5	20.0	24.0	23.5	21.0
21	15.0	8.0	3.0	-	1.0	4.0	6.5	15.5	20.0	23.5	23.5	20.0
22	15.0	7.0	2.5	-	-	4.0	6.5	15.0	20.5	23.5	23.5	19.5
23	15.0	6.0	2.5	-	-	4.0	6.5	15.0	21.0	24.0	23.5	19.0
24	14.0	8.0	2.5	-	-	4.0	6.5	15.5	21.5	24.5	23.5	19.0
25	14.0	8.0	2.5	-	-	4.5	8.5	16.0	22.5	24.5	23.0	19.0
26	14.0	8.0	2.5	.5	-	4.5	7.0	16.5	22.5	25.0	23.0	18.5
27	14.0	8.0	1.5	1.0	-	4.5	7.0	16.5	23.0	24.5	23.0	18.5
28	14.0	8.0	2.5	1.0	-	4.5	8.0	17.5	23.0	24.5	23.0	18.5
29	15.0	6.0	1.0	1.0	---	4.5	8.0	17.5	23.0	24.5	23.0	18.0
30	14.0	---	1.0	1.0	---	5.0	8.0	18.0	23.0	24.5	23.0	18.0
31	12.0	---	4.0	2.5	---	5.0	---	18.0	---	24.5	23.0	---
MEAN	15.5	8.0	3.5	1.0	1.0	3.0	7.0	13.0	20.0	24.0	24.0	21.0
WTR YR 1989	MEAN	13.0		MAX	25.5		MIN	.5				

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 downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi upstream from Eightmile Brook, and at mile 19.2.

DRAINAGE AREA.--1,544 mi².

WATER-DISCHARGE RECORD

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

REVISED RECORDS.--WSP 711: 1929(M). WSP 1231: 1951. WSP 1301: 1933-34(M), 1936-37. WDR CT-83-1: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 24.98 ft above 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. 205), and by diversion out of basin at Shepaug Reservoir. High flows affected by flood control in the Blackberry River basin for 20.5 mi², but do not appreciably affect monthly runoff.

AVERAGE DISCHARGE (adjusted for storage and diversion).--61 years, 2,615 ft³/s, 22.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,800 ft³/s, Oct. 16, 1955, gage height, 24.50 ft, from rating curve extended above 35,000 ft³/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; practically no flow at times, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,600 ft³/s, May 16, gage height, 14.07 ft; minimum, 39 ft³/s, Aug. 3, gage height, 0.48 ft; minimum daily, 60 ft³/s, Jan. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	1080	6340	776	1720	1830	6470	2400	4720	1570	837	617
2	106	3580	5760	1220	1970	1460	3940	4620	4970	695	1060	791
3	707	3200	5160	3710	1400	2360	2710	6300	3720	1650	61	74
4	1110	3500	3620	3470	333	66	3660	6280	2260	1270	1690	74
5	664	2950	3750	1400	66	67	5870	6310	2320	2430	68	1100
6	103	3020	4520	1700	1550	1650	6280	15700	4430	2280	358	1000
7	689	3090	3900	65	2240	1740	6460	11300	3230	1410	1130	1250
8	698	2440	4180	191	1580	1670	6460	8960	4530	2820	969	532
9	101	3170	4130	2350	1700	606	6340	7530	6530	1110	1090	79
10	96	3060	3640	2070	582	2030	4330	10200	7440	2140	1350	80
11	81	950	2950	2240	65	74	4290	14400	6510	4440	2070	1280
12	564	851	3610	1240	65	69	2450	12400	6040	3500	2630	608
13	545	999	3450	2780	1210	1720	4290	10100	5360	2760	4910	420
14	922	4110	3390	249	2190	1150	3700	7900	5310	1830	4880	81
15	98	3610	3190	473	1610	1430	4620	6310	4660	1200	3800	2170
16	92	3760	2830	3420	1330	840	5800	9780	6310	109	2130	82
17	817	3690	66	1700	2500	1490	6280	18700	6500	2690	2230	80
18	990	3180	61	2070	343	73	4130	11700	5950	2100	1910	1600
19	597	2910	2130	2500	67	70	4680	8560	4920	1540	1790	2270
20	637	4180	2670	1270	1900	2530	4030	7850	3650	1150	71	2550
21	993	11500	1690	62	3700	2350	3960	6760	3830	1830	1280	3150
22	102	8890	1630	60	6460	1820	3400	6620	3780	1650	1360	2900
23	79	7370	1720	1410	5680	2610	1250	6290	3430	1320	1560	865
24	1690	6250	1660	1700	3740	552	3150	9540	3250	1620	992	111
25	1100	4010	1060	1990	859	2610	2930	13000	4500	1760	1740	2650
26	869	3560	2600	2160	70	4240	3610	9400	4180	1210	460	1650
27	1360	2890	2680	1930	2260	3650	2670	6710	4280	1160	105	2430
28	103	4500	3020	1400	2180	3000	4120	6550	3470	1410	1000	2160
29	97	6400	3770	69	---	3050	3310	4920	3040	106	1260	1990
30	87	6380	3090	1820	---	6020	1880	5260	2360	787	95	655
31	1240	---	1840	2170	---	6410	---	5080	---	1700	89	---
TOTAL	17446	119080	94107	49665	49370	59237	127070	267430	135480	53247	44975	35299
MEAN	563	3969	3036	1602	1763	1911	4236	8627	4516	1718	1451	1177
MAX	1690	11500	6340	3710	6460	6410	6470	18700	7440	4440	4910	3150
MIN	79	851	61	60	65	66	1250	2400	2260	106	61	74
(+)	+55.5	-45.8	-689	+1.3	+154	+181	+365	+315	-65.6	+35.2	+29.0	-25.8
MEAN†	618	3923	2347	1603	1917	2092	4601	8942	4450	1753	1480	1151
CFSM†	.40	2.54	1.52	1.04	1.24	1.35	2.98	5.79	2.88	1.14	.96	.75
IN†	.46	2.83	1.75	1.20	1.29	1.56	3.32	6.68	3.21	1.31	1.11	.84

CAL YR 1988 TOTAL 771741 MEAN 2109 MAX 11500 MIN 43 MEAN† 2103 CFSM† 1.36 IN† 18.54
WTR YR 1989 TOTAL 1052406 MEAN 2883 MAX 18700 MIN 60 MEAN† 2907 CFSM† 1.88 IN† 25.56

† 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 microsiemens Sept. 14, 1977; minimum recorded, 46 microsiemens

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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
03...	1330	265	275	8.23	17.5	19.5	--	8.2	90	--	--
18...	1130	103	295	8.29	21.0	15.5	0.80	9.8	99	K1	K1
NOV											
10...	0915	5800	290	8.05	10.0	9.0	2.4	9.5	82	38	210
DEC											
14...	1015	5670	217	8.20	4.5	2.0	0.80	12.9	93	K5	K6
JAN											
10...	0930	5760	266	8.21	-2.0	1.5	1.7	11.4	79	K1	K2
25...	1330	103	239	7.85	5.5	3.0	--	14.4	105	--	--
FEB											
07...	1520	5690	271	7.79	1.0	2.5	--	13.0	94	--	--
22...	1555	6450	279	8.00	5.0	1.5	--	13.7	98	--	--
MAR											
15...	0955	64	244	7.87	9.0	4.0	2.0	12.2	93	<1	<1
28...	1125	5740	233	7.66	26.0	5.0	2.4	12.5	97	--	--
APR											
10...	0845	5800	188	7.98	9.5	7.5	1.5	11.4	94	21	K11
25...	1030	68	190	8.50	15.5	11.5	1.3	12.9	119	--	--
MAY											
09...	0900	6340	178	7.95	15.5	13.0	3.0	10.7	100	48	K11
31...	1255	5830	186	7.78	26.0	17.0	3.0	8.8	90	--	--
JUN											
13...	0915	5880	209	8.70	19.0	17.0	2.5	8.1	84	21	100
27...	1325	5830	195	7.89	29.0	20.0	2.6	9.3	103	--	--
JUL											
12...	0800	5810	228	8.10	21.0	23.0	2.0	6.5	75	25	180
25...	1330	4250	251	7.82	29.0	23.0	1.5	5.9	68	--	--
AUG											
07...	0905	69	256	7.57	27.0	23.0	1.2	5.1	60	K9	43
22...	1150	4380	250	7.87	27.0	23.5	1.7	6.7	79	--	--
SEP											
06...	1045	4380	266	8.04	24.0	22.0	1.1	6.4	72	100	42
19...	1155	4440	240	7.56	20.0	22.0	2.1	3.9	44	--	--

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible][illegible]

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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)	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)
OCT 03...	0.030	0.030	0.37	0.40	0.70	0.040	<0.010	0.020	0.020	--
18...	0.030	0.020	0.37	0.40	0.70	0.030	0.010	0.010	<0.010	--
NOV 10...	0.110	0.110	--	--	--	--	--	--	0.010	<10
DEC 14...	0.070	--	0.73	0.80	1.2	0.030	0.010	--	--	--
JAN 10...	0.160	0.160	0.34	0.50	1.1	0.040	0.030	0.020	0.030	10
25...	0.140	0.120	0.36	0.50	1.1	0.040	0.030	0.030	0.030	--
FEB 07...	0.180	0.170	0.52	0.70	1.4	0.050	0.040	0.030	0.030	--
22...	0.130	0.120	0.17	0.30	1.0	0.050	0.020	0.030	0.030	--
MAR 15...	0.130	0.140	0.27	0.40	1.2	0.050	0.040	0.060	0.060	--
28...	0.170	0.160	0.43	0.60	1.2	0.060	0.040	0.040	0.030	--
APR 10...	0.060	0.070	0.44	0.50	1.0	0.040	0.020	0.020	0.010	--
25...	0.030	0.020	0.37	0.40	0.80	0.020	0.010	<0.010	<0.010	--
MAY 09...	0.050	0.030	0.25	0.30	0.60	0.040	0.010	<0.010	<0.010	20
31...	0.060	0.070	0.54	0.60	1.0	0.030	0.020	0.010	0.010	--
JUN 13...	0.070	0.070	0.53	0.60	1.0	0.040	0.020	0.010	0.020	--
27...	0.070	0.050	0.23	0.30	0.60	0.030	0.010	0.010	0.010	--
JUL 12...	0.050	0.030	0.35	0.40	0.80	0.020	<0.010	0.020	<0.010	10
25...	0.040	0.030	0.56	0.60	1.0	0.030	<0.010	<0.010	<0.010	--
AUG 07...	0.020	0.020	0.38	0.40	0.90	0.020	0.020	<0.010	0.010	--
22...	0.060	0.060	0.54	0.60	0.90	0.040	<0.010	0.010	0.020	--
SEP 06...	<0.040	0.050	--	0.40	--	<0.010	0.030	0.010	0.010	--
19...	0.060	0.070	0.44	0.50	0.90	0.040	0.020	0.020	0.010	--

[illegible]

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	MANGANESE, 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										
03...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	2	--	--	--	--	8	5.0
NOV										
10...	3	0.1	<10	1	<1	<1.0	55	<6	9	4.8
DEC										
14...	--	--	--	<1	--	--	--	--	8	3.4
JAN										
10...	18	0.3	<10	<1	<1	<1.0	52	<6	5	3.2
25...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	2	--	--	--	--	27	3.7
28...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	--	--	4	--	--	--	--	26	3.7
25...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	9	<0.1	<10	<1	<1	<1.0	38	<6	<3	4.0
31...	--	--	--	--	--	--	--	--	--	--
JUN										
13...	--	--	--	<1	--	--	--	--	3	3.7
27...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	6	0.1	<10	1	<1	<1.0	51	<6	7	3.9
25...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	1	--	--	--	--	6	3.9
22...	--	--	--	--	--	--	--	--	--	--
SEP										
06...	--	--	--	<1	--	--	--	--	<3	4.0
19...	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SED1- MENT, SUS- PENDE (MG/L) (80154)	SED1- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV					
10...	0915	5800	4	63	85
JAN					
10...	0930	5760	1	16	100
MAR					
15...	0955	63	1	0.17	100
MAY					
09...	0900	6340	12	205	82
JUL					
12...	0800	5810	3	47	70

01205600 WEST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT

LOCATION.--Lat 41°48'03", long 73°07'26", Litchfield County, Hydrologic Unit 01100005, on right bank just downstream from bridge on Prospect Street in Torrington, 0.5 mi upstream from confluence with East Branch, and 3 mi downstream from Stillwater Pond.

DRAINAGE AREA.--33.8 mi².

PERIOD OF RECORD.--August 1956 to current year.

REVISED RECORDS.-- WDR CT-83-1: Drainage area, 1968-70(P), 1972-82(P).

GAGE.--Water-stage recorder. Datum of gage is 541.70 ft above 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 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. August 28, 1969 to August 25, 1986, water-stage recorder at present site and datum 0.14 ft lower.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. City of Torrington diverts an average of about 4 mgd 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 p. 205).

AVERAGE DISCHARGE.--33 years, 58.7 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s, Aug. 4, 1987, gage height, 8.65 ft; minimum daily, 0.3 ft³/s, Aug. 21, Sept. 1, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s, Aug. 19, 1955, by computation of peak flow over dam 3 mi upstream; drainage area, 24.4 mi².

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft³/s, Nov. 20, gage height 6.66 ft; minimum daily, 2.7 ft³/s, Aug. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	43	83	35	38	27	150	49	78	21	5.5	9.1
2	6.3	100	73	33	40	25	110	284	73	9.5	4.9	8.1
3	7.3	103	69	33	37	25	113	143	68	8.5	4.4	6.9
4	7.9	84	62	e29	32	24	116	113	53	7.6	4.0	6.5
5	7.9	153	55	e27	27	24	127	112	43	11	3.8	6.3
6	7.7	e235	49	e25	25	26	217	572	43	15	3.5	6.3
7	7.0	e135	48	23	23	23	192	274	66	16	3.7	6.1
8	11	e75	45	e23	21	21	154	165	96	16	3.5	5.9
9	11	e60	41	32	e19	19	125	120	148	10	2.9	5.7
10	9.8	e45	38	27	e18	19	110	177	213	47	2.7	5.4
11	9.6	e42	36	24	17	19	103	537	111	50	43	5.6
12	9.3	e36	e33	31	17	23	95	349	94	21	211	5.7
13	9.6	79	30	36	16	22	89	264	101	12	138	5.4
14	7.8	158	33	27	28	21	84	164	91	9.6	104	10
15	7.2	83	34	61	e46	26	93	126	133	7.5	72	47
16	7.3	50	33	44	52	32	201	391	206	6.6	43	22
17	7.3	85	31	33	32	29	130	368	132	17	17	19
18	9.2	108	e29	29	24	37	113	223	110	14	18	15
19	9.7	90	28	31	21	43	105	141	96	11	15	21
20	9.3	503	28	33	20	33	93	116	79	16	14	47
21	9.7	1070	32	28	238	37	84	106	55	33	14	70
22	37	255	35	24	185	33	71	98	72	32	15	60
23	25	163	34	22	89	31	58	88	70	19	15	71
24	14	109	40	22	49	41	48	354	88	13	13	60
25	11	88	78	23	37	141	43	275	63	9.7	11	32
26	9.5	76	56	36	32	121	41	164	46	8.1	8.4	103
27	8.7	70	40	64	31	116	39	126	36	8.3	7.5	74
28	8.2	171	60	39	28	112	35	110	32	13	7.5	46
29	8.9	143	81	32	---	118	36	100	33	7.9	14	33
30	8.7	104	53	40	---	134	53	92	27	7.2	17	25
31	7.8	---	41	39	---	151	---	84	---	6.1	11	---
TOTAL	316.4	4516	1428	1005	1242	1553	3028	6285	2556	483.6	847.3	838.0
MEAN	10.2	151	46.1	32.4	44.4	50.1	101	203	85.2	15.6	27.3	27.9
MAX	37	1070	83	64	238	151	217	572	213	50	211	103
MIN	5.7	36	28	22	16	19	35	49	27	6.1	2.7	5.4

CAL YR 1988 TOTAL 16926.3 MEAN 46.2 MAX 1070 MIN 4.4
WTR YR 1989 TOTAL 24098.3 MEAN 66.0 MAX 1070 MIN 2.7

e Estimated

01205700 EAST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT

LOCATION.--Lat 41°48'12", long 73°07'06", Litchfield County, Hydrologic Unit 01100005, on right bank, 250 ft upstream of Wall Street bridge in Torrington, 0.3 mi downstream from Troy Brook, and 0.6 mi upstream from confluence with West Branch Naugatuck River.

DRAINAGE AREA.--13.6 mi².

PERIOD OF RECORD.--August 1956 to current year.

REVISED RECORDS.--WSP 1621: 1958(P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 541.14 ft above National Geodetic Vertical Datum of 1929. Prior to June 4, 1982, nonrecording gage and crest-stage gage, June 5, 1982 to August 4, 1986, water-stage recorder at site 250 ft downstream at datum 1.88 ft lower.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by Lake Winchester and East Branch Detention Reservoir (see p. 205).

AVERAGE DISCHARGE (adjusted for storage since October 1965).--33 years, 24.9 ft³/s, 24.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s, Aug. 5, 1969, gage height, 4.85 ft; minimum observed, 0.3 ft³/s, Aug. 19, 1963, and Aug. 24, 1964; minimum gage height observed, 0.86 ft, Aug. 24, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a discharge of 6,200 ft³/s, at site 2.5 mi upstream drainage area 9.30 mi².

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 544 ft³/s, Nov. 20, gage height 2.81 ft; minimum daily, 1.9 ft³/s, Oct. 1, Sept. 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	55	30	15	16	13	67	22	29	8.6	3.3	3.3
2	4.4	67	29	15	16	12	39	159	38	7.4	2.9	2.8
3	2.8	32	25	e14	18	11	40	93	29	6.6	2.8	2.5
4	2.0	21	22	e13	14	11	42	41	24	6.1	2.8	2.4
5	2.4	57	18	e13	12	11	56	48	19	10	2.6	2.4
6	3.2	81	17	12	12	11	115	243	23	10	2.4	2.3
7	4.5	35	17	11	11	e11	69	156	34	12	2.4	2.2
8	9.3	26	16	e12	e10	e10	62	102	38	14	2.3	2.2
9	4.8	20	16	14	e9.5	e9.0	48	49	71	9.3	2.3	2.1
10	3.7	18	14	12	e9.0	8.4	41	97	115	44	2.2	2.0
11	3.3	16	e14	11	8.4	8.2	34	221	46	25	36	2.0
12	3.2	15	e13	18	8.0	10	30	176	31	13	115	1.9
13	3.3	42	13	17	e8.0	12	28	141	38	9.6	59	1.9
14	4.2	34	14	12	e13	9.0	28	73	37	8.0	37	26
15	4.5	27	15	39	e20	11	44	50	76	6.7	23	22
16	4.1	25	e14	19	21	12	115	183	113	6.2	16	8.2
17	4.1	43	e13	15	e19	10	60	181	59	17	13	8.6
18	5.6	28	e13	13	e15	14	45	138	42	9.4	10	6.2
19	4.9	21	12	15	9.6	16	40	62	32	7.4	8.0	14
20	5.0	184	12	14	8.8	11	32	46	26	16	7.2	31
21	7.5	171	14	28	112	16	28	38	22	24	7.5	34
22	45	135	14	13	86	14	26	33	36	14	8.9	30
23	18	55	13	11	35	13	24	31	32	16	7.4	41
24	12	39	29	10	23	22	21	172	33	12	6.2	27
25	10	33	36	10	20	71	19	130	23	9.3	5.2	16
26	9.2	28	21	23	e18	45	18	62	18	7.5	4.2	56
27	10	27	16	30	16	36	17	54	16	8.6	3.5	29
28	11	83	32	17	14	34	16	41	14	18	3.2	18
29	8.6	44	31	15	---	39	19	31	13	6.0	12	13
30	8.4	35	19	20	---	57	25	26	11	4.5	6.2	11
31	8.3	---	17	17	---	69	---	25	---	3.8	3.6	---
TOTAL	229.2	1497	579	498	582.3	636.6	1248	2924	1138	370.0	418.1	421.0
MEAN	7.39	49.9	18.7	16.1	20.8	20.5	41.6	94.3	37.9	11.9	13.5	14.0
MAX	45	184	36	39	112	71	115	243	115	44	115	56
MIN	1.9	15	12	10	8.0	8.2	16	22	11	3.8	2.2	1.9
(+)	+0.6	0	0	0	0	+0.5	-0.5	0	0	0	-0.1	+0.2
MEAN†	7.45	49.9	18.7	16.1	20.8	21.0	41.1	94.3	37.9	11.9	13.4	14.2
CFSM†	.55	3.37	1.38	1.18	1.53	1.54	3.02	6.93	2.79	.88	.99	1.04
IN†	.63	3.76	1.59	1.36	1.59	1.78	3.37	7.99	3.11	1.02	1.14	1.16

CAL YR 1988 TOTAL 6749.0 MEAN 18.4 MAX 184 MIN 1.8 MEAN† 18.4 CFSM† 1.35 IN† 17.09
WTR YR 1989 TOTAL 10541.2 MEAN 28.9 MAX 243 MIN 1.9 MEAN† 28.9 CFSM† 2.12 IN† 27.50

† Change in contents, in Lake Winchester and East Branch Detention Reservoir, equivalent in cubic feet per second; records for East Branch Detention Reservoir furnished by Corps of Engineers.

‡ Adjusted for change in contents.

e Estimated

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 downstream from Thomaston Reservoir, 2.5 mi upstream from Branch Brook, and at mile 29.5.

DRAINAGE AREA.--99.8 mi².

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR CT-76-1: 1975. WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 354.39 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Slight diurnal fluctuation at low flow. Flow regulated by Thomaston, Hall Meadow Brook and East Branch Detention Reservoirs, and Lake Winchester (see p. 205).

AVERAGE DISCHARGE (adjusted for storage).--30 years, 200 ft³/s, 27.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,140 ft³/s, Mar. 31, 1960, gage height, 6.25 ft; minimum, 6.6 ft³/s, Sept. 20, 1964, gage height, 1.39 ft; minimum daily, 8.4 ft³/s, Sept. 14, 21, 27, 28, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 27.0 ft, from floodmarks by Corps of Engineers, discharge, 53,400 ft³/s, from indirect measurements of peak flow on Naugatuck River, 71.9 mi², and Leadmine Brook, 24.0 mi², adjusted for intervening drainage area.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2740 ft³/s, May 9, gage height, 5.58 ft; minimum, 16 ft³/s, Oct. 1, 2, gage height, 1.60 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	60	259	126	131	101	601	159	245	87	40	43
2	20	545	223	e115	137	94	718	463	245	77	36	40
3	29	242	e200	e105	137	91	443	888	240	70	33	35
4	21	152	e185	e95	119	89	357	668	182	65	31	31
5	19	162	e165	e91	103	91	268	267	155	76	30	28
6	20	541	e150	e85	e95	96	391	406	161	99	28	28
7	20	451	e140	e84	e86	78	867	433	237	86	28	27
8	43	186	e135	e83	e80	e75	769	1180	351	101	26	26
9	40	139	e125	124	e75	e71	425	1650	202	75	25	25
10	30	116	e115	99	e70	e67	331	649	670	149	23	24
11	28	106	e110	89	e65	e65	290	602	811	341	42	23
12	25	96	e104	102	e61	80	263	1560	297	126	146	22
13	24	164	99	168	e58	80	245	1780	309	90	209	22
14	23	303	116	110	100	80	244	1060	295	80	773	42
15	21	176	e110	247	147	94	264	519	388	70	972	233
16	21	144	e108	183	188	109	723	500	697	61	183	85
17	20	235	e104	132	109	98	589	1020	543	134	112	82
18	20	233	e102	114	e90	126	325	1660	322	99	85	65
19	24	166	e99	121	80	160	336	1150	259	78	72	89
20	20	237	e97	124	73	114	273	397	217	81	69	237
21	24	849	107	e105	185	143	241	351	180	206	64	319
22	169	1620	119	e97	340	144	219	315	260	127	61	146
23	118	1490	106	89	e300	130	191	269	286	101	64	303
24	58	606	152	86	e240	146	171	331	444	81	55	215
25	44	258	325	86	e180	291	158	780	246	67	45	124
26	37	223	197	101	142	327	147	1150	178	57	40	280
27	33	209	139	227	122	498	138	801	145	51	36	272
28	35	644	184	140	107	490	130	552	126	110	33	156
29	35	510	300	119	---	334	130	296	118	62	42	118
30	30	311	181	149	---	251	197	261	102	49	134	97
31	28	---	144	144	---	287	---	245	---	44	56	---
TOTAL	1098	11174	4700	3740	3620	4900	10444	22362	8911	3000	3593	3237
MEAN	35.4	372	152	121	129	158	348	721	297	96.8	116	108
MAX	169	1620	325	247	340	498	867	1780	811	341	972	319
MIN	19	60	97	83	58	65	130	159	102	44	23	22
(+)	+2.5	+1.4	-0.3	-0.1	0	+16.7	-19.8	+1.4	-1.7	-0.1	-0.1	+0.2
MEAN+	37.9	373	152	121	129	175	328	722	295	96.7	116	108
CFSM+	.38	3.74	1.52	1.21	1.29	1.75	3.29	7.23	2.96	.97	1.16	1.08
IN+	.44	4.17	1.75	1.40	1.34	2.02	3.67	8.34	3.30	1.12	1.34	1.20

CAL YR 1988 TOTAL 52460 MEAN 143 MAX 1620 MIN 16 MEAN+ 143 CFSM+ 1.43 IN+ 19.55
WTR YR 1989 TOTAL 80779 MEAN 221 MAX 1780 MIN 19 MEAN+ 221 CFSM+ 2.21 IN+ 30.09

+ Change in contents in Lake Winchester, Thomaston, Hall Meadow Brook, and East Branch Detention Reservoirs, equivalent in cubic feet per second; furnished by Corps of Engineers.

+ Adjusted for change in contents.

e Estimated

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 upstream from U.S. Highway 6, and 1.7 mi southwest of Thomaston.

DRAINAGE AREA.--20.8 mi².

PERIOD OF RECORD.--June 1971 to December 1974, at station 01208012, 0.5 mi upstream,
December 1974 to September 1989 (Records not published following this water year. Streamflow records available in U.S.G.S., Connecticut office.)

REVISED RECORDS.-- WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 354.32 ft above National Geodetic Vertical Datum of 1929. Prior to December 1974, water-stage recorder at site 0.5 mi upstream at datum 22.89 ft higher.

REMARKS.--Records fair except for periods of estimated record, which are poor. Several measurements of water temperature were made during the year. 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. 205).

AVERAGE DISCHARGE.--18 years, 34.3 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 805 ft³/s, June 8, 1982; maximum gage height, 4.16 ft, June 5, 1984; minimum discharge, 0.10 ft³/s, July 4, 5, 6, 1988 (reg), gage height, 0.80 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 604 ft³/s, May 12, gage height, 3.62 ft; minimum daily, 0.35 ft³/s, Oct. 1, estimated.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.35	e20	31	e11	3.9	e7.5	128	18	35	3.2	1.7	7.9
2	e.40	e110	23	e8.0	3.8	e6.8	55	141	35	3.3	1.5	11
3	e4.0	e45	21	e6.0	4.3	e6.4	50	165	34	2.5	1.6	4.9
4	e3.5	e21	21	e4.5	3.5	e6.0	61	85	34	2.2	.99	2.9
5	e1.9	e25	15	e3.5	2.9	e5.8	62	58	33	4.9	1.1	2.8
6	e1.4	e100	e14	e2.6	e2.7	e6.4	145	242	34	6.6	.91	2.8
7	e1.6	e45	e13	e2.4	e2.5	e5.4	150	256	24	4.7	1.5	2.8
8	e5.8	e23	e12	e2.2	e2.3	e3.5	93	275	9.9	5.0	1.3	17
9	e7.0	e18	e11	e2.1	e2.3	e2.5	69	76	16	2.4	.63	7.7
10	e5.4	e16	e11	e1.9	e2.2	e1.8	56	90	21	31	.44	3.6
11	e4.5	e14	e10	e1.8	e2.1	e2.3	40	213	19	43	23	11
12	e3.5	e13	e9.5	e1.7	e2.0	e2.2	29	477	28	11	83	6.8
13	e3.1	e25	e9.0	e1.6	e2.0	e2.0	27	147	38	5.0	114	4.7
14	e2.8	e50	e10	e1.5	e1.9	e1.8	28	93	35	3.8	271	6.2
15	e2.5	e27	e9.2	9.4	5.5	e1.7	33	73	39	2.6	51	6.7
16	e2.3	e21	e8.6	5.2	e4.0	e1.6	176	146	88	1.9	27	13
17	e2.2	e30	e8.0	3.8	e3.0	e1.5	94	382	63	12	18	14
18	e2.1	e48	e7.6	3.4	e2.6	1.3	62	231	37	6.0	13	11
19	e2.0	e28	e7.2	e3.0	e2.3	13	49	89	35	3.9	11	20
20	e1.9	e70	e6.7	e2.8	e2.1	11	36	59	33	13	12	73
21	e3.5	e320	e6.5	e2.6	17	22	26	52	23	44	14	75
22	e39	249	e6.2	e2.5	37	18	30	57	4.4	12	16	44
23	e20	39	e5.8	e2.4	32	16	26	50	6.1	8.2	12	75
24	e12	32	e6.4	e2.3	23	21	21	179	55	5.3	9.2	37
25	e10	29	e8.0	e2.2	e18	72	19	300	32	3.9	6.3	18
26	e8.5	18	e7.0	3.5	e14	40	15	79	14	3.1	4.9	68
27	e6.6	17	e6.0	7.0	9.8	27	15	62	8.4	2.5	4.1	46
28	e6.0	125	9.6	3.5	e8.5	27	14	56	6.5	13	4.1	22
29	e6.2	78	23	3.2	---	37	14	37	6.8	6.1	7.6	18
30	e6.0	38	e20	6.1	---	53	21	38	3.8	2.3	33	25
31	e5.7	---	e15	4.3	---	116	---	36	---	1.9	13	---
TOTAL	181.75	1694	371.3	118.0	217.2	539.5	1644	4262	850.9	270.3	758.87	657.8
MEAN	5.86	56.5	12.0	3.81	7.76	17.4	54.8	137	28.4	8.72	24.5	21.9
MAX	39	320	31	11	37	116	176	477	88	44	271	75
MIN	.35	13	5.8	1.5	1.9	1.3	14	18	3.8	1.9	.44	2.8

CAL YR 1988 TOTAL 6586.58 MEAN 18.0 MAX 320 MIN .18
WTR YR 1989 TOTAL 11565.62 MEAN 31.7 MAX 477 MIN .35

e Estimated

HOUSATONIC RIVER BASIN

195

01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT

LOCATION.--Lat 41°36'55", long 73°03'30", New Haven County, Hydrologic Unit 01100005, at Frost Bridge 1.8 mi north of Waterville and 2.4 mi south of Branch Brook.

DRAINAGE AREA.--136 mi².

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 north and station 01208013, 2.4 mi 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT												
19...	1245	26	495	7.46	21.5	12.0	0.80	10.8	101	K8	K4	96
NOV												
09...	1140	185	184	7.32	13.0	8.0	2.2	11.4	97	540	200	41
DEC												
13...	1045	138	225	7.95	-4.5	0.5	1.2	13.2	91	26	K11	44
JAN												
13...	1245	189	298	7.38	3.0	1.0	3.4	14.2	100	400	640	46
MAR												
14...	1315	93	261	7.36	15.0	4.0	1.5	13.8	105	K13	K7	54
APR												
11...	0900	370	150	7.55	5.0	8.0	1.0	12.8	107	84	35	34
MAY												
10...	1100	962	114	7.14	12.0	12.0	2.8	10.2	95	80	26	27
JUN												
16...	0830	1040	125	7.59	16.0	14.0	2.1	9.2	89	600	1200	29
JUL												
14...	1005	89	185	7.33	27.0	22.0	3.7	7.4	86	580	26	40
AUG												
08...	1030	32	307	7.72	22.0	23.0	1.8	8.9	105	24	K18	59
SEP												
02...	0815	60	213	7.11	24.0	21.0	1.5	7.0	79	39	21	41

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS 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, 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)
OCT												
19...	--	30	5.0	--	40	78	--	290	0.39	20.4	303	7.84
NOV												
09...	24	11	3.3	17	18	24	6.4	110	0.15	54.9	117	1.11
DEC												
13...	--	12	3.3	--	21	26	--	114	0.15	42.5	122	--
JAN												
13...	26	13	3.3	20	20	56	6.9	167	0.23	85.2	180	2.32
MAR												
14...	--	16	3.4	--	20	42	--	153	0.21	38.4	166	3.51
APR												
11...	--	9.1	2.7	--	14	23	--	95	0.13	94.9	96	0.680
MAY												
10...	15	7.0	2.3	12	12	15	5.7	66	0.09	171	66	0.490
JUN												
16...	--	7.9	2.3	--	12	15	--	70	0.09	197	90	--
JUL												
14...	22	11	3.1	18	15	25	6.1	120	0.16	28.8	120	2.27
AUG												
08...	--	17	4.0	--	28	48	--	164	0.22	14.2	192	2.17
SEP												
02...	--	12	2.8	--	21	29	--	123	0.17	19.9	125	1.47

HOUSATONIC RIVER BASIN

01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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)
OCT 19...	0.360	8.20	0.850	0.75	1.6	9.8	0.450	0.390	1	<1	1	1
NOV 09...	0.090	1.20	0.240	0.56	0.80	2.0	0.090	0.060	<1	<1	<1	<1
DEC 13...	<0.010	1.60	0.020	0.98	1.0	2.6	0.130	0.110	<1	<1	2	2
JAN 13...	0.080	2.40	0.490	0.31	0.80	3.2	0.140	0.100	1	<1	2	<1
MAR 14...	0.090	3.60	0.480	0.42	0.90	4.5	0.130	0.100	<1	<1	3	3
APR 11...	0.020	0.700	0.150	0.25	0.40	1.1	0.060	0.040	<1	<1	2	<1
MAY 10...	0.010	0.500	0.080	0.32	0.40	0.90	0.040	0.030	<1	<1	4	2
JUN 16...	<0.010	0.900	0.140	0.26	0.40	1.3	0.040	0.040	<1	<1	2	2
JUL 14...	0.030	2.30	0.140	0.76	0.90	3.2	0.090	0.080	<1	<1	45	3
AUG 08...	0.030	2.20	0.050	0.85	0.90	3.1	0.160	0.110	<1	<1	3	<1
SEP 02...	0.030	1.50	0.200	0.90	1.1	2.6	0.100	0.080	<1	<1	1	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	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 19...	26	21	230	--	<5	<5	--	57	55	40	38	5.4
NOV 09...	10	8	320	120	5	<5	54	15	3	20	21	5.7
DEC 13...	16	6	230	--	<5	<5	--	21	14	20	22	3.7
JAN 13...	9	5	470	120	<5	<5	75	17	16	30	35	3.8
MAR 14...	8	6	270	--	<5	<5	--	35	25	40	30	3.2
APR 11...	7	2	260	--	<5	<5	--	16	10	40	35	3.1
MAY 10...	9	5	350	93	3	<1	61	10	7	30	19	3.9
JUN 16...	8	4	--	--	7	1	--	12	9	--	16	4.2
JUL 14...	10	7	710	190	3	1	110	34	36	20	18	4.7
AUG 08...	17	13	230	--	1	1	--	76	60	20	12	5.0
SEP 02...	10	<1	400	--	2	1	--	35	32	20	26	4.2

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 downstream from Porter Avenue bridge at the borough of Naugatuck golf course, 400 feet east of State Highway 63, 0.8 mile downstream from Hop Brook Lake, 1.4 mi north of Naugatuck, and 0.6 mi upstream from mouth.

DRAINAGE AREA.--16.3 mi².

PERIOD OF RECORD.--October 1969 to September 1989 (Records not published following this water year. Streamflow records available in U.S.G.S., Connecticut office.)

REVISED RECORDS.-- WDR CT-83-1: 1982 (M,P).

GAGE.--Water-stage recorder. Datum of gage is 206.29 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow regulated by Hop Brook Lake (see p. 206).

AVERAGE DISCHARGE.--20 years, 33.8 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 582 ft³/s, June 4, 1984; maximum gage height, 3.95 ft, Dec. 22, 1973; minimum discharge, 0.06 ft³/s, Aug. 20, 23, 1970, gage height, 0.33 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 19, 1955, reached a discharge of 2,650 ft³/s, by computation of peak flow by flow-through-culvert method.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 409 ft³/s, May 7, gage height, 3.50 ft; minimum, 0.21 ft³/s, Oct. 1, 4, 6, gage height, 1.17 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	26	20	20	20	e13	116	26	38	11	5.5	9.3
2	.31	82	17	19	19	e12	57	247	43	9.7	4.8	7.6
3	3.2	25	e16	e17	22	e12	53	108	40	8.6	4.2	6.4
4	2.7	16	e15	e15	20	e11	54	55	39	8.1	3.7	5.6
5	1.7	20	e15	e14	17	16	57	47	39	14	3.3	5.1
6	1.1	77	e14	e13	e16	20	98	263	44	20	3.0	4.9
7	1.2	28	e13	e13	e15	15	68	268	58	16	2.8	4.7
8	4.3	18	e13	e15	e14	e14	64	81	59	20	3.0	4.6
9	5.6	14	e13	19	e13	13	53	65	80	11	2.7	4.3
10	3.7	12	e12	16	e12	12	46	82	147	59	2.3	4.1
11	3.1	11	e12	15	e12	12	39	209	56	84	25	4.0
12	2.5	9.3	e12	18	11	15	37	230	38	23	99	3.6
13	2.2	21	e13	32	12	15	35	89	61	16	131	3.3
14	2.0	39	e15	20	e14	15	34	71	50	13	246	5.8
15	e1.9	20	16	39	e18	17	40	61	68	10	109	40
16	e1.8	15	e16	29	19	18	138	145	131	9.3	36	16
17	e1.8	33	e15	21	e17	17	64	294	75	43	26	26
18	e1.8	38	e15	19	e16	24	47	142	49	23	20	17
19	e1.8	21	e14	21	15	33	43	76	38	17	17	55
20	e1.8	53	e14	20	13	15	37	63	32	13	16	106
21	e2.0	249	17	18	40	5.8	34	65	30	17	22	61
22	31	218	20	e17	70	6.4	32	60	30	15	24	20
23	17	70	17	15	38	6.8	29	43	28	12	17	39
24	9.3	37	28	14	25	14	27	274	56	9.3	14	26
25	7.0	32	68	14	e20	128	26	230	32	7.7	11	17
26	5.8	28	30	20	e17	53	24	83	23	6.7	9.2	28
27	4.9	26	21	35	e15	123	23	74	20	5.9	8.2	40
28	4.6	128	30	21	e13	37	22	60	17	17	7.6	19
29	4.8	113	51	19	---	4.1	21	47	16	13	9.2	16
30	4.6	48	27	25	---	6.6	31	41	13	7.5	24	14
31	4.4	---	23	22	---	102	---	38	---	6.3	13	---
TOTAL	140.17	1527.3	622	615	553	805.7	1449	3637	1450	546.1	919.5	613.3
MEAN	4.52	50.9	20.1	19.8	19.7	26.0	48.3	117	48.3	17.6	29.7	20.4
MAX	31	249	68	39	70	128	138	294	147	84	246	106
MIN	.26	9.3	12	13	11	4.1	21	26	13	5.9	2.3	3.3

CAL YR 1988 TOTAL 7631.60 MEAN 20.9 MAX 249 MIN .26
WTR YR 1989 TOTAL 12878.07 MEAN 35.3 MAX 294 MIN .26

e Estimated

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 upstream from Bronson Brook, and at mile 10.1.
DRAINAGE AREA.--260 mi².

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 1171: 1918-24, 1928-49. WSP 1501: 1956 (P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 117.28 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi upstream at datum 37.89 ft higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good except for periods of estimated record, which are fair. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes (see p. 205-206), 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 from Pomperaug River basin into Naugatuck River about 10 mi upstream.

AVERAGE DISCHARGE (adjusted for storage and diversion).--67 years, 1919-24, 1929-89, 501 ft³/s, 26.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft³/s, Aug. 19, 1955, gage height, 25.7 ft, from flood-marks, from rating curve extended above 9,000 ft³/s, on basis of slope-area measurements of peak flow at gage heights 12.4 and 25.7 ft, site and datum then in use; minimum, 24 ft³/s, Oct. 21, 1935; minimum daily, 40 ft³/s, Oct. 5, 12, 1930, Sept. 7, 1936; minimum gage height, present site and datum, 1.25 ft, Oct. 1, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1927 reached a stage of 14 ft, former site and datum, discharge, about 26,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,580 ft³/s, May 24, gage height, 8.12 ft; minimum, 76 ft³/s, Oct. 19, gage height, 1.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	584	670	e350	335	305	1610	454	695	258	156	198
2	119	944	567	e310	333	277	1460	2600	712	232	146	182
3	157	585	e500	e280	348	264	1110	2170	647	214	145	164
4	132	364	e450	e250	333	250	966	1470	614	200	136	150
5	101	591	e420	e225	279	252	961	880	506	279	127	146
6	93	1080	e390	e210	e260	289	1290	3360	603	311	117	142
7	90	788	e365	e200	e240	242	1770	1990	737	300	128	146
8	158	467	e345	e190	e220	218	1710	2040	908	294	127	144
9	125	355	e325	315	e210	e210	1160	2480	1060	229	116	150
10	114	314	e305	271	e200	e205	895	1930	1770	633	111	129
11	105	287	e290	248	e190	e200	761	3280	1560	1020	830	131
12	99	245	272	287	e185	231	672	3390	847	421	1620	142
13	94	461	288	421	e180	233	627	3200	894	296	2450	131
14	92	626	322	316	269	229	617	2200	819	247	2170	206
15	89	398	e310	527	350	240	675	1390	977	241	2270	586
16	86	325	e300	489	458	264	1970	2320	1690	216	884	323
17	86	582	294	360	321	253	1490	5810	1460	514	482	364
18	85	546	288	317	271	314	862	3180	870	355	367	280
19	82	389	283	326	251	419	854	2350	674	274	308	378
20	83	2210	283	323	229	319	679	1180	575	233	284	682
21	86	2780	308	284	551	400	604	1060	511	490	326	930
22	564	2910	328	240	884	414	558	984	481	369	366	623
23	331	2250	301	e230	739	348	502	788	617	293	329	682
24	205	1280	432	e220	649	504	467	3900	895	247	277	627
25	167	635	733	e210	e530	1370	430	2660	612	213	218	375
26	145	546	506	306	411	902	414	2420	463	193	201	545
27	120	495	380	496	345	919	392	1740	390	176	182	727
28	116	1790	497	374	319	921	373	1450	348	412	172	460
29	113	1580	718	319	---	696	362	885	329	241	204	357
30	104	860	493	372	---	862	497	758	291	177	406	322
31	104	---	398	373	---	1390	---	704	---	164	257	---
TOTAL	4159	27267	12361	9639	9890	13940	26738	65023	23555	9742	15912	10422
MEAN	134	909	399	311	353	450	891	2098	785	314	513	347
MAX	564	2910	733	527	884	1390	1970	5810	1770	1020	2450	930
MIN	82	245	272	190	180	200	362	454	291	164	111	129
(+)	-24.1	+5.2	-24.7	-9.3	-7.7	+15.8	-25.0	+0.6	-2.2	-17.1	-23.2	-25.1
MEAN†	110	914	374	302	345	466	866	2099	783	297	490	322
CFSM†	.42	3.52	1.44	1.16	1.33	1.79	3.33	8.07	3.01	1.14	1.88	1.24
IN†	.48	3.93	1.66	1.34	1.38	2.06	3.72	9.30	3.36	1.31	2.17	1.38

CAL YR 1988 TOTAL 143353 MEAN 392 MAX 2910 MIN 81 MEAN† 369 CFSM† 1.42 IN† 19.29
WTR YR 1989 TOTAL 228648 MEAN 626 MAX 5810 MIN 82 MEAN† 615 CFSM† 2.37 IN† 32.09

† 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.

e Estimated

HOUSATONIC RIVER BASIN

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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 microsiemens July 8, 1966; minimum recorded, 100 microsiemens 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (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											
03...	1430	139	520	7.27	19.0	20.0	--	8.8	97	--	--
19...	1130	76	700	7.34	20.0	15.0	0.90	9.7	97	4900	320
NOV											
09...	1045	355	295	7.26	17.0	8.5	2.5	11.1	95	10000	4300
DEC											
13...	0930	264	322	7.77	-4.5	1.0	1.3	13.4	94	18000	1500
JAN											
11...	1500	249	439	7.67	6.0	2.5	2.4	14.2	102	11000	3200
25...	1215	247	409	7.60	3.5	4.0	--	14.0	105	--	--
FEB											
07...	1615	262	425	7.71	1.5	3.5	--	14.6	109	--	--
22...	1650	923	235	7.85	5.0	5.0	--	12.8	101	--	--
MAR											
14...	1200	236	375	7.51	11.5	6.0	2.7	13.8	110	2200	440
28...	1015	917	184	7.00	22.0	8.5	4.3	12.4	106	--	--
APR											
11...	1015	759	202	7.05	8.5	6.0	1.4	12.9	102	900	520
25...	0930	430	258	7.16	13.0	9.0	1.7	12.5	108	--	--
MAY											
10...	0930	1760	149	7.19	12.0	11.5	3.0	10.5	95	540	78
31...	1355	715	231	7.47	29.0	18.0	2.2	9.9	104	--	--
JUN											
12...	1335	736	190	7.54	29.5	20.0	3.2	9.2	100	130	27
27...	1445	392	282	7.50	31.0	26.0	--	8.9	109	--	--
JUL											
12...	1015	417	209	7.29	30.5	21.5	15	8.2	93	4100	210
25...	1425	217	365	7.46	30.0	27.5	2.9	7.9	99	--	--
AUG											
08...	0925	116	401	7.32	21.0	20.5	2.3	8.1	90	1100	110
22...	1245	317	260	7.66	27.5	25.0	1.9	6.7	81	--	--
SEP											
06...	0930	131	458	7.31	20.0	17.0	1.9	8.7	89	36	40
19...	1240	347	287	7.26	19.0	18.0	5.3	6.1	64	--	--

HOUSATONIC RIVER BASIN
01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD 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, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	99	--	31	5.3	--	81	120	--	397	0.54	81.5
NOV											
09...	49	39	14	3.4	10	30	47	7.0	178	0.24	170
DEC											
13...	44	--	12	3.3	--	30	49	--	165	0.22	118
JAN											
11...	60	31	18	3.7	29	32	85	8.5	220	0.30	148
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	61	--	18	3.8	--	37	65	--	207	0.28	132
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	39	--	11	2.8	--	20	32	--	124	0.17	254
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
10...	32	18	8.9	2.4	14	16	21	6.1	90	0.12	428
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	39	--	11	2.7	--	19	27	--	125	0.17	248
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	40	28	12	2.5	12	20	33	6.5	119	0.16	134
25...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	68	--	20	4.3	--	38	62	--	226	0.31	70.8
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	73	--	22	4.3	--	47	77	--	256	0.35	92.3
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT										
03...	--	--	--	4.00	3.90	1.40	1.50	1.0	2.4	6.4
19...	405	4.28	0.220	4.50	4.50	6.40	6.20	0.60	7.0	11
NOV										
09...	186	1.26	0.040	1.30	--	2.50	--	0.30	2.8	4.1
DEC										
13...	180	1.49	0.110	1.60	--	2.40	--	0.40	2.8	4.4
JAN										
11...	246	1.67	0.030	1.70	1.70	2.70	2.80	0.60	3.3	5.0
25...	--	--	--	1.70	1.70	2.80	2.60	0.20	3.0	4.7
FEB										
07...	--	--	--	1.30	1.20	2.50	2.40	0.30	2.8	4.1
22...	--	--	--	0.900	0.920	0.930	0.900	0.57	1.5	2.4
MAR										
14...	216	1.80	0.200	2.00	2.00	1.50	1.50	0.80	2.3	4.3
28...	--	--	--	0.800	0.760	0.650	0.650	0.55	1.2	2.0
APR										
11...	126	0.980	0.020	1.00	0.910	0.800	0.770	0.60	1.4	2.4
25...	--	--	--	1.30	1.30	1.10	1.10	0.60	1.7	3.0
MAY										
10...	96	0.690	0.010	0.700	0.660	0.270	0.230	0.03	0.30	1.0
31...	--	--	--	1.00	0.990	0.500	0.530	0.50	1.0	2.0
JUN										
12...	126	0.850	0.050	0.900	0.900	0.420	0.410	0.48	0.90	1.8
27...	--	--	--	1.30	1.30	0.880	0.800	0.42	1.3	2.6
JUL										
12...	152	1.11	0.090	1.20	1.20	0.650	0.670	0.45	1.1	2.3
25...	--	--	--	2.00	2.20	1.30	1.30	1.2	2.5	4.5
AUG										
08...	242	2.19	0.210	2.40	2.80	1.50	1.40	0.90	2.4	4.8
22...	--	--	--	1.70	1.70	0.260	0.260	0.74	1.0	2.7
SEP										
06...	261	2.36	0.240	2.60	3.00	2.40	2.40	0.40	2.8	5.4
19...	--	--	--	1.80	1.60	1.60	1.70	0.40	2.0	3.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

HOUSATONIC RIVER BASIN

01208736 NAUGATUCK RIVER AT ANSONIA, CT

LOCATION.--Lat 41°19'50", long 73°04'47", New Haven County, Hydrologic Unit 01100005, at bridge on Division Street, at Ansonia-Derby town line, and 1.2 mi upstream from Housatonic River.

DRAINAGE AREA.--309 mi².

PERIOD OF RECORD.--Water years 1968, 1974, to current year.

REMARKS.--Stream tidal affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (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 TOTAL (MG/L AS CaCO3)	HARDNESS NONCARB WH WAT TOT FLD (MG/L AS CaCO3)
OCT 19...	1005	605	7.60	20.0	13.5	1.2	9.0	87	10000	5200	91	--
NOV 09...	0930	245	7.21	15.5	9.5	4.0	10.6	93	7000	1600	46	33
DEC 13...	0820	311	7.30	-2.5	1.0	1.1	14.0	98	14000	580	58	--
JAN 13...	1120	647	7.35	4.0	2.0	9.8	13.4	96	25000	12000	54	27
MAR 14...	1055	341	7.16	11.5	5.0	2.5	13.8	107	10000	3000	54	--
APR 11...	1155	196	7.06	9.0	7.0	1.5	12.4	100	5700	4100	36	--
MAY 10...	0710	138	6.98	12.0	12.0	3.6	10.3	94	240	62	30	17
JUN 12...	1220	142	7.67	28.0	18.0	3.9	9.2	96	160	31	33	--
JUL 14...	0845	279	7.33	32.0	21.5	6.0	6.8	77	2300	34	54	37
AUG 08...	0830	416	7.87	22.0	23.0	2.4	7.8	91	150	100	68	--
SEP 02...	0610	349	7.06	22.0	21.0	1.6	6.4	72	240	50	59	--

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, 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)
OCT 19...	28	5.1	--	70	100	--	346	0.47	367	5.13	0.270	5.40
NOV 09...	13	3.3	13	27	34	7.3	141	0.19	152	1.15	0.050	1.20
DEC 13...	17	3.7	--	27	47	--	169	0.23	182	1.68	0.120	1.80
JAN 13...	16	3.3	27	34	150	7.7	341	0.46	373	1.36	0.040	1.40
MAR 14...	16	3.5	--	33	59	--	189	0.26	200	1.63	0.070	1.70
APR 11...	10	2.7	--	21	29	--	118	0.16	118	0.870	0.030	0.900
MAY 10...	8.3	2.3	13	16	19	6.3	75	0.10	101	0.679	0.021	0.700
JUN 12...	9.4	2.4	--	15	18	--	99	0.13	108	0.660	0.040	0.700
JUL 14...	16	3.4	17	32	46	8.3	163	0.22	182	1.70	0.100	1.80
AUG 08...	20	4.4	--	44	64	--	230	0.31	226	2.51	0.090	2.60
SEP 02...	18	3.5	--	33	55	--	202	0.27	203	2.59	0.210	2.80

HOUSATONIC RIVER BASIN

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01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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 19...	2.70	0.40	3.1	8.5	0.800	0.680	1	2	3	1	65
NOV 09...	1.20	0.50	1.7	2.9	0.240	0.140	<1	<1	2	<1	41
DEC 13...	2.20	0.50	2.7	4.5	0.210	0.140	<1	2	3	2	38
JAN 13...	2.60	0.20	2.8	4.2	0.440	0.380	1	<1	6	2	38
MAR 14...	1.10	0.40	1.5	3.2	0.350	0.280	<1	<1	2	2	45
APR 11...	0.700	0.40	1.1	2.0	0.170	0.120	<1	<1	2	2	25
MAY 10...	0.260	0.44	0.70	1.4	0.090	0.070	<1	<1	3	1	29
JUN 12...	0.200	0.60	0.80	1.5	0.090	0.060	<1	<1	2	4	35
JUL 14...	0.310	0.69	1.0	2.8	0.240	0.200	<1	<1	3	2	75
AUG 08...	0.130	0.67	0.80	3.4	0.490	0.330	<1	<1	2	<1	62
SEP 02...	0.560	0.84	1.4	4.2	0.280	0.230	<1	<1	2	1	53

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 19...	52	310	--	<5	<5	--	34	27	80	62	6.6
NOV 09...	24	680	170	<5	<5	100	20	18	50	40	6.3
DEC 13...	30	400	--	<5	<5	--	23	16	60	57	4.1
JAN 13...	21	1100	110	10	<5	150	22	19	90	68	6.2
MAR 14...	29	500	--	8	<5	--	20	16	60	40	4.1
APR 11...	13	370	--	5	<5	--	10	8	50	37	3.6
MAY 10...	11	640	100	5	1	55	8	6	60	32	4.1
JUN 12...	18	850	--	7	1	--	13	6	40	39	5.1
JUL 14...	47	1000	200	7	2	160	16	13	70	43	5.8
AUG 08...	40	530	--	3	1	--	15	13	40	21	6.4
SEP 02...	32	470	--	2	1	--	18	15	60	51	4.5

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 2.4 mi upstream from mouth.

DRAINAGE AREA.--1,941 mi².

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

REMARKS.--Stream tidal and salinity affected.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

		OXYGEN, DIS-SOLVED (PERCENT SATURATION)									
DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	SALINITY (PPT)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)		
NOV 15...	0850	5.00	1200	8.07	1.0	10.0	10.0	2.5	11.0	97	
JAN 19...	1300	5.00	14100	7.80	8.0	9.5	4.0	2.8	12.6	101	
MAY 17...	1200	5.00	166	7.73	0.0	25.5	13.5	6.9	10.2	97	
JUL 13...	1205	5.00	2690	7.72	2.0	24.0	23.0	4.4	8.0	94	
DATE		COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)	HARDNESS NONCARBONATE TOT FLD (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)
NOV 15...	1200	340	200	120	32	30	82	54	320	3.0	
JAN 19...	68	K12	1400	1300	100	280	78	660	4500	4.7	
MAY 17...	700	840	61	15	15	5.6	46	13	13	5.1	
JUL 13...	130	K14	250	180	31	43	71	95	570	4.2	
DATE		SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	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)
NOV 15...	712	0.97	742	0.570	0.030	0.600	0.300	0.60	0.90	1.5	
JAN 19...	8280	11.3	8750	0.670	0.030	0.700	0.280	0.42	0.70	1.4	
MAY 17...	85	0.11	138	0.390	0.010	0.400	0.080	0.32	0.40	0.80	
JUL 13...	1170	1.60	1270	0.550	0.050	0.600	0.100	0.50	0.60	1.2	
DATE		PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS 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)	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)
NOV 15...	0.100	0.060	1	<1	1	1	11	6	540	36	
JAN 19...	0.080	0.070	<1	<1	3	<1	8	4	230	30	
MAY 17...	0.040	0.030	<1	<1	5	2	9	3	1500	75	
JUL 13...	0.080	0.040	<1	<1	2	1	4	5	780	10	
DATE		LEAD, TOTAL RECOVERABLE (UG/L AS Pb)	LEAD, DIS-SOLVED (UG/L AS Pb)	MANGANESE, DIS-SOLVED (UG/L AS Mn)	MERCURY TOTAL RECOVERABLE (UG/L AS Hg)	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 15...	<5	<5	19	0.20	6	3	20	14	4.7		
JAN 19...	<5	<5	30	0.20	5	2	20	20	3.4		
MAY 17...	5	1	30	0.20	5	1	30	10	5.2		
JUL 13...	5	<1	10	0.30	7	5	40	<10	4.9		

RESERVOIRS IN HOUSATONIC RIVER BASIN

- 01201000 CANDLEWOOD LAKE (ROCKY RIVER RESERVOIR).--Lat 41°35'00", long 73°26'00", Litchfield County, Conn., Hydrologic Unit 01100005, on Rocky River, 2 mi west of New Milford. Drainage area, 40.5 mi². Usable capacity, 6,210,000,000 ft³. 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 north of Woodville. Drainage area, 10.2 mi². Usable capacity, 360,000,000 ft³. 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 north of Woodville. Drainage area, 38.0 mi². Usable capacity, 96,100,000 ft³, of which 76,900,000 ft³ 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 north of Newtown. Drainage area, 1,392 mi². Usable capacity above taintor gate sills, 1,756,000,000 ft³. Normal operating volume, 235,000,000 ft³. 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. Usable capacity, 340,000,000 ft³, 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 north of Torrington. Drainage area, 12.0 mi². Usable capacity, 375,000,000 ft³. 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 northwest of Winchester on East Branch Naugatuck River. Drainage area, 2.18 mi². Usable capacity, 116,200,000 ft³ 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 north of Torrington. Drainage area, 9.30 mi². Usable capacity, 189,500,000 ft³. 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 downstream from Leadmine Brook, 1.5 mi north of Thomaston, and at mile 31.0. Drainage area, 96.1 mi². Usable capacity, 1,830,000,000 ft³. 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 northwest of Thomaston. Drainage area, 5.52 mi². Usable capacity, 104,000,000 ft³. Permanent pool capacity, 3,600,000 ft³. 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 northwest of Thomaston. Drainage area, 5.93 mi². Usable capacity, 189,000,000 ft³. 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 west of Thomaston. Drainage area, including Pitch Reservoir, 13.0 mi². Usable capacity, 265,600,000 ft³. 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 west of Thomaston. Drainage area, including Pitch and Morris Reservoirs, 17.5 mi². Usable capacity, 98,500,000 ft³. Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1902 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

HOUSATONIC RIVER BASIN

RESERVOIRS IN HOUSATONIC RIVER BASIN--Continued

01208011 BLACK ROCK LAKE.--Lat 41°39'26", long 73°06'13", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 1.8 mi southwest of Thomaston. Drainage area, 20.5 mi². Usable capacity, 373,000,000 ft³. Permanent pool capacity, 11,543,000 ft³. 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 southwest of Hancock. Drainage area, 11.9 mi². Usable capacity 170,000,000 ft³. Permanent pool capacity, 5,700,000 ft³. 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 northwest of Union City. Drainage area, 16.0 mi². Usable capacity, 304,000,000 ft³. 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 1988 TO SEPTEMBER 1989

	01201000	01201999	01202000	01203500	01205000	01205560 HALL MEADOW BROOK	01205610
Date	LAKE CANDLEWOOD	CAIRNS RESERVOIR	SHEPAUG RESERVOIR	LAKE LILLINONAH	LAKE ZOAR	DETENTION RESERVOIR	LAKE WINCHESTER
Sept. 30, 1988....	5678	181	87.7	1492	253.5	0.5	114.8
Oct. 31.....	5702	156	96.3	1521	294.1	5.7	116.2
Nov. 30.....	5487	249	98.8	1514	262.5	8.7	116.2
Dec. 31.....	3508	292	97.8	1559	280.6	8.3	116.2
Jan. 31, 1989....	3422	323	95.2	1567	289.6	8.1	116.2
Feb. 28.....	3749	358	96.9	1559	285.1	8.1	116.2
Mar. 31.....	4419	364	99.7	1320	303.3	7.0	116.2
Apr. 30.....	5583	361	97.1	1320	86.6	1.1	116.2
May 31.....	5967	363	98.2	1567	294.1	4.8	116.2
June 30.....	5846	361	97.3	1507	307.9	.7	116.2
July 31.....	5822	361	95.7	1575	312.5	.6	116.2
Aug. 31.....	5846	361	82.1	1590	303.3	.6	115.9
Sept. 30.....	5678	355	95.2	1597	326.2	.7	116.2

	01205650 EAST BRANCH DETENTION RESERVOIR	01206600 THOMASTON RESERVOIR	01206940 NORTHFIELD BROOK LAKE	01207000 PITCH RESERVOIR	01207500 MORRIS RESERVOIR
Sept. 30, 1988....	0.0	0.2	4.8	189.8	265.8
Oct. 31.....	.1	.2	5.2	190.0	260.8
Nov. 30.....	.1	.8	5.0	189.4	267.4
Dec. 31.....	.1	.4	4.9	189.4	261.9
Jan. 31, 1989....	.1	.4	4.9	189.9	267.4
Feb. 28.....	.1	.3	4.9	189.2	263.4
Mar. 31.....	1.4	44.8	5.2	189.8	269.1
Apr. 30.....	.1	.6	5.0	190.0	263.4
May 31.....	.1	.6	5.0	189.4	267.6
June 30.....	.1	.3	4.9	189.1	263.4
July 31.....	.0	.2	4.9	189.9	265.1
Aug. 31.....	.0	.2	4.9	189.5	264.1
Sept. 30.....	.1	.3	4.9	189.1	268.1

	01208000 WIGWAM RESERVOIR	01208011 BLACK ROCK LAKE	01208130 HANCOCK BROOK LAKE	01208410 HOP BROOK LAKE
Sept. 30, 1988....	62.7	2.4	8.6	1.8
Oct. 31.....	66.2	3.7	8.5	1.8
Nov. 30.....	99.0	13.6	8.8	2.4
Dec. 31.....	67.9	13.5	9.1	2.1
Jan. 31, 1989....	82.2	13.2	9.2	1.4
Feb. 28.....	98.6	5.1	8.8	.9
Mar. 31.....	98.6	15.6	9.8	7.2
Apr. 30.....	98.4	13.4	9.0	6.2
May 31.....	94.0	13.6	9.2	6.3
June 30.....	98.2	13.3	8.9	6.1
July 31.....	98.0	13.2	8.8	5.9
Aug. 31.....	98.5	13.3	9.0	6.1
Sept. 30.....	98.4	13.5	9.0	.9

01208873 ROOSTER RIVER AT FAIRFIELD, CT

LOCATION.--Lat 41°10'47", long 73°13'10", Fairfield County, Hydrologic Unit 01100006, on left bank, on floodwall, at corner of Renwick Drive and Renwick Place, Bridgeport

DRAINAGE AREA.--10.6 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 5.44 ft above National Geodetic Vertical Datum of 1929. Prior to June 22, 1988, at site 1,300 ft downstream at datum 3.06 ft lower.

REMARKS.--Records good except those for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Prior to June 22, 1988, stage sometimes affected by tide.

AVERAGE DISCHARGE.--12 years, 16.4 ft³/s, 21.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft³/s, Apr. 9, 1980, gage height, 11.65 ft, site and datum then in use; minimum, 0.16 ft³/s, Oct. 2, 1980, gage height, 2.72 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,360 ft³/s, May 2, gage height, 8.45 ft; minimum daily, 2.8 ft³/s, Sept. 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	83	18	10	8.7	12	32	50	70	8.3	4.4	3.7
2	12	17	16	10	8.4	11	22	323	35	8.2	4.1	3.6
3	7.0	8.1	15	10	12	11	29	41	20	7.8	3.7	3.4
4	4.0	7.1	14	8.8	8.6	10	25	30	23	7.3	4.0	3.1
5	3.8	61	14	8.7	7.9	11	24	48	17	75	3.5	3.1
6	3.6	22	14	8.3	8.2	15	28	92	29	13	3.5	3.1
7	10	13	13	9.3	7.9	9.8	23	33	52	10	16	3.1
8	19	11	13	20	7.4	9.3	36	27	27	9.5	4.2	3.0
9	4.0	11	12	10	7.0	9.2	25	23	268	7.5	3.0	2.9
10	3.3	13	12	8.7	6.9	8.8	20	113	141	42	3.0	3.0
11	e3.0	12	11	8.3	6.8	8.7	18	110	43	13	109	3.0
12	e2.6	11	10	27	6.9	10	17	44	34	7.4	116	2.8
13	e2.5	45	11	14	6.6	8.8	16	32	62	7.0	44	2.8
14	e2.4	14	11	10	38	8.3	15	27	39	6.8	16	47
15	e2.3	10	e10	25	18	8.5	46	24	53	6.2	12	16
16	e2.5	9.7	10	12	14	8.1	46	373	42	13	9.9	5.1
17	e2.8	49	9.8	11	9.8	7.9	22	129	35	36	8.4	13
18	e3.0	15	9.4	10	9.1	25	19	51	29	8.2	7.3	4.3
19	e3.0	12	9.3	11	8.7	11	18	38	22	7.0	7.4	20
20	e3.0	292	9.5	10	8.4	9.2	16	32	20	8.9	7.5	12
21	17	59	e10	9.2	102	25	15	35	18	7.6	6.8	10
22	100	34	11	9.2	32	12	14	25	17	7.0	6.1	8.1
23	5.6	26	18	8.6	20	10	14	34	16	6.2	5.7	8.3
24	4.5	20	27	8.3	16	98	13	259	15	5.7	5.3	7.5
25	e4.0	18	18	7.9	14	56	13	50	14	5.4	5.0	7.7
26	e3.7	16	13	19	13	23	12	37	13	5.2	4.7	25
27	e3.5	20	12	13	14	19	12	36	11	5.0	4.5	8.6
28	e3.4	68	21	8.8	12	17	12	27	11	4.9	4.5	7.7
29	e3.3	23	14	8.5	---	16	16	23	9.8	4.4	9.5	7.6
30	e3.1	20	12	14	---	49	35	21	9.0	4.5	9.3	7.2
31	e3.0	---	11	9.4	---	62	---	20	---	4.5	3.9	---
TOTAL	248.7	1019.9	409.0	358.0	432.3	599.6	653	2207	1194.8	362.5	452.2	255.7
MEAN	8.02	34.0	13.2	11.5	15.4	19.3	21.8	71.2	39.8	11.7	14.6	8.52
MAX	100	292	27	27	102	98	46	373	268	75	116	47
MIN	2.3	7.1	9.3	7.9	6.6	7.9	12	20	9.0	4.4	3.0	2.8
CFSM	.76	3.21	1.24	1.09	1.46	1.82	2.05	6.72	3.76	1.10	1.38	.80
IN.	.87	3.58	1.44	1.26	1.52	2.10	2.29	7.75	4.19	1.27	1.59	.90

CAL YR 1988 TOTAL 5004.9 MEAN 13.7 MAX 292 MIN 1.5 CFSM 1.29 IN. 17.56
WTR YR 1989 TOTAL 8192.7 MEAN 22.4 MAX 373 MIN 2.3 CFSM 2.12 IN. 28.75

e Estimated

MILL RIVER BASIN

01208925 MILL RIVER NEAR FAIRFIELD, CT

LOCATION.--Lat 41°09'55", long 73°16'14", Fairfield County, Hydrologic Unit 01100006, on right bank just downstream from bridge on Duck Farm Road, 1.5 mi north of Fairfield, 18.3 mi downstream from headwater of Aspetuck River, 14.0 mi downstream from headwater of Mill River, and 2.3 mi upstream from mouth at Southport Harbor.

DRAINAGE AREA.--28.6 mi².

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

REVISED RECORDS.--WDR CT-80-1: 1973-74, 1976-79 (P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 15.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of estimated record, which are fair. Several measurements of water temperature were made during the year. Flow completely regulated by Easton, Hemlock, and Samp Mortar Reservoirs, usable capacity 609,900,000 ft³, 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.--17 years, 39.8 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s, Apr. 10, 1980, gage height, 7.15 ft; minimum, no flow on Nov. 7, 1979 (reg.).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 976 ft³/s, May 24, gage height, 5.61 ft; minimum, 2.0 ft³/s, Oct. 1, 2, 7, 15, 16, gage height, 0.87 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	31	35	19	19	24	76	42	82	16	4.4	5.4
2	2.8	43	31	e18	18	22	51	390	100	14	4.2	5.0
3	6.0	21	29	e17	20	21	50	237	70	12	4.1	4.1
4	4.2	13	26	e15	19	21	48	125	62	11	3.8	3.7
5	2.7	25	25	13	16	21	44	97	59	35	3.8	3.6
6	2.3	57	24	e13	16	25	52	287	62	31	3.4	3.4
7	2.6	28	24	14	16	21	46	227	71	19	7.3	3.3
8	11	20	22	21	15	18	59	139	81	17	4.6	3.2
9	6.1	16	21	21	13	19	49	104	200	14	3.1	3.1
10	4.4	13	e19	17	12	19	44	130	428	15	2.9	3.2
11	3.5	12	e18	15	e11	18	39	348	194	25	46	2.9
12	2.9	9.6	16	23	e10	19	35	218	112	18	69	3.1
13	2.7	23	18	30	11	18	33	145	121	13	62	2.8
14	2.3	30	19	21	33	17	32	110	104	11	36	11
15	2.2	19	18	32	28	17	41	91	127	10	35	26
16	2.3	15	17	26	28	16	108	380	156	10	29	10
17	2.4	39	16	22	22	15	84	664	131	36	23	13
18	2.8	33	15	20	19	22	72	338	106	19	17	8.2
19	3.3	22	14	20	18	25	66	192	80	13	12	14
20	2.8	158	14	19	17	19	57	138	64	12	10	18
21	3.8	136	e13	17	75	31	48	115	56	11	9.3	17
22	58	62	e16	15	67	25	51	103	53	10	8.1	12
23	14	49	21	15	46	21	43	87	47	9.3	7.7	9.4
24	10	41	29	15	36	50	37	580	43	8.0	7.2	6.6
25	8.8	36	35	15	31	116	33	556	38	7.0	6.3	6.0
26	6.9	32	25	20	28	53	29	256	33	6.5	5.3	16
27	5.8	31	22	28	28	41	28	182	29	5.8	4.6	11
28	5.8	70	25	21	26	37	28	141	25	5.6	4.7	7.4
29	5.7	49	28	19	---	34	25	104	26	4.6	5.2	6.7
30	4.7	39	23	22	---	43	48	86	21	4.4	10	6.0
31	4.9	---	21	21	---	79	---	78	---	4.4	7.0	---
TOTAL	199.7	1172.6	679	604	698	927	1456	6690	2781	427.6	456.0	245.1
MEAN	6.44	39.1	21.9	19.5	24.9	29.9	48.5	216	92.7	13.8	14.7	8.17
MAX	58	158	35	32	75	116	108	664	428	36	69	26
MIN	2.0	9.6	13	13	10	15	25	42	21	4.4	2.9	2.8

CAL YR 1988 TOTAL 6793.4 MEAN 18.6 MAX 158 MIN 1.2
WTR YR 1989 TOTAL 16336.0 MEAN 44.8 MAX 664 MIN 2.0

e Estimated

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 northwest of Southport.

DRAINAGE AREA.--7.38 mi².

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1961-64. October 1964 to current year.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.01 ft above 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 except those for periods of estimated record, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 13.7 ft³/s, 25.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s, June 19, 1972, gage height, 7.00 ft; minimum, 0.01 ft³/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 and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2230	229	3.33	May 16	2100	*670	*4.89
Mar. 25	0200	176	3.07	24	1630	495	4.67
May 2	1300	416	4.07	June 10	0200	286	3.75
11	0430	223	3.30				

Minimum discharge, 0.56 ft³/s, Sept. 14, gage height, 1.07 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	12	16	8.4	9.6	12	58	20	25	6.1	1.5	1.4
2	.67	21	14	8.3	8.8	11	32	220	47	5.3	1.4	1.3
3	1.3	10	13	8.3	9.8	11	31	74	25	4.6	1.2	1.1
4	1.1	6.5	12	e6.5	e8.8	11	31	38	18	4.3	1.1	.96
5	.94	11	11	e5.2	7.5	11	28	34	15	19	1.0	.89
6	.76	29	10	e4.9	7.5	14	34	102	20	18	.96	.84
7	.73	12	10	e4.7	e7.0	e10	28	49	31	8.8	1.1	.74
8	3.2	7.6	9.5	11	e6.3	e9.0	37	33	34	6.7	1.1	.74
9	2.5	6.2	8.8	12	e5.6	e8.8	30	29	89	5.0	.94	.73
10	1.9	5.4	e8.0	8.7	5.0	9.8	25	48	170	4.3	.85	.68
11	1.9	5.2	e6.8	7.5	4.9	9.4	20	148	55	4.6	14	.68
12	1.4	4.6	5.7	12	5.3	11	18	59	32	3.7	59	.68
13	1.3	9.8	5.3	18	5.1	10	17	40	53	3.5	36	.66
14	1.4	15	6.3	10	22	9.4	16	32	38	3.4	17	2.0
15	1.4	8.9	7.1	19	20	9.8	22	28	53	2.8	9.9	8.1
16	1.4	6.8	e6.7	14	20	9.4	70	244	56	2.6	7.2	3.9
17	1.4	19	e6.3	11	e11	8.5	33	300	41	17	5.5	5.0
18	1.3	17	5.9	9.6	e9.2	13	24	91	34	8.6	4.0	3.4
19	1.4	10	5.6	10	e8.2	18	21	54	24	5.6	3.6	5.2
20	1.5	104	5.8	9.5	e7.6	12	18	41	19	4.6	3.8	7.5
21	1.8	110	9.1	7.8	57	22	16	36	17	5.2	3.3	7.7
22	24	34	10	6.3	59	17	15	31	17	4.7	2.8	5.3
23	8.0	22	10	6.5	30	12	14	26	14	4.2	2.3	4.2
24	4.7	18	16	6.8	20	37	13	289	13	3.3	2.0	3.2
25	3.4	16	23	7.0	15	106	12	144	12	2.5	1.7	2.6
26	2.9	14	13	9.9	13	37	12	69	10	2.1	1.6	6.3
27	2.6	14	9.9	17	14	26	11	53	10	2.0	1.3	5.2
28	2.5	46	12	11	14	22	10	41	9.2	1.8	1.3	3.5
29	2.5	29	15	9.1	---	19	10	30	9.0	1.5	1.4	3.0
30	2.4	19	11	11	---	26	31	26	7.0	1.5	2.1	2.5
31	2.2	---	9.2	11	---	63	---	23	---	1.5	1.8	---
TOTAL	85.14	643.0	312.0	302.0	411.2	605.1	737	2452	997.2	168.8	192.75	90.00
MEAN	2.75	21.4	10.1	9.74	14.7	19.5	24.6	79.1	33.2	5.45	6.22	3.00
MAX	24	110	23	19	59	106	70	300	170	19	59	8.1
MIN	.64	4.6	5.3	4.7	4.9	8.5	10	20	7.0	1.5	.85	.66
CFSM	.37	2.90	1.36	1.32	1.99	2.64	3.33	10.7	4.50	.74	.84	.41
IN.	.43	3.24	1.57	1.52	2.07	3.05	3.71	12.36	5.03	.85	.97	.45

CAL YR 1988 TOTAL 3418.77 MEAN 9.34 MAX 110 MIN .20 CFSM 1.27 IN. 17.23
WTR YR 1989 TOTAL 6996.19 MEAN 19.2 MAX 300 MIN .64 CFSM 2.60 IN. 35.27

e Estimated

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 south of intersection of State Highways 53 and 107, 0.8 mi upstream from Saugatuck Reservoir, and 1.0 mi southwest of Redding.

DRAINAGE AREA.--21.0 mi².

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). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 285.42 ft above 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 except for periods of estimated record, which are fair.

AVERAGE DISCHARGE.--25 years, 41.7 ft³/s, 26.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s, Mar. 25, 1969, gage height, 5.88 ft; minimum observed, 0.05 ft³/s, Sept. 2, 1966; minimum gage height, 0.60 ft, Aug. 31, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2230	309	3.43	May 16	1730	*540	*4.08
May 2	1000	234	3.16	24	1230	346	3.55
6	0630	400	3.71	Jun. 9	2330	237	3.17
11	0230	286	3.35				

Minimum discharge, 0.70 ft³/s, Oct. 1, gage height, 0.74 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	15	73	28	33	e29	135	40	70	17	3.8	4.0
2	.83	30	62	27	30	e28	100	161	71	15	3.5	3.6
3	1.2	16	55	27	31	e27	91	118	59	13	3.2	2.9
4	1.2	11	48	24	e29	e27	90	87	53	12	3.0	2.7
5	1.2	29	44	e22	26	e26	89	79	49	32	3.1	2.3
6	1.0	70	39	e21	25	e27	123	305	50	37	6.3	2.8
7	.98	37	37	19	e24	e25	114	229	66	26	2.6	2.3
8	4.4	26	35	25	e22	e24	119	157	86	20	2.3	2.0
9	5.1	20	33	31	e21	e23	102	121	126	14	1.9	1.8
10	3.4	16	32	26	e20	e22	89	137	187	13	1.6	5.9
11	2.8	14	30	23	e19	22	77	249	135	16	7.5	5.1
12	2.2	13	e28	28	18	23	68	199	90	11	79	1.7
13	1.9	23	e26	41	19	e22	63	147	90	9.6	101	.98
14	1.6	33	e25	30	31	22	58	117	83	11	67	2.3
15	1.6	26	e24	47	37	24	61	99	98	13	37	14
16	1.5	20	e23	41	44	27	122	259	116	9.0	24	7.9
17	1.5	42	e22	34	31	24	97	465	101	27	16	6.9
18	1.5	37	e21	30	e28	33	83	311	82	19	9.9	5.3
19	1.5	30	20	32	25	44	74	202	66	13	8.4	7.2
20	4.7	134	21	30	23	34	65	152	54	10	9.0	27
21	7.8	237	25	27	57	46	56	136	49	13	8.3	37
22	28	156	27	e25	81	42	49	129	46	13	7.2	28
23	19	98	26	e23	66	34	41	105	40	15	5.2	25
24	13	78	38	e21	48	56	37	272	38	12	4.5	23
25	9.9	63	63	e20	e42	124	36	224	34	9.5	3.9	16
26	6.5	52	45	33	e37	92	34	160	30	7.5	3.2	21
27	4.2	45	35	53	e33	70	33	142	31	5.9	2.8	20
28	3.3	126	39	37	e31	58	30	117	26	5.3	2.8	14
29	6.0	112	47	33	---	53	31	96	23	4.4	3.0	11
30	3.5	89	37	36	---	67	52	81	20	3.8	8.5	9.5
31	2.6	---	32	36	---	132	---	71	---	3.7	6.8	---
TOTAL	144.67	1698	1112	930	931	1307	2219	5167	2069	430.7	446.3	313.18
MEAN	4.67	56.6	35.9	30.0	33.2	42.2	74.0	167	69.0	13.9	14.4	10.4
MAX	28	237	73	53	81	132	135	465	187	37	101	37
MIN	.76	11	20	19	18	22	30	40	20	3.7	1.6	.98
CFSM	.22	2.70	1.71	1.43	1.58	2.01	3.52	7.94	3.28	.66	.69	.50
IN.	.26	3.01	1.97	1.65	1.65	2.32	3.93	9.15	3.67	.76	.79	.55

CAL YR 1988 TOTAL 9789.75 MEAN 26.7 MAX 237 MIN .72 CFSM 1.27 IN. 17.34
WTR YR 1989 TOTAL 16767.85 MEAN 45.9 MAX 465 MIN .76 CFSM 2.19 IN. 29.70

e Estimated

SAUGATUCK RIVER BASIN

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01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years, 1964, 1966, June 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)
OCT												
18...	1020	1.5	248	7.81	17.0	12.0	0.30	9.2	87	K6	30	100
NOV												
10...	1000	16	220	7.84	15.0	7.0	0.95	11.3	94	28	21	78
DEC												
14...	1225	25	241	8.01	3.5	0.5	0.60	14.6	102	28	K19	83
JAN												
10...	1130	25	217	7.82	2.0	0.5	0.60	15.7	107	K19	K12	79
MAR												
15...	1200	23	202	7.82	11.5	5.0	0.50	13.1	104	120	K3	76
APR												
10...	1040	90	173	7.45	11.0	7.5	0.50	12.6	105	K10	K16	--
MAY												
09...	1045	122	158	7.68	20.5	11.0	1.1	10.8	97	K18	K15	53
JUN												
13...	1145	97	164	7.68	20.0	17.5	1.7	9.5	100	160	880	59
JUL												
11...	1200	17	190	7.91	29.0	23.0	1.7	8.6	101	84	1400	75
AUG												
07...	1055	2.6	227	8.46	25.0	23.0	0.90	9.1	108	25	80	98
SEP												
06...	1255	2.9	227	8.81	22.0	18.0	0.80	9.9	104	100	48	90

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, 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)
OCT												
18...	27	9.0	--	15	20	--	151	0.20	0.61	160	--	<0.010
NOV												
10...	20	6.7	53	19	21	11	142	0.19	6.13	142	--	<0.010
DEC												
14...	22	6.9	--	19	22	--	135	0.18	9.11	143	--	<0.010
JAN												
10...	21	6.4	52	17	21	10	117	0.32	7.90	131	--	<0.010
MAR												
15...	20	6.3	--	16	20	--	117	0.16	7.26	115	0.170	0.030
APR												
10...	--	--	--	16	19	--	107	0.14	26.0	116	--	<0.010
MAY												
09...	14	4.5	39	12	16	6.6	95	0.13	31.3	88	--	0.010
JUN												
13...	16	4.7	--	10	14	--	92	0.12	24.1	119	--	<0.010
JUL												
11...	20	6.0	61	9.0	15	9.1	121	0.16	5.55	122	0.190	0.010
AUG												
07...	26	8.1	--	9.0	15	--	134	0.18	0.94	138	--	<0.010
SEP												
06...	24	7.4	--	9.0	16	--	128	0.17	1.00	123	--	<0.010

SAUGATUCK RIVER BASIN

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS 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...	<0.100	<0.010	--	0.40	--	0.010	0.010	--	<1	--	<1	--
NOV 10...	<0.100	0.040	0.46	0.50	--	0.020	0.020	1	<1	<1	<1	5
DEC 14...	0.300	0.010	0.39	0.40	0.70	0.010	<0.010	--	<1	--	1	--
JAN 10...	0.300	0.030	0.17	0.20	0.50	<0.010	<0.010	<1	<1	1	1	4
MAR 15...	0.200	0.020	0.28	0.30	0.50	0.010	0.010	1	<1	<1	2	14
APR 10...	0.100	<0.010	--	0.30	0.40	0.010	<0.010	--	<1	--	1	--
MAY 09...	<0.100	0.020	--	<0.20	--	0.020	<0.010	<1	1	1	<1	3
JUN 13...	0.200	0.010	0.49	0.50	0.70	0.020	0.020	--	<1	--	1	--
JUL 11...	0.200	0.320	0.08	0.40	0.60	0.020	0.030	<1	<1	1	1	3
AUG 07...	<0.100	<0.010	--	0.40	--	0.310	0.310	--	<1	--	<1	--
SEP 06...	<0.100	0.020	0.28	0.30	--	<0.010	0.010	<1	<1	<1	<1	2

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...	<1	--	--	--	<5	--	--	<1	--	18	4.3
NOV 10...	2	120	87	<5	<5	10	4	2	<10	9	6.3
DEC 14...	1	--	--	--	<5	--	--	<1	--	3	3.8
JAN 10...	<1	120	74	<5	<5	12	<1	<1	<10	<3	3.3
MAR 15...	<1	100	--	<5	<5	--	<1	6	30	9	2.2
APR 10...	2	--	--	--	<5	--	--	2	--	<3	--
MAY 09...	1	230	84	1	<1	7	3	1	10	10	4.0
JUN 13...	4	--	--	--	1	--	--	12	--	<3	5.4
JUL 11...	1	590	180	7	1	20	2	1	20	9	6.0
AUG 07...	2	--	--	--	<1	--	--	1	--	8	4.6
SEP 06...	1	110	--	<1	<1	--	1	<1	<10	<3	4.4

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 north of Norwalk.

DRAINAGE AREA.--30.0 mi².

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water years 1961-62. September 1962 to current year. Water-quality records: Water years 1976-78.

REVISED RECORDS.--WDR CT-80-1: 1968-70 (P), 1971-79 (M,P).

GAGE.--Water-stage recorder. Datum of gage is 115.69 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of temperature were made during the year. 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. High flows effected by Spectacle Swamp Detention Reservoir, drainage area, 1.16 mi².

AVERAGE DISCHARGE.--27 years, 57.2 ft³/s, 25.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s, Apr. 10, 1980, gage height, 6.27 ft; minimum, 0.3 ft³/s, Sept. 24, 1964, gage height, 0.82 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a stage of 13.5 ft from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 20	2300	590	2.90	May 5	1000	904	3.43
Mar. 25	0100	389	2.54	11	0430	762	3.20
31	2230	315	2.39	16	2130	*2310	*5.43
Apr. 16	0400	344	2.45	24	1600	749	3.47
May 2	1030	745	3.17	Jun. 10	0030	498	2.97

Minimum discharge, 4.0 ft³/s, Oct. 1, 2, gage height, 0.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	30	72	33	38	39	263	65	112	30	11	12
2	5.0	49	62	32	36	37	172	553	143	27	10	13
3	5.5	31	55	31	38	35	173	267	90	25	10	11
4	4.5	28	49	e28	37	35	165	157	78	24	9.8	9.7
5	4.2	50	45	e26	32	37	158	159	73	66	9.3	9.2
6	4.6	99	42	e24	e29	42	233	846	76	68	9.0	9.3
7	4.7	50	41	22	e27	35	189	416	89	45	9.5	9.6
8	7.9	42	39	29	e25	30	211	276	118	36	9.7	8.8
9	6.0	34	36	36	23	30	178	221	251	27	8.6	8.2
10	6.2	26	34	31	21	30	147	352	414	24	8.2	8.2
11	6.4	21	32	27	20	29	119	742	196	22	38	8.2
12	6.3	17	e28	35	20	31	102	412	141	20	162	8.1
13	5.5	34	24	51	e19	31	92	304	187	18	145	8.1
14	5.1	45	27	38	42	29	90	244	158	18	87	18
15	4.9	32	28	61	47	31	107	207	197	16	64	34
16	4.8	28	26	52	55	31	312	1010	217	16	48	22
17	4.9	61	25	43	41	30	166	1460	177	57	36	25
18	5.4	51	23	37	34	40	133	604	143	34	25	21
19	5.7	39	22	37	30	55	117	403	111	26	18	29
20	5.8	248	24	36	27	42	90	302	82	23	21	46
21	7.2	360	29	32	110	58	81	250	76	24	16	57
22	50	162	34	e25	124	53	75	214	73	24	15	44
23	22	112	33	e23	84	42	68	187	65	21	14	38
24	19	85	52	e22	64	96	63	692	60	16	13	29
25	17	69	79	25	52	249	59	426	56	15	13	23
26	15	57	54	35	47	112	56	280	49	14	11	35
27	12	51	43	59	45	88	53	245	48	13	9.8	30
28	11	165	45	44	41	77	49	198	44	12	11	23
29	9.6	111	52	39	---	69	48	154	41	11	12	21
30	9.1	84	41	42	---	104	78	130	35	11	18	18
31	8.6	---	36	41	---	255	---	113	---	11	13	---
TOTAL	287.9	2271	1232	1096	1208	1902	3847	11889	3600	794	884.9	636.4
MEAN	9.29	75.7	39.7	35.4	43.1	61.4	128	384	120	25.6	28.5	21.2
MAX	50	360	79	61	124	255	312	1460	414	68	162	57
MIN	4.0	17	22	22	19	29	48	65	35	11	8.2	8.1
CFSM	.31	2.52	1.32	1.18	1.44	2.05	4.27	12.8	4.00	.85	.95	.71
IN.	.36	2.82	1.53	1.36	1.50	2.36	4.77	14.74	4.46	.98	1.10	.79

CAL YR 1988 TOTAL 12244.8 MEAN 33.5 MAX 360 MIN 4.0 CFSM 1.12 IN. 15.18
WTR YR 1989 TOTAL 29648.2 MEAN 81.2 MAX 1460 MIN 4.0 CFSM 2.71 IN. 36.76

e Estimated

NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUKE, CT

LOCATION.--Lat 41°08'07", long 73°25'36", Fairfield County, Hydrologic Unit 01100007, on Perry Ave., 0.6 mi south of Winnipauk, and 0.3 mi upstream from confluence of Silvermine River.

DRAINAGE AREA, --33.0 mi².

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01209700, 2.1 mi 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 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.45- UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 03...	1210	5.5	257	8.57	18.5	19.0	--	12.4	134	--	--
18...	0900	5.7	330	8.64	21.5	15.5	0.70	12.6	128	7800	14000
NOV 10...	1245	28	322	8.03	17.0	9.5	1.1	12.2	108	400	47
DEC 14...	1405	29	320	7.93	0.5	1.5	1.0	14.6	104	110	25
JAN 10...	1315	33	291	7.97	3.0	2.5	1.4	14.4	103	44	K6
25...	1455	24	307	8.25	7.0	5.0	--	14.9	114	--	--
FEB 07...	1350	30	326	7.93	1.0	3.5	--	15.2	113	--	--
22...	1355	132	220	7.77	4.5	5.0	--	13.2	104	--	--
MAR 15...	1330	34	295	8.72	18.0	6.5	1.5	15.0	122	37	K18
28...	1350	85	264	8.57	28.0	12.5	1.0	12.4	117	--	--
APR 10...	1230	132	238	8.53	17.5	9.0	1.6	13.2	113	38	K6
25...	1240	55	267	9.24	19.0	12.0	1.6	13.5	126	--	--
MAY 09...	1250	195	212	7.92	25.0	13.0	1.5	10.8	101	98	50
31...	1140	104	245	7.98	29.0	17.0	2.5	8.4	86	--	--
JUN 13...	1325	188	202	7.70	20.5	17.0	5.1	9.7	100	520	3100
27...	1205	45	270	8.39	30.0	24.0	1.5	9.3	111	--	--
JUL 11...	1010	20	293	7.92	28.0	23.0	1.7	9.4	110	1100	170
25...	1215	15	308	8.28	30.0	24.0	1.0	9.8	115	--	--
AUG 07...	1215	8.3	304	7.88	26.5	25.0	2.1	9.0	110	63000	55000
22...	1035	15	281	8.64	27.0	23.0	1.5	12.4	145	--	--
SEP 06...	1400	8.7	321	8.64	24.5	21.0	1.2	11.2	124	200	200
19...	1045	21	294	8.01	18.5	17.5	2.4	9.0	93	--	--

[illegible]

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, 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)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)
OCT											
03...	--	--	0.300	0.310	0.020	0.030	0.48	0.50	0.80	0.050	0.020
18...	--	<0.010	0.100	0.110	<0.010	<0.010	--	0.30	0.40	0.020	0.010
NOV											
10...	0.290	0.010	0.300	--	0.030	--	0.47	0.50	0.80	0.090	0.080
DEC											
14...	0.990	0.010	1.00	--	0.120	--	0.38	0.50	1.5	0.040	0.020
JAN											
10...	--	<0.010	0.800	0.810	0.020	0.010	0.38	0.40	1.2	0.040	0.020
25...	--	--	0.700	0.750	0.130	0.110	0.37	0.50	1.2	0.080	0.020
FEB											
07...	--	--	0.700	0.630	0.030	0.010	0.27	0.30	1.0	0.040	0.020
22...	--	--	0.700	0.700	0.030	0.020	0.37	0.40	1.1	0.080	0.020
MAR											
15...	--	--	--	0.330	--	<0.010	--	--	--	--	--
28...	--	--	0.400	0.360	<0.010	0.020	--	0.40	0.80	0.040	0.020
APR											
10...	--	<0.010	0.300	0.350	0.030	0.030	0.67	0.70	1.0	0.050	0.030
25...	--	--	0.100	0.110	0.010	0.020	0.49	0.50	0.60	0.040	0.010
MAY											
09...	--	<0.010	0.400	0.340	0.020	<0.010	0.28	0.30	0.70	0.060	0.040
31...	--	--	0.500	0.480	0.020	0.030	0.38	0.40	0.90	0.070	0.060
JUN											
13...	0.390	0.010	0.400	0.410	0.020	0.030	0.58	0.60	1.0	0.120	0.060
27...	--	--	0.400	0.440	0.050	0.020	0.35	0.40	0.80	0.080	0.050
JUL											
11...	0.690	0.010	0.700	0.720	0.060	0.050	0.44	0.50	1.2	0.060	0.050
25...	--	--	0.400	0.490	0.030	0.010	0.27	0.30	0.70	0.070	0.050
AUG											
07...	--	<0.010	0.300	0.340	0.310	0.340	0.39	0.70	1.0	0.020	0.020
22...	--	--	0.300	0.280	0.010	0.020	0.29	0.30	0.60	0.080	0.040
SEP											
06...	--	<0.010	0.300	0.380	0.040	0.050	0.66	0.70	1.0	0.040	0.060
19...	--	--	0.400	0.290	0.050	0.060	0.55	0.60	1.0	0.090	0.060

[illegible]

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 September 1989. (Records not published after this water year. Stage data available at U.S.G.S., Connecticut Office).

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 below National Geodetic Vertical Datum, in order to prevent negative values and is converted to elevation above or below (-) National Geodetic Vertical Datum for publication.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum tidal elevation, 9.70 ft, Feb. 6, 1978; minimum, -7.94 ft, Feb. 2, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum tidal elevation, 11.0 ft, Sept. 21, 1938, at site 0.3 mi west in Stamford Harbor and at same datum, gage operated by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum tidal elevation recorded, 7.99 ft, Oct. 22; minimum, -6.12 ft, Feb. 9.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	7.99	5.79	5.57	6.00	5.44	5.78	5.86	6.38	5.97	5.75	6.13	6.90
	Date	22	24	13	7	7	25	8	5	2	21	19	16
	Time	0730	1115	1400	1030	1130	0030	0015	2315	2245	0145	1315	1215
Minimum low tide	Elevation	-4.38	-5.79	-4.57	-5.20	-6.12	-4.27	-5.18	-4.75	-4.18	-3.83	-3.80	-3.99
	Date	27	21	15	21	9	6	7	4	3	22	18	15
	Time	1900	1600	2245	0430	0745	1615	0600	0400	0615	0900	0700	1800

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.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	SALINITY (PPT)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION (%)	COLIFORM, FECAL, (PER-CENT UM-MF (COLS./100 ML)
NOV 14...	1045	5.00	39700	8.02	26.0	13.0	12.0	2.0	8.4	91	180
JAN 19...	1110	5.00	39100	8.16	25.0	10.0	2.0	2.4	13.2	112	K2
MAY 19...	1015	5.00	29500	7.87	18.5	26.0	15.0	2.6	9.3	101	2000
JUL 13...	1015	5.00	37900	8.05	24.0	21.0	18.0	2.1	9.0	109	K12

DATE	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)	HARDNESS NONCARB WH WAT TOT FLD (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)
NOV 14...	57	4100	4000	230	860	96	2200	15000	1.6	28900
JAN 19...	<1	4300	4200	270	890	98	2300	16000	1.1	29000
MAY 19...	80	3600	3500	240	740	85	1700	11000	2.0	21400
JUL 13...	K15	4400	4300	280	900	94	2000	14000	0.90	26600

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)	PHOSPHOROUS TOTAL (MG/L AS P)
NOV 14...	39.3	31300	0.200	0.100	0.300	0.400	0.30	0.70	1.0	0.100
JAN 19...	39.4	29100	0.140	0.060	0.200	0.260	0.24	0.50	0.70	0.080
MAY 19...	29.1	22500	0.170	0.030	0.200	0.460	0.54	1.0	1.2	0.140
JUL 13...	36.2	29700	--	<0.010	<0.100	0.140	0.36	0.50	--	0.080

DATE	PHOSPHOROUS 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 14...	0.100	1	<1	3	160	<5	60	2	30	2.9
JAN 19...	0.020	<1	<1	2	150	<5	30	<1	40	4.0
MAY 19...	0.080	<4	7	5	130	<4	90	1	40	3.3
JUL 13...	0.040	<2	<5	2	160	<2	70	6	30	3.3

Discharge measurements made at miscellaneous sites during water year 1989

Station number and stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Thames River basin						
011230695 Shetucket River	Thames River	Lat 41°34'06", long 72°02'44", New London County, on right bank at Helicon Furniture Co. 900 ft upstream of Route 169 bridge.	512		08-02-89 08-16-89	276 3120
01125150 French River	Quinebaug River	Lat 41°56'51", long 71°53'23", Windham County, at West Thompson Road, 0.5 mi northeast of Mechanicsville. (a)	107	1983-88	11-14-88 12-12-88 01-17-89 03-16-89 04-13-89 05-10-89 06-16-89 07-14-89 08-11-89 09-05-89	146 152 91.4 83.4 353 459 374 58.0 80.6 78.9
01125500 Quinebaug River	Shetucket River	Lat 41°54'34", long 71°54'48", Windham County, on right bank at Putnam, 0.15 mi downstream from confluence of Little River.	328	1930-69(b) 1974-88	02-17-89 04-06-89 04-06-89 08-22-89 08-22-89	426 960 942 849 828
Connecticut River basin						
01189120 Farmington River	Connecticut River	Lat 41°48'24", long 72°49'23", Hartford County, at bridge on U.S. Highway 44, at Avon, 1.3 mi downstream from Nod Brook, and 3.9 mi upstream from Thompson Brook. (a)	465	1983-88	11-08-88 01-18-89 05-12-89 07-17-89	897 749 5920 768
01190000 Farmington River	Connecticut River	Lat 41°54'41", long 72°41'16", Hartford County, on left bank at Rainbow, 0.4 mi downstream from Farmington River Power Co. dam, 1.3 mi upstream from Poquonock, 6.4 mi downstream from Salmon Brook, and at mile 8.2.	590	1929-86(b) 1987-88	03-09-89 03-09-89	74.2 74.5
01191000 North Branch Park	Connecticut River	Lat 41°47'03", long 72°42'31", Hartford County, on right bank 60 ft. downstream from stone- arch bridge on Albany Avenue in Hartford, and 3 mi upstream from confluence with South Branch.	26.8	1936-86(b)	03-23-89 03-23-89 04-07-89	24.0 23.6 87.9
01193450 Schroeder Brook	Salmon River	Lat 41°35'33", long 72°25'50", Hartford County, at South Road, at South Marlborough. (a)	.72	1986-88	10-06-88 11-02-88 11-21-88 03-23-89 07-19-89	.07 3.13 6.50 1.41 1.02
01193465 Dickinson Creek	Salmon River	Lat 41°39'48", long 72°29'06", Hartford County, at dirt road, 0.25 mi west of Islieb Road, and 0.75 mi north of West Street, near Marlborough. (a)	.57	1986-88	10-06-88 10-07-88 11-02-88 11-21-88 03-23-89 05-16-89	.16 .17 .99 2.32 .69 4.84

a Water-quality samples collected.

b Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1989.--Continued

Station number and stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Quinnipiac River basin						
01196205 Quinnipiac River	Long Island Sound	Lat 41°33'00", long 72°52'25", New Haven County, 50 ft above East Johnson Avenue Bridge.	64.4		08-09-89 08-09-89	43.2 44.4
01196210 Honeypot Brook	Quinnipiac River	Lat 41°31'56", long 72°53'25", New Haven County, at bridge on Creamery Road, 1.3 mi upstream from Quinnipiac River.	2.06		06-05-89 06-10-89 07-03-89 08-15-89 09-22-89	6.57 36.0 4.44 12.8 4.63
01196215 Honeypot Brook	Quinnipiac River	Lat 41°32'33", long 72°52'40", New Haven County, at culverts on South Central Connecticut Regional Water Authority dirt road, .2 mi above Quinnipiac River.	3.15		06-01-89 06-05-89 07-03-89 08-15-89 09-22-89	9.56 8.36 4.53 14.8 4.70
01196220 Quinnipiac River	Long Island Sound	Lat 41°32'13", long 72°52'20" New Haven County, at bridge on Blacks Road, 3.5 mi west of Meriden.	68.3	1982-83	08-09-89 08-09-89 08-09-89	48.1 51.7 54.0
01196222 Quinnipiac River	Long Island Sound	Lat 41°31'45", long 72°51'50", New Haven County, at bridge on Cheshire Street, 3 mi west of Meriden, and 1.7 mi upstream from Hanover Pond.(a)	69.6	1983-88	10-17-88 11-15-88 12-12-88 01-13-89 03-20-89 04-12-89 05-17-89 06-14-89 07-10-89 08-08-89 09-05-89	32.2 129 79.6 138 122 193 888 389 103 88.9 101
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, until June 30, 1985, 200 ft upstream Old Lane Road, since July 1, 1985, 3.0 mi south of Cheshire.	5.90	1978-88	11-25-88 01-27-89 03-03-89 03-03-89 06-05-89 06-05-89 08-16-89	12.8 11.7 6.85 6.21 10.7 10.6 18.7
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, 2.4 mi south of Cheshire.	9.34	1960-76(c) 1978-88	11-25-88 01-27-89 03-03-89 03-03-89 06-05-89 06-05-89 08-16-89	22.6 23.2 15.3 14.4 27.8 28.8 37.4
Housatonic River Basin						
01198130 Housatonic River	Long Island Sound	Lat 42°03'31", long 73°20'57", Berkshire County, Massachusetts, at Andrus Road, 0.75 mi west of Ashley Falls, Massachusetts.(a)	471	1974 1983-88	10-20-88 12-15-88 03-17-89 04-17-89 05-12-89 06-16-89 07-17-89 08-10-89 09-02-89	368 958 622 2640 4710 2770 760 435 340

a Water-quality samples collected.

b Operated as a continuous-record gaging station.

c Operated as a low-flow and crest-stage station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES.--Continued

Discharge measurements made at miscellaneous sites during water year 1989.--Continued

Station number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Housatonic River basin--Continued						
01200000 Tenmile River	Housatonic River	Lat 41°39'32", long 73°31'44", Dutchess County, New York, on right bank 0.1 mi downstream from Deuel Hollow Brook, 1.2 mi upstream from New York- Connecticut State line, 1.7 mi upstream from mouth, and 2.5 mi northwest of Gaylordsville.	203	1929-87(b) 1988	01-05-89 04-05-89	161 538
01200600 Housatonic River	Long Island Sound	Lat 41°35'35", long 73°27'00", Litchfield County, at Boardman Bridge, 2.3 mi northwest of New Milford, 6.9 mi downstream from Tenmile River, 1.9 mi upstream from Aspetuck River, and 4.7 mi upstream from Still River.(a)	1,002	1983-88	10-20-88 11-07-88 01-09-89 03-17-89 04-13-89 05-12-89 06-15-89 07-17-89 08-10-89 09-01-89	220 2380 1290 1080 2940 9060 3520 443 610 787
01201510 Still River	Housatonic River	Lat 41°32'12", long 73°25'04", Litchfield County, on left bank at Lanesville, 0.9 mile upstream from mouth, and 2.5 miles south of New Milford.	69.6	1966-71(b) 1972-84(c) 1985-88(d)	04-05-89 08-03-89	239 36.9
01203000 Shepaug River	Housatonic River	Lat 41°32'59", long 73°19'49", Litchfield County, at Wellers Bridge, 1.2 miles southwest of Roxbury.(a)	132	1931-71(b) 1972-84(c) 1985-88(d)	04-17-89 08-03-89	550 57.2
01208171 Naugatuck River	Housatonic River	Lat 41°33'26", long 73°03'17", New Haven County, at West Main Street, at Waterbury.	174	1983-88	12-30-88 03-06-89 06-02-89	307 170 403

a Water-quality samples collected.

b Operated as a continuous-record gaging station.

c Operated as a low-flow and crest-stage station.

d Used as discharge for water-quality.

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 1988 TO SEPTEMBER 1989

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
THAMES RIVER BASIN							
01118245 GREEN FALL POND NEAR VOLUNTOWN, CT (LAT 41 31 46N LONG 071 48 37W)							
MAY 1989							
11...	1500	--	28	4.90	12.5	9.4	0.002
SEP							
06...	1400	1.00	35	5.00	22.5	8.5	0.003
06...	1405	19.0	30	4.80	21.0	7.4	0.003
06...	1410	23.0	35	4.70	18.0	0.7	0.003
06...	1415	27.0	40	5.35	15.0	0.1	0.002
01118659 LONG POND NEAR LEDYARD CENTER (LAT 41 27 00N LONG 071 57 00W)							
APR 1989							
26...	1245	--	80	6.70	11.0	11.0	0.004
SEP							
05...	1400	1.00	90	6.90	22.0	9.2	0.003
05...	1405	13.0	90	6.65	21.0	8.3	0.004
05...	1410	42.0	80	5.75	6.0	4.0	0.003
05...	1415	65.0	90	5.90	5.5	0.1	0.010
01120739 HALLS POND NEAR ASHFORD, CT (LAT 41 50 36N LONG 072 06 31W)							
APR 1989							
20...	1300	--	50	7.10	11.5	10.0	0.004
JUL							
31...	1000	1.00	50	7.10	25.5	8.6	0.004
31...	1001	9.00	55	6.40	24.0	4.5	0.004
31...	1002	11.0	70	6.30	22.0	1.2	0.003
01120860 MOREY POND NEAR UNION, CT (LAT 41 57 38N LONG 072 11 34W)							
APR 1989							
20...	1030	--	200	6.80	10.0	10.0	0.004
JUL							
27...	1230	1.00	180	6.90	27.5	7.4	0.004
27...	1231	6.00	175	6.70	25.0	4.5	0.004
27...	1232	9.00	175	6.50	24.0	3.8	0.004
27...	1233	12.0	175	6.40	23.5	2.8	0.004
01125728 ALEXANDER LAKE NEAR DAYVILLE, CT (LAT 41 51 25N LONG 071 54 22W)							
APR 1989							
25...	1445	--	45	6.80	10.5	11.0	0.003
AUG							
28...	1400	1.00	50	8.30	23.5	9.2	0.001
28...	1405	20.0	50	8.10	23.5	9.0	0.002
28...	1410	39.0	60	5.90	10.5	0.4	0.002
28...	1415	--	90	6.00	9.5	0.1	0.004
01126018 KILLINGLY POND NEAR EAST KILLINGLY, CT (LAT 41 51 32N LONG 071 48 08W)							
APR 1989							
25...	1300	--	35	5.10	10.5	10.6	0.006
AUG							
28...	1115	1.00	40	4.50	23.0	8.2	0.001
28...	1120	7.00	40	4.50	23.0	8.1	0.002
28...	1125	15.0	40	4.50	23.0	8.0	0.002
01126447 MOOSUP POND NEAR MOOSUP (LAT 41 44 02N LONG 071 52 00W)							
MAY 1989							
11...	1000	--	47	6.60	13.5	9.4	0.008
AUG							
04...	0845	1.00	65	7.10	26.5	10.3	0.002
04...	0846	12.0	65	6.96	22.5	7.3	<0.001
04...	0847	17.0	75	6.90	17.0	0.7	<0.001

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
THAMES RIVER BASIN.--Continued						
01118245	GREEN FALL POND NEAR VOLUNTOWN, CT (LAT 41 31 46N LONG 071 48 37W)					
MAY 1989						
11...	0.014	0.014	<0.20	0.003	--	--
SEP						
06...	<0.010	0.017	<0.20	0.002	0.300	<0.100
06...	<0.010	0.018	<0.20	<0.001	--	--
06...	<0.010	0.025	<0.20	0.005	--	--
06...	<0.010	0.014	0.30	0.006	--	--
01118659	LONG POND NEAR LEDYARD CENTER (LAT 41 27 00N LONG 071 57 00W)					
APR 1989						
26...	0.135	0.018	0.40	0.008	--	--
SEP						
05...	<0.010	0.014	0.30	0.006	2.30	<0.100
05...	0.019	0.018	0.30	0.006	--	--
05...	0.261	0.018	0.30	0.003	--	--
05...	0.216	0.118	0.50	0.008	--	--
01120739	HALLS POND NEAR ASHFORD, CT (LAT 41 50 36N LONG 072 06 31W)					
APR 1989						
20...	0.024	0.014	0.70	0.019	--	--
JUL						
31...	<0.010	0.021	0.30	0.009	1.70	0.100
31...	<0.010	0.033	0.40	0.024	--	--
31...	<0.010	0.036	0.50	0.031	--	--
01120860	MOREY POND NEAR UNION, CT (LAT 41 57 38N LONG 072 11 34W)					
APR 1989						
20...	<0.010	0.012	0.30	<0.002	--	--
JUL						
27...	<0.010	0.025	<0.20	0.003	0.400	<0.100
27...	<0.010	0.034	0.20	0.002	--	--
27...	<0.010	0.028	0.30	0.003	--	--
27...	<0.010	0.033	0.30	0.004	--	--
01125728	ALEXANDER LAKE NEAR DAYVILLE, CT (LAT 41 51 25N LONG 071 54 22W)					
APR 1989						
25...	<0.010	0.017	0.50	0.050	--	--
AUG						
28...	<0.010	0.028	1.0	0.023	2.60	0.400
28...	<0.010	0.007	0.80	0.006	--	--
28...	<0.010	0.007	0.80	0.007	--	--
28...	<0.010	0.292	0.50	0.051	--	--
01126018	KILLINGLY POND NEAR EAST KILLINGLY, CT (LAT 41 51 32N LONG 071 48 08W)					
APR 1989						
25...	0.018	0.016	0.30	0.010	--	--
AUG						
28...	<0.010	0.005	0.40	0.005	0.200	<0.100
28...	<0.010	0.008	0.50	0.005	--	--
28...	<0.010	0.011	2.3	0.006	--	--
01126447	MOOSUP POND NEAR MOOSUP (LAT 41 44 02N LONG 071 52 00W)					
MAY 1989						
11...	0.018	0.010	0.30	0.008	--	--
AUG						
04...	<0.010	0.004	0.50	0.009	0.900	<0.100
04...	<0.010	0.002	0.40	0.002	--	--
04...	<0.010	0.002	0.60	0.010	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
THAMES RIVER BASIN.--Continued							
01126924	BEACHDALE POND NEAR VOLUNTOWN, CT (LAT 41 34 44N LONG 071 51 42W)						
APR 1989							
26...	1500	--	55	6.00	10.5	10.2	0.005
SEP							
01...	1200	1.00	60	5.40	20.5	6.9	0.006
01...	1205	4.00	65	5.40	17.5	6.1	0.006
01...	1210	8.00	105	5.80	13.5	5.4	0.007
01126977	HOPEVILLE POND NEAR JEWETT CITY (LAT 41 36 34N LONG 071 56 17W)						
MAY 1989							
11...	1200	--	50	6.20	13.5	9.0	0.004
SEP							
01...	0930	1.00	75	6.50	22.5	7.9	0.005
01...	0935	8.00	75	6.20	21.0	6.5	0.004
01...	0940	16.0	90	6.20	20.5	4.6	0.005
01127345	GARDNER LAKE NEAR SALEM (LAT 41 30 25N LONG 072 13 22W)						
APR 1989							
14...	1545	--	60	6.80	9.0	9.0	0.002
AUG							
03...	1415	1.00	70	7.10	25.5	10.8	0.003
03...	1416	16.0	70	6.60	24.0	8.9	0.004
03...	1417	25.0	95	6.60	18.0	3.0	0.005
03...	1418	35.0	100	6.60	13.5	12.0	0.007
01127369	FITCHVILLE POND AT FITCHVILLE (LAT 41 33 45N LONG 072 09 25W)						
MAY 1989							
10...	1430	--	70	6.50	13.0	9.6	0.007
AUG							
04...	1200	1.00	120	7.10	26.5	10.3	0.013
04...	1201	6.00	130	6.60	21.5	8.4	0.008
04...	1202	13.0	135	6.50	20.0	3.7	0.659
01127708	AVERY POND NEAR NORWICH (LAT 41 29 38N LONG 071 58 48W)						
APR 1989							
26...	0945	--	120	7.00	12.0	10.4	0.008
SEP							
06...	1015	1.00	125	7.25	21.0	9.5	0.003
06...	1020	5.00	125	7.00	20.5	8.3	0.004
06...	1025	11.0	130	6.40	19.5	4.7	0.006
01127714	LAKE OF ISLES NEAR LEDYARD CENTER (LAT 41 29 22N LONG 071 56 58W)						
APR 1989							
26...	1100	--	40	6.60	12.5	10.2	0.005
SEP							
06...	1200	1.00	50	6.30	22.0	8.5	0.005
06...	1205	4.00	50	6.30	21.5	8.0	0.004
06...	1210	8.00	50	6.40	21.0	8.1	0.004
CONNECTICUT RIVER BASIN							
01187029	WEST HILL POND NEAR WINSTED, CT (LAT 41 52 30N LONG 073 02 30W)						
APR 1989							
21...	1230	--	45	6.80	8.5	10.0	0.002
AUG							
17...	1215	1.00	100	7.10	24.0	8.4	0.002
17...	1220	19.0	100	6.80	21.5	8.5	0.002
17...	1225	39.0	95	5.80	9.0	4.3	0.007
17...	1230	63.0	130	6.50	7.5	0.5	0.006

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
THAMES RIVER BASIN.--Continued						
01126924	BEACHDALE POND NEAR VOLUNTOWN, CT (LAT 41 34 44N LONG 071 51 42W)					
APR 1989						
26...	0.330	0.024	0.60	0.011	--	--
SEP						
01...	0.246	0.026	0.40	0.024	0.300	<0.100
01...	1.10	0.049	0.70	0.037	--	--
01...	0.969	0.066	0.60	0.032	--	--
01126977	HOPEVILLE POND NEAR JEWETT CITY (LAT 41 36 34N LONG 071 56 17W)					
MAY 1989						
11...	0.340	0.021	0.40	0.024	--	--
SEP						
01...	0.153	0.029	0.40	0.011	3.70	0.100
01...	0.157	0.036	0.60	0.016	--	--
01...	0.243	0.068	0.50	0.017	--	--
01127345	GARDNER LAKE NEAR SALEM (LAT 41 30 25N LONG 072 13 22W)					
APR 1989						
14...	<0.010	0.003	0.70	0.018	--	--
AUG						
03...	<0.010	0.009	0.60	0.006	3.40	0.200
03...	<0.010	0.020	0.50	0.006	--	--
03...	<0.010	0.312	0.80	0.008	--	--
03...	<0.010	0.310	2.4	0.028	--	--
01127369	FITCHVILLE POND AT FITCHVILLE (LAT 41 33 45N LONG 072 09 25W)					
MAY 1989						
10...	0.619	0.034	0.40	0.018	--	--
AUG						
04...	1.10	0.162	0.60	0.022	4.50	0.200
04...	0.907	0.053	0.70	0.026	--	--
04...	<0.010	<0.002	0.50	0.021	--	--
01127708	AVERY POND NEAR NORWICH (LAT 41 29 38N LONG 071 58 48W)					
APR 1989						
26...	0.132	0.015	0.60	0.024	--	--
SEP						
06...	<0.010	0.024	0.80	0.024	22.0	1.00
06...	<0.010	0.019	1.0	0.023	--	--
06...	<0.010	0.024	0.80	0.026	--	--
01127714	LAKE OF ISLES NEAR LEDYARD CENTER (LAT 41 29 22N LONG 071 56 58W)					
APR 1989						
26...	<0.010	0.002	0.30	0.016	--	--
SEP						
06...	<0.010	0.056	0.30	0.007	1.20	0.100
06...	0.014	0.044	0.20	0.005	--	--
06...	<0.010	0.045	0.70	0.006	--	--
CONNECTICUT RIVER BASIN.--Continued						
01187029	WEST HILL POND NEAR WINSTED, CT (LAT 41 52 30N LONG 073 02 30W)					
APR 1989						
21...	<0.010	0.008	0.30	<0.002	--	--
AUG						
17...	<0.010	0.002	0.40	0.001	0.900	<0.100
17...	<0.010	0.005	0.30	0.002	--	--
17...	0.021	0.039	0.50	0.006	--	--
17...	<0.010	0.235	1.1	0.057	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CaCO3)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
CONNECTICUT RIVER BASIN.--Continued											
01192879 BESECK LAKE NEAR MIDDLEFIELD (LAT 41 30 43N LONG 072 43 45W)											
APR 1989											
12...	1230	--	130	7.30	9.5	10.5	--	--	--	--	--
AUG											
01...	1030	1.00	130	8.05	25.0	9.2	--	--	--	--	--
01...	1031	13.0	130	6.60	23.5	3.5	--	--	--	--	--
01...	1032	19.0	200	7.05	15.0	0.1	--	--	--	--	--
01...	1033	23.0	220	7.10	13.0	0.1	--	--	--	--	--
011929139 CRYSTAL LAKE NEAR MIDDLETOWN (LAT 41 31 28N LONG 072 38 20W)											
APR 1989											
12...	1515	--	110	7.10	10.5	9.0	--	--	--	--	--
AUG											
21...	1045	1.00	140	8.30	25.5	9.1	--	--	--	--	--
21...	1050	10.0	150	6.80	23.5	7.8	--	--	--	--	--
21...	1055	18.0	170	6.40	20.0	0	--	--	--	--	--
21...	1100	22.0	410	7.50	16.0	0	--	--	--	--	--
01193450 SCHROEDER BROOK AT SOUTH RD AT S. MARLBOROUGH (LAT 41 35 33N LONG 072 25 50W)											
OCT 1988											
31...	1400	--	56	6.58	--	--	14	0.02	3.6	1.2	4.3
NOV											
01...	1430	--	52	6.54	--	--	13	0.04	3.3	1.1	3.7
02...	1015	--	55	5.85	--	--	13	0.08	3.4	1.2	3.8
03...	0800	--	56	6.05	--	--	13	0.04	3.4	1.2	4.2
JUL 1989											
26...	0700	--	43	6.69	--	--	11	0.03	2.9	0.90	4.0
SEP											
14...	1430	--	40	6.73	--	--	11	<0.01	2.9	0.90	3.9
14...	2230	--	40	6.45	--	--	12	0.03	3.2	0.97	3.2
15...	0630	--	51	6.52	--	--	13	0.03	3.5	1.1	4.6
15...	1330	--	51	6.65	--	--	14	0.01	3.5	1.2	4.6
01193465 DICKINSON CREEK NR MARLBOROUGH CT. (LAT 41 39 48N LONG 072 29 06W)											
OCT 1988											
31...	1300	--	49	6.73	--	--	13	0.03	3.2	1.1	3.2
NOV											
01...	1415	--	52	6.56	--	--	14	0.05	3.7	1.2	5.3
02...	1300	--	60	6.47	--	--	16	0.04	3.9	1.4	3.3
03...	0830	--	59	6.65	--	--	16	0.04	3.9	1.5	3.5
JUL 1989											
26...	0720	--	40	6.71	--	--	11	0.02	2.7	1.0	3.0
011937209 PICKEREL LAKE NEAR MOODUS (LAT 41 31 30N LONG 072 25 14W)											
APR 1989											
14...	1230	--	48	6.00	9.5	10.0	--	--	--	--	--
AUG											
02...	1230	1.00	55	6.70	26.0	2.3	--	--	--	--	--
02...	1231	6.00	55	6.90	24.5	2.5	--	--	--	--	--
02...	1232	8.00	60	5.80	23.5	23.0	--	--	--	--	--
01193898 LAKE HAYWARD NEAR COLCHESTER (LAT 41 31 07N LONG 072 19 40W)											
APR 1989											
14...	1400	--	52	6.80	9.5	8.5	--	--	--	--	--
AUG											
29...	0930	1.00	50	6.30	22.5	7.1	--	--	--	--	--
29...	0935	19.0	60	6.00	21.0	0.5	--	--	--	--	--
29...	0940	27.0	85	6.60	15.0	0	--	--	--	--	--
29...	0945	32.0	98	6.80	14.0	0	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SiO2)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
CONNECTICUT RIVER BASIN.--Continued											
01192879 BESECK LAKE NEAR MIDDLEFIELD (LAT 41 30 43N LONG 072 43 45W)											
APR 1989											
12...	--	--	--	--	--	--	--	--	--	--	0.003
AUG											
01...	--	--	--	--	--	--	--	--	--	--	0.006
01...	--	--	--	--	--	--	--	--	--	--	0.005
01...	--	--	--	--	--	--	--	--	--	--	0.010
01...	--	--	--	--	--	--	--	--	--	--	0.009
011929139 CRYSTAL LAKE NEAR MIDDLETOWN (LAT 41 31 28N LONG 072 38 20W)											
APR 1989											
12...	--	--	--	--	--	--	--	--	--	--	0.004
AUG											
21...	--	--	--	--	--	--	--	--	--	--	0.004
21...	--	--	--	--	--	--	--	--	--	--	0.005
21...	--	--	--	--	--	--	--	--	--	--	0.008
21...	--	--	--	--	--	--	--	--	--	--	0.010
01193450 SCHROEDER BROOK AT SOUTH RD AT S. MARLBOROUGH (LAT 41 35 33N LONG 072 25 50W)											
OCT 1988											
31...	38	0.5	1.2	5.5	12	7.1	0.06	<0.010	14	<0.010	--
NOV											
01...	35	0.5	1.7	5.5	8.7	5.3	0.08	<0.010	12	<0.010	--
02...	34	0.5	2.0	<0.5	9.8	7.4	0.11	<0.010	9.1	<0.010	--
03...	37	0.5	1.5	1	11	7.4	0.08	<0.010	10	0.020	--
JUL 1989											
26...	42	0.5	0.86	<0.5	6.3	4.4	0.07	<0.010	13	0.140	--
SEP											
14...	41	0.5	0.98	7.7	5.9	3.3	0.07	<0.010	14	0.090	--
14...	33	0.4	1.9	7.1	5.3	3.1	0.08	<0.010	11	0.190	--
15...	40	0.6	1.6	4.6	6.0	7.1	0.09	0.020	13	0.090	--
15...	39	0.6	1.4	5.5	5.9	6.7	0.08	<0.010	14	0.020	--
01193465 DICKINSON CREEK NR MARLBOROUGH CT. (LAT 41 39 48N LONG 072 29 06W)											
OCT 1988											
31...	33	0.4	1.5	9.6	6.7	3.4	0.07	<0.010	10	0.070	--
NOV											
01...	40	0.6	2.2	8.7	7.3	3.4	0.09	<0.010	10	0.180	--
02...	28	0.4	2.6	4.8	11	4.1	0.11	<0.010	9.7	0.440	--
03...	29	0.4	2.3	6.5	12	3.4	0.10	<0.010	11	0.410	--
JUL 1989											
26...	34	0.4	1.3	7.9	5.7	2.7	0.05	<0.010	9.8	0.250	--
011937209 PICKEREL LAKE NEAR MOODUS (LAT 41 31 30N LONG 072 25 14W)											
APR 1989											
14...	--	--	--	--	--	--	--	--	--	--	0.003
AUG											
02...	--	--	--	--	--	--	--	--	--	--	0.002
02...	--	--	--	--	--	--	--	--	--	--	0.003
02...	--	--	--	--	--	--	--	--	--	--	0.002
01193898 LAKE HAYWARD NEAR COLCHESTER (LAT 41 31 07N LONG 072 19 40W)											
APR 1989											
14...	--	--	--	--	--	--	--	--	--	--	0.002
AUG											
29...	--	--	--	--	--	--	--	--	--	--	0.002
29...	--	--	--	--	--	--	--	--	--	--	0.003
29...	--	--	--	--	--	--	--	--	--	--	0.003
29...	--	--	--	--	--	--	--	--	--	--	0.003

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
CONNECTICUT RIVER BASIN.--Continued											
01192879 BESECK LAKE NEAR MIDDLEFIELD (LAT 41 30 43N LONG 072 43 45W)											
APR 1989											
12...	<0.010	0.012	--	0.40	0.006	--	--	--	--	--	--
AUG											
01...	<0.010	0.008	--	<0.20	0.012	--	5.50	0.800	--	--	--
01...	<0.010	0.220	--	0.30	0.021	--	--	--	--	--	--
01...	<0.010	1.50	--	1.6	0.070	--	--	--	--	--	--
01...	<0.010	1.70	--	3.2	0.088	--	--	--	--	--	--
011929139 CRYSTAL LAKE NEAR MIDDLETOWN (LAT 41 31 28N LONG 072 38 20W)											
APR 1989											
12...	0.188	0.018	--	0.40	0.076	--	--	--	--	--	--
AUG											
21...	0.012	0.014	--	0.40	0.007	--	4.00	0.300	--	--	--
21...	0.134	0.018	--	0.30	0.019	--	--	--	--	--	--
21...	0.062	0.180	--	0.60	0.019	--	--	--	--	--	--
21...	0.017	3.90	--	4.8	0.009	--	--	--	--	--	--
01193450 SCHROEDER BROOK AT SOUTH RD AT S. MARLBOROUGH (LAT 41 35 33N LONG 072 25 50W)											
OCT 1988											
31...	--	--	0.009	--	--	<0.001	--	--	50	14	1
NOV											
01...	--	--	0.017	--	--	<0.001	--	--	90	38	6
02...	--	--	0.023	--	--	0.002	--	--	310	150	61
03...	--	--	0.018	--	--	<0.001	--	--	210	100	16
JUL 1989											
26...	--	--	0.011	--	--	0.003	--	--	70	78	7
SEP											
14...	--	--	0.031	--	--	<0.001	--	--	40	55	9
14...	--	--	0.027	--	--	0.003	--	--	90	110	12
15...	--	--	0.038	--	--	0.002	--	--	120	200	11
15...	--	--	0.020	--	--	<0.001	--	--	90	150	6
01193465 DICKINSON CREEK NR MARLBOROUGH CT. (LAT 41 39 48N LONG 072 29 06W)											
OCT 1988											
31...	--	--	0.007	--	--	0.002	--	--	40	24	3
NOV											
01...	--	--	0.028	--	--	<0.001	--	--	100	63	11
02...	--	--	0.020	--	--	0.020	--	--	220	58	22
03...	--	--	0.020	--	--	0.014	--	--	130	44	9
JUL 1989											
26...	--	--	0.007	--	--	0.030	--	--	60	56	6
011937209 PICKEREL LAKE NEAR MOODUS (LAT 41 31 30N LONG 072 25 14W)											
APR 1989											
14...	0.212	0.009	--	0.40	0.037	--	--	--	--	--	--
AUG											
02...	<0.010	0.006	--	<0.20	0.002	--	1.00	<0.100	--	--	--
02...	<0.010	0.110	--	0.20	0.005	--	--	--	--	--	--
02...	<0.010	0.470	--	0.70	0.010	--	--	--	--	--	--
01193898 LAKE HAYWARD NEAR COLCHESTER (LAT 41 31 07N LONG 072 19 40W)											
APR 1989											
14...	0.018	0.012	--	0.20	0.007	--	--	--	--	--	--
AUG											
29...	0.018	0.038	--	1.0	0.007	--	2.40	0.100	--	--	--
29...	<0.010	0.165	--	0.80	0.013	--	--	--	--	--	--
29...	<0.010	0.965	--	1.3	0.010	--	--	--	--	--	--
29...	<0.010	0.193	--	0.50	0.013	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
HOUSATONIC RIVER BASIN							
01198006	EAST TWIN LAKE NEAR SALISBURY, CT (LAT 42 01 30N LONG 073 23 03W)						
MAY 1989							
17...	1515	--	240	8.10	12.0	10.1	0.003
AUG							
24...	1250	1.00	180	8.40	23.5	9.5	0.002
24...	1340	19.0	190	8.40	22.0	9.7	0.002
24...	1345	42.0	200	7.00	7.5	0.2	0.004
24...	1350	73.0	220	6.90	6.5	0	0.003
01199018	RIGA LAKE NEAR SALISBURY, CT (LAT 42 01 19N LONG 073 28 52W)						
MAY 1989							
17...	1115	--	35	4.70	12.0	10.2	0.003
AUG							
23...	1130	1.00	20	4.50	22.0	8.3	0.002
23...	1135	13.0	20	4.40	21.5	8.3	0.002
23...	1140	26.0	20	4.35	21.0	7.9	0.002
011990308	WONONSKOPOMUC LAKE NEAR LAKEVILLE, CT (LAT 41 57 22N LONG 073 26 45W)						
MAY 1989							
17...	1300	--	275	8.10	10.5	10.3	0.007
AUG							
25...	1315	1.00	200	8.80	23.0	9.8	0.001
25...	1320	20.0	215	8.60	21.0	10.4	0.001
25...	1325	42.0	225	7.20	7.0	3.5	0.004
25...	1330	95.0	250	7.25	5.5	0	0.016
01202617	DOG POND NEAR GOSHEN, CT (LAT 41 48 54N LONG 073 14 25W)						
MAY 1989							
12...	1000	--	75	6.70	9.0	8.7	0.004
AUG							
09...	1000	1.00	130	9.15	22.0	9.8	0.001
09...	1001	6.00	130	9.15	22.0	9.2	<0.001
09...	1002	10.0	160	6.80	21.0	0.8	0.002
01205508	LAKE QUASSAPAUG NEAR MIDDLEBURY, CT (LAT 41 32 06N LONG 073 09 22W)						
APR 1989							
19...	1130	--	48	6.60	8.0	9.5	0.004
AUG							
10...	1130	1.00	65	8.90	25.0	10.4	0.003
10...	1131	13.0	65	8.80	23.5	10.0	0.003
10...	1132	39.0	65	5.80	8.5	0.2	0.021
10...	1133	60.0	80	6.15	7.5	0.1	0.005
01205608	LAKE WINCHESTER NEAR WINCHESTER, CT (LAT 41 54 31N LONG 073 09 06W)						
MAY 1989							
12...	1115	--	35	6.40	12.0	9.6	0.004
AUG							
09...	1230	1.00	45	6.80	22.5	9.4	<0.001
09...	1231	10.0	40	6.80	22.5	8.9	<0.001
09...	1232	15.0	40	6.60	22.0	8.5	<0.001
01205615	PARK POND NEAR WINCHESTER, CT (LAT 41 53 35N LONG 073 09 00W)						
MAY 1989							
12...	1230	--	70	6.90	12.5	9.6	0.003
AUG							
22...	1025	1.00	120	7.30	23.5	8.4	0.003
22...	1030	7.00	120	7.30	23.5	8.4	0.002
22...	1035	14.0	120	7.20	23.5	8.3	0.003

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
HOUSATONIC RIVER BASIN.--Continued						
01198006	EAST TWIN LAKE NEAR SALISBURY, CT (LAT 42 01 30N LONG 073 23 03W)					
MAY 1989						
17...	<0.010	0.007	0.50	0.012	--	--
AUG						
24...	<0.010	<0.002	0.30	0.007	1.30	<0.100
24...	<0.010	0.004	0.60	0.013	--	--
24...	<0.010	0.003	0.50	0.030	--	--
24...	<0.010	1.30	0.40	0.146	--	--
01199018	RIGA LAKE NEAR SALISBURY, CT (LAT 42 01 19N LONG 073 28 52W)					
MAY 1989						
17...	0.036	0.004	<0.20	0.003	--	--
AUG						
23...	<0.010	0.016	<0.20	0.003	0.100	<0.100
23...	<0.010	0.012	0.20	0.002	--	--
23...	<0.010	0.015	0.40	0.004	--	--
011990308	WONONSKOPMUC LAKE NEAR LAKEVILLE, CT (LAT 41 57 22N LONG 073 26 45W)					
MAY 1989						
17...	<0.010	0.003	0.30	0.007	--	--
AUG						
25...	<0.010	<0.002	0.20	0.006	1.10	<0.100
25...	<0.010	0.007	0.40	0.004	--	--
25...	<0.010	0.013	0.40	0.023	--	--
25...	0.021	1.50	1.6	0.323	--	--
01202617	DOG POND NEAR GOSHEN, CT (LAT 41 48 54N LONG 073 14 25W)					
MAY 1989						
12...	0.041	0.031	0.50	0.016	--	--
AUG						
09...	<0.010	0.026	0.70	0.008	0.500	<0.100
09...	<0.010	0.014	0.60	0.030	--	--
09...	<0.010	0.108	2.4	0.065	--	--
01205508	LAKE QUASSAUG NEAR MIDDLEBURY, CT (LAT 41 32 06N LONG 073 09 22W)					
APR 1989						
19...	0.062	0.012	0.50	0.010	--	--
AUG						
10...	<0.010	0.009	0.60	0.009	9.40	<0.200
10...	<0.010	0.009	0.50	0.010	--	--
10...	0.194	0.128	0.50	0.004	--	--
10...	<0.010	0.330	1.1	0.047	--	--
01205608	LAKE WINCHESTER NEAR WINCHESTER, CT (LAT 41 54 31N LONG 073 09 06W)					
MAY 1989						
12...	0.019	0.011	0.30	0.008	--	--
AUG						
09...	<0.010	0.008	0.40	0.001	2.50	<0.100
09...	<0.010	0.005	0.40	0.002	--	--
09...	0.015	0.016	0.70	0.001	--	--
01205615	PARK POND NEAR WINCHESTER, CT (LAT 41 53 35N LONG 073 09 00W)					
MAY 1989						
12...	0.071	0.011	0.40	0.007	--	--
AUG						
22...	<0.010	0.013	0.30	0.004	3.10	<0.100
22...	<0.010	0.011	0.30	0.002	--	--
22...	<0.010	0.013	0.30	0.004	--	--

GROUND-WATER LEVELS

FAIRFIELD COUNTY

413007073250501. Local number, BD 8.

LOCATION.--Lat 41°30'07", Long 73°25'05", Hydrologic Unit 01100005, 50 ft south and 10 ft 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, depth 53 ft, plastic casing to 50 ft, well point 50 to 53 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 255 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 0.40 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.33 ft below land-surface datum, April 26, 1983; lowest measured, 33.41 ft below land-surface datum, January 26, 1981.

EXTREMES FOR CURRENT YEAR.--Highest water level measured 27.60 ft below land-surface datum, May 25, 1989; lowest water level measured 33.00 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	33.00	DEC 27	31.49	FEB 24	31.45	APR 26	30.11	JUN 27	28.00	AUG 28	30.64
NOV 28	31.81	JAN 27	31.57	MAR 27	31.33	MAY 25	27.60	JUL 26	29.58	SEP 28	31.24

411256073153101. Local Number, FF 23.

LOCATION.--Lat 41°12'56", Long 73°15'31", Hydrologic Unit 01100006, about 100 ft south of Merritt Parkway and about 2000 ft 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, depth 42 ft, steel casing to 39 ft, screened 39 to 42 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.40 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft below land-surface datum, April 10, 1980; lowest measured, 8.79 ft below land-surface datum, September 25, 1967.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.03 ft below land-surface datum, May 25, 1989; lowest water level measured, 8.09 ft below land-surface datum, August 28, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	8.02	DEC 28	7.86	FEB 24	6.95	APR 26	7.60	JUN 28	7.36	AUG 28	8.09
NOV 28	7.20	JAN 27	7.94	MAR 27	7.26	MAY 25	5.03	JUL 26	7.55	SEP 26	6.73

GROUND-WATER LEVELS

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FAIRFIELD COUNTY --Continued

412429073165101. Local Number, NT 15.

LOCATION.--Lat 41°24'29", long 73°16'51", Hydrologic Unit 01100005, 0.65 mi southwest of State Route 34 on Mile Hill Road and 0.25 mi 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, depth 33 ft, plastic casing to 31 ft, well point 31 to 33 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 265 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.30 ft below land-surface datum, May 25, 1989; lowest measured, 11.14 ft below land-surface datum, October 26, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.30 ft below land-surface datum, May 25, 1989; lowest water level measured, 11.14 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	11.14	JAN 25	6.84	APR 26	3.09	JUL 26	4.64	SEP 26	5.85
NOV 28	7.69	FEB 24	6.41	MAY 25	.30		27	4.64	
DEC 28	6.68	MAR 27	5.78	JUN 27	2.54	AUG 28	5.28		

HARTFORD COUNTY

414615072581601. Local Number, BU 2.

LOCATION.--Lat 41°46'15", long 72°58'16", Hydrologic Unit 01080207, 95 ft 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, depth 37 ft, stone-lined.

INSTRUMENTATION.--ADR water-level recorder- 60 minute punch, May 2, 1986 to September 23, 1987.

Prior to May 1986 and since February 29, 1988, measured monthly with chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 880 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of 8-inch PVC casing 8.84 ft below original land-surface datum, in pit under manhole cover.

REMARKS.--Digital recorder installed May 2, 1986; removed September 23, 1987. Measurements discontinued due to construction of mall parking area from September 23, 1987 to February 29, 1988.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.70 ft below land-surface datum, August 19, 1955; lowest measured, 37.41 ft below land-surface datum, December 22, 1948.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 16.20 ft below land-surface datum, May 25, 1989; lowest water level measured, 34.16 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	34.16	DEC 28	25.32	FEB 24	21.86	APR 26	18.75	JUN 27	16.27	AUG 28	19.82
NOV 28	33.86	JAN 27	22.11	MAR 27	21.68	MAY 25	16.20	JUL 26	18.32	SEP 28	21.59

GROUND-WATER LEVELS

HARTFORD COUNTY --Continued

415450072332201. Local Number, EW 133.

LOCATION.--Lat 41°54'50", long 72°33'22", Hydrologic Unit 01080205, about 170 ft east of Church St. and about 75 ft south of Mill St. (State Route 191), 15 ft north of Broad Brook, East Windsor; Broad Brook quadrangle.

Owner: Otto Fresse

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 22.6 ft, PVC casing, screened 21.6 to 22.6.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of recorder shelter floor 4.07 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.40 ft below land-surface datum, May 25, 1989; lowest measured, 6.66 ft below land-surface datum, September 29, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.40 ft below land-surface datum, May 25, 1989; lowest water level measured, 5.80 ft below land-surface datum, August 26, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.66	DEC 27	5.32	FEB 24	5.01	APR 26	4.93	JUN 28	4.70	AUG 28	5.80
NOV 28	4.61	JAN 26	5.36	MAR 29	5.13	MAY 25	1.40	JUL 26	5.14	SEP 26	5.33

415548072311301. Local Number, EW 134.

LOCATION.--Lat 41°55'48", long 72°31'13", Hydrologic Unit 01080205, about 400 ft east of East St. and about 0.75 mi. north of Depot St, about 30 ft north of burned tobacco shed; East Windsor; Broad Brook quadrangle.

Owner: Myers Nursery

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 102.1 ft, screened 99.1 to 102.1 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 185 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.05 ft below land-surface datum, July 26, 1989; lowest measured, 51.60 ft below land-surface datum, October 28, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 49.05 ft below land-surface datum, July 26, 1989; lowest water level measured, 51.55 ft below land-surface datum, November 28, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	51.52	DEC 27	51.30	FEB 24	51.31	APR 26	50.96	JUN 28	49.15	AUG 28	49.36
NOV 28	51.55	JAN 26	51.28	MAR 29	51.34	MAY 25	50.37	JUL 26	49.05	SEP 26	49.74

GROUND-WATER LEVELS

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HARTFORD COUNTY --continued

415649072494801. Local Number, GR 328.

LOCATION.--Lat 41°56'49", long 72°49'48", Hydrologic Unit 01080207; 1150 ft east of junction of Day St and Simsbury Rd on field lane to field, well is 320 ft east of fence line and 60 ft north of wood line and 10 ft 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, depth 22 ft, PVC plastic casing to 20 ft, slotted 20 to 22 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources personnel. ADR water-level recorder with 60-minute punch installed October 27, 1988.

DATUM.--Elevation of land-surface datum is 440 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 0.69 ft 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 measured, 4.49 ft below land-surface datum, June 1, 1984; lowest measured, 17.44 ft below land-surface datum, November 4, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.21 ft below land-surface datum, May 12, 1989; lowest water level measured, 17.44 ft below land-surface datum, November 4, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	17.39	13.03	12.93	13.08	12.93	11.58	10.42	7.63	9.62	---	---
2	---	17.40	12.99	12.89	13.08	12.93	11.11	10.20	7.81	9.86	---	---
3	---	17.41	12.96	12.85	13.09	12.93	10.76	9.46	7.91	10.08	---	---
4	---	17.44	12.96	12.84	13.09	12.93	10.54	9.04	7.97	10.31	---	---
5	---	17.41	12.96	12.84	13.11	12.88	10.38	8.88	8.26	10.53	---	---
6	16.64	17.38	12.97	12.84	13.11	12.88	10.03	6.88	8.43	10.65	---	---
7	---	17.34	12.97	12.84	13.11	12.88	9.56	6.57	8.61	10.73	---	---
8	---	17.32	12.97	12.80	13.11	12.89	9.29	6.58	8.74	10.85	---	---
9	---	17.29	12.98	12.80	13.11	12.89	9.25	6.88	8.52	11.01	---	---
10	---	17.24	12.98	12.80	13.11	12.88	9.25	7.01	6.46	11.12	---	---
11	---	17.17	12.98	12.82	13.11	12.86	9.27	5.42	6.43	11.28	---	---
12	---	17.14	12.99	12.80	13.11	12.85	9.32	5.21	6.53	11.31	---	---
13	---	17.08	13.00	12.80	13.11	12.85	9.32	5.30	6.82	11.34	---	---
14	16.88	17.01	12.99	12.81	13.13	12.85	9.32	5.66	7.01	11.40	---	---
15	---	16.96	12.98	12.82	13.13	12.84	9.32	5.96	7.17	11.47	---	---
16	---	16.91	12.93	12.82	13.13	12.84	9.32	6.21	6.62	---	---	---
17	---	16.78	12.92	12.82	13.16	12.88	9.27	6.12	6.60	---	---	---
18	---	16.73	12.92	12.82	13.16	12.88	9.15	6.13	6.73	---	---	---
19	---	16.67	12.92	12.82	13.14	12.88	9.13	6.41	7.01	---	---	---
20	---	16.56	12.92	12.82	13.14	12.90	9.13	6.66	7.39	---	---	---
21	---	14.01	12.92	12.82	13.11	12.91	9.15	6.93	7.70	---	---	---
22	---	13.37	12.92	12.87	13.09	12.91	9.19	7.01	7.92	---	---	---
23	---	13.23	12.97	12.88	13.07	12.82	---	7.39	8.24	---	---	---
24	---	13.15	12.95	12.89	13.04	12.81	---	6.21	8.40	---	---	---
25	---	13.17	12.95	12.89	13.00	12.77	---	5.93	8.40	---	---	---
26	---	13.17	12.95	12.89	12.94	12.74	9.90	5.97	8.51	---	---	---
27	17.18	13.18	12.97	12.89	12.93	12.69	10.01	6.19	8.74	---	---	---
28	17.29	13.19	12.93	12.89	12.93	12.55	10.14	6.45	8.89	---	---	---
29	17.35	13.19	12.93	12.90	---	12.45	10.31	6.80	9.15	---	---	13.78
30	17.37	13.10	12.95	12.90	---	12.31	10.42	7.09	9.38	---	---	13.78
31	17.38	---	12.94	13.08	---	12.10	---	7.32	---	---	---	---
MIN	---	13.10	12.92	12.80	12.93	12.10	---	5.21	6.43	---	---	---

HARTFORD COUNTY --Continued

415647072495901. Local Number, GR 329.

LOCATION.--Lat 41°56'47", long 72°49'59", Hydrologic Unit 01080207; 1150 ft east of junction of Day St and Simsbury Rd on field lane to field, well is 10 ft east of stone wall, 150 ft 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, depth 22 ft, PVC plastic casing to 20 ft, slotted 20 to 22 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed October 27, 1988.

DATUM.--Elevation of land-surface datum is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 1.20 ft above land-surface datum.

REMARKS.--Water levels collected by Connecticut Department of Environmental Protection, Natural Resources Center. Minimum water levels < 3.06 ft below land surface datum May 6 through May 20; May 24 through May 29; and June 9 through June 19, 1989.

PERIOD OF RECORD.--May 1982 to current.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.92 ft below land-surface datum, June 1, 1984 lowest measured, 13.13 ft below land-surface datum, October 28, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, < 3.06 ft below land-surface datum, May 7, 1989; lowest water level measured, 13.13 ft below land-surface datum, October 28, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	7.04	6.95	4.03	5.03	3.66	4.57	---	---
2	---	---	---	---	7.11	7.02	4.05	3.76	3.78	4.64	---	---
3	---	---	---	---	7.12	7.07	4.22	3.71	3.75	4.74	---	---
4	---	12.91	---	---	7.12	7.12	4.25	3.76	3.81	4.82	---	---
5	---	12.85	---	---	7.20	7.07	4.25	3.98	4.05	4.86	---	---
6	12.33	12.76	---	---	7.21	7.07	3.59	---	4.17	4.86	---	---
7	---	11.70	---	---	7.24	7.15	3.58	---	4.20	4.86	---	---
8	---	9.44	---	---	7.32	7.23	3.59	---	4.15	4.98	---	---
9	---	8.83	---	---	7.36	7.31	3.59	---	---	5.06	---	---
10	---	8.63	---	---	7.50	7.31	3.79	---	---	5.14	---	---
11	---	8.61	---	---	7.54	7.31	4.02	---	---	5.12	---	---
12	---	8.68	---	---	7.55	7.31	4.15	---	---	5.30	---	---
13	---	8.21	---	---	7.68	7.31	4.25	---	---	---	---	---
14	12.58	7.64	---	---	7.31	7.36	4.31	---	---	---	---	---
15	---	7.38	---	---	4.20	7.34	4.41	---	---	---	---	---
16	---	7.20	---	---	5.40	7.34	3.71	---	---	---	---	---
17	---	6.99	---	---	6.91	7.39	3.65	---	---	---	---	---
18	---	6.85	---	---	7.14	7.38	3.65	---	---	---	---	---
19	---	6.72	---	---	7.22	7.38	3.83	---	---	---	---	---
20	---	---	---	---	7.28	7.43	4.05	---	3.23	---	---	---
21	---	---	---	---	3.22	7.31	4.19	3.22	3.44	---	---	---
22	---	---	---	---	4.90	---	4.26	3.31	3.67	---	---	---
23	---	---	---	---	5.64	7.23	4.38	3.53	3.82	---	---	---
24	---	---	---	---	6.12	6.98	4.53	---	3.64	---	---	---
25	---	4.17	---	---	6.36	5.35	4.59	---	3.66	---	---	---
26	---	---	---	---	6.52	5.06	4.81	---	3.81	---	---	---
27	---	---	---	---	6.58	5.06	4.84	---	4.04	---	---	---
28	13.11	---	---	---	6.87	5.19	4.90	---	4.18	---	---	5.37
29	---	---	---	---	---	5.35	5.01	---	4.31	---	---	5.39
30	---	---	---	---	---	4.99	5.02	3.25	4.42	---	---	5.52
31	---	---	---	6.99	---	4.32	---	3.42	---	---	---	---
MIN	---	---	---	---	3.22	---	3.58	---	---	---	---	---

HARTFORD COUNTY --continued

415643072502201. Local Number, GR 330.

LOCATION.--Lat 41°56'43", long 72°50'22", Hydrologic Unit 01080207; 1,000 ft 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 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, depth 22 ft, PVC plastic casing to 20 ft, slotted 20 to 22 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed October 27, 1988.

DATUM.--Elevation of land-surface datum is 309 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 2.0 ft 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 measured, 1.18 ft below land-surface datum, May 11, 1989; lowest measured, 5.47 ft below land-surface datum, April 10, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.18 ft below land-surface datum, May 11, 1989; lowest water level measured, 4.88 ft below land-surface datum, August 12, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.58	---	---	3.48	---	2.45	3.14	3.09	3.33	3.35	3.35
2	---	---	---	---	3.48	---	2.45	1.93	2.99	3.36	3.34	3.33
3	---	---	---	---	3.45	---	2.45	2.23	2.99	3.39	3.31	3.31
4	---	3.06	---	---	3.44	---	2.45	2.55	3.05	3.40	3.30	3.30
5	---	2.59	---	---	3.50	---	2.45	2.73	3.14	3.41	3.28	3.29
6	4.32	2.59	---	---	3.50	---	2.43	1.33	3.18	3.41	3.27	3.28
7	---	---	---	---	3.51	---	---	2.02	3.13	3.41	3.27	3.27
8	---	---	---	---	3.53	---	---	2.39	3.08	3.41	3.25	3.27
9	---	---	---	---	3.55	---	---	2.60	1.59	3.42	3.23	3.27
10	---	---	---	---	3.62	---	---	2.23	1.46	3.39	3.21	3.26
11	---	---	---	---	3.63	---	---	1.18	2.21	3.38	3.21	3.23
12	---	---	---	---	3.63	---	---	1.88	2.56	3.46	3.85	3.21
13	---	---	---	---	3.63	---	---	2.19	2.88	3.45	4.46	---
14	4.27	---	---	---	3.56	---	---	2.41	2.90	3.45	4.24	---
15	---	---	---	---	3.42	---	---	2.60	2.54	3.44	3.95	---
16	---	---	---	---	3.41	---	---	2.32	2.27	3.44	3.79	---
17	---	---	---	---	3.48	---	---	2.29	2.43	3.44	3.66	---
18	---	---	---	---	3.52	---	---	2.46	2.65	3.51	3.58	---
19	---	---	---	---	3.56	---	---	2.70	2.91	3.47	3.53	---
20	---	---	---	---	3.58	---	---	2.92	2.99	3.46	3.52	---
21	---	---	---	---	---	---	---	2.98	3.06	3.50	3.50	---
22	---	---	---	---	---	---	---	2.99	3.10	3.56	3.46	---
23	---	---	---	---	---	---	---	3.00	2.89	3.51	3.44	---
24	---	---	---	---	---	---	---	1.79	2.86	3.46	3.43	---
25	---	3.18	---	---	---	2.76	---	1.98	2.96	3.44	3.38	---
26	---	3.16	---	---	---	2.76	3.19	2.42	3.03	3.42	3.36	---
27	---	3.20	---	---	---	2.76	3.19	2.65	3.14	3.38	3.35	---
28	3.79	---	---	---	---	2.82	3.19	2.75	3.19	3.38	3.35	3.22
29	3.80	---	---	---	---	2.83	3.19	2.94	3.20	3.39	3.35	---
30	3.84	---	---	3.52	---	2.64	3.14	2.99	3.28	3.39	3.36	---
31	3.88	---	---	3.51	---	2.46	---	3.04	---	3.37	3.36	---
MIN	---	---	---	---	---	---	---	1.18	1.46	3.33	3.21	---

HARTFORD COUNTY --Continued

415653072501701. Local Number, GR 331.

LOCATION.--Lat 41°56'53", long 72°50'17", Hydrologic Unit 01080207; along north side of field road 30 ft west of Simsbury Road, and 900 ft 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, depth 31.5 ft, PVC plastic casing to 29.5 ft, slotted casing 29.5 to 31.5 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources Center personnel.
ADR water-level recorder with 60-minute punch installed October 27, 1988.

DATUM.--Elevation of land-surface datum is 327 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 2.90 ft 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 measured, 4.41 ft below land-surface datum, April 22, 1983; lowest measured, 13.30 ft below land-surface datum, September 29, 1983.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.86 ft below land-surface datum, May 13, 1989; lowest water level measured, 12.81 ft below land-surface datum, October 14, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.88	8.37	9.57	9.87	9.77	8.65	8.78	---	---	10.36	10.33
2	---	10.53	8.37	9.57	9.89	9.87	8.40	8.56	---	---	10.39	10.36
3	---	10.31	8.38	9.57	9.91	9.89	8.27	8.39	---	---	10.42	10.36
4	---	10.18	8.38	9.57	9.91	9.92	8.25	8.22	---	---	10.45	10.37
5	---	10.06	8.60	9.62	9.89	9.94	8.19	8.12	---	---	10.47	10.37
6	12.63	9.82	8.71	9.65	9.88	9.94	8.02	7.32	---	---	10.50	10.38
7	---	9.74	8.75	9.69	9.88	9.99	7.85	6.71	---	---	10.53	10.39
8	---	---	8.87	9.73	9.90	10.03	7.70	6.66	---	---	10.56	10.39
9	---	---	8.97	9.76	9.91	10.04	7.68	6.66	---	---	10.65	10.39
10	---	---	9.01	9.85	9.94	10.05	7.68	6.72	---	---	10.70	10.40
11	---	---	9.12	9.85	9.94	10.06	7.70	6.44	---	---	10.71	10.40
12	---	---	9.18	9.85	9.98	10.06	7.75	5.90	---	9.83	10.25	10.40
13	---	---	9.25	9.85	10.04	10.08	7.88	5.86	---	9.86	9.86	10.40
14	12.81	---	9.29	9.89	10.06	10.08	7.94	---	---	9.89	9.57	10.40
15	---	---	9.35	9.87	10.06	10.08	8.08	---	---	9.94	9.38	10.40
16	---	---	9.41	9.86	10.04	10.08	8.11	---	---	10.01	9.29	10.40
17	---	---	9.46	9.85	9.99	10.08	7.98	---	---	10.04	9.29	10.40
18	---	---	9.51	9.85	9.96	10.07	7.90	---	---	10.04	9.29	10.40
19	---	---	9.53	9.86	9.96	10.07	7.89	---	---	10.06	9.34	10.40
20	---	---	9.57	9.85	9.96	10.07	7.89	---	---	10.08	9.42	10.38
21	---	---	9.61	9.85	9.88	10.05	7.91	---	---	10.11	9.50	10.27
22	---	---	9.67	9.88	9.83	10.05	7.95	---	---	10.11	9.60	10.19
23	---	---	9.69	9.88	9.76	9.94	8.10	---	---	10.11	9.67	10.14
24	---	---	9.69	9.90	9.72	9.89	8.18	---	---	10.11	9.73	10.14
25	---	8.30	9.69	9.92	9.71	9.72	8.30	---	---	10.13	9.86	10.14
26	---	8.23	9.68	9.92	9.71	9.57	8.51	---	---	10.16	9.92	10.07
27	11.38	8.30	9.63	9.91	9.71	9.46	8.52	---	---	10.17	10.02	10.07
28	11.34	8.36	9.60	9.91	9.75	9.33	8.59	---	---	10.19	10.07	9.98
29	11.24	8.36	9.60	9.91	---	9.26	8.69	---	---	10.21	10.16	9.92
30	11.15	8.36	9.60	9.87	---	9.09	8.74	---	---	10.27	10.20	9.92
31	11.06	---	9.57	9.87	---	8.91	---	---	---	10.31	10.25	---
MIN	---	---	8.37	9.57	9.71	8.91	7.68	---	---	---	9.29	9.92

GROUND-WATER LEVELS

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HARTFORD COUNTY --Continued

413535072253701. Local Number, MB 32.

LOCATION.--Lat 41°35'35", long 72°25'37", Hydrologic Unit 01080205, in southwest corner of field about 25 ft east of 4H Camp road at sharp turn to the west, which is about 1000 ft southeast of South Road; Marlborough; Moodus quadrangle.

Owner: Hartford County 4H.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 16.5 ft, screened 14.6 to 16.5 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources Center personnel.

DATUM.--Elevation of land-surface datum is 255 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.44 ft below land-surface datum, April 10, 1987; lowest measured, 10.50 ft below land-surface datum, October 17, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.44 ft below land-surface datum, April 12, 1989; lowest water level measured, 8.78 ft below land-surface datum, October 6 and 14, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	8.78	NOV 18	6.02	FEB 09	3.90	APR 26	2.15	AUG 15	1.78
14	8.78	DEC 02	2.49	MAR 08	3.19	MAY 19	1.47	30	2.95
27	8.68	30	2.85	23	2.48	JUN 28	3.06	SEP 27	3.97
NOV 04	8.74	JAN 18	3.55	APR 12	1.44	JUL 31	4.18		

414910072372101. Local Number, SW 64.

LOCATION.--Lat 41°49'10", long 72°37'21", Hydrologic Unit 01080205, 15 ft 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, depth 18 ft, brick-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top edge of hole in flagstone cover, 0.50 ft above land-surface datum.

REMARKS.--Access obstructed September 26, 1988.

PERIOD OF RECORD.--November 1934 to September 1939 and October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.12 ft below land-surface datum, April 26, 1983; lowest measured, 15.22 ft below land-surface datum, January 26, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.55 ft below land-surface datum, June 25, 1989; lowest water level measured, 12.29 ft below land-surface datum, March 29, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	OBSTRUCTION	JAN 26	12.15	APR 26	11.01	JUL 26	9.95	SEP 26	OBSTRUCTION
NOV 28	12.03	FEB 24	12.19	MAY 26	9.23	28	9.95		
DEC 28	11.85	MAR 29	12.29	JUN 25	8.55	AUG 28	9.39		

LITCHFIELD COUNTY

420125073193001. Local Number, NOC 7.

LOCATION.--Lat 42°01'25", long 73°19'30", Hydrologic Unit 01100005, 300 ft south and 75 ft 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, depth 12 ft, stone-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 675 ft above National Geodetic Vertical Datum of 1929, 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 measured, 5.40 ft below land-surface datum, November 23 and December 8, 1984; lowest measured, 11.18 ft below land-surface datum, September 5, 1961.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.94 ft below land-surface datum, May 17, 1989; lowest water level measured, 9.85 ft below land-surface datum, October 20, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08	9.78	DEC 08	9.15	JAN 28	9.40	MAR 31	9.16	JUN 01	9.15	JUL 31	9.62
15	9.83	20	9.33	FEB 13	9.47	APR 13	9.00	15	9.22	AUG 15	9.20
20	9.85	27	9.21	24	9.18	26	9.10	27	9.25	28	9.44
26	9.75	JAN 10	9.33	26	9.33	28	9.20	JUL 01	9.38	31	9.55
NOV 28	8.97	24	9.41	MAR 17	9.53	MAY 17	8.94	16	9.40	SEP 15	9.72
29	9.00	27	9.35	27	9.18	25	9.05	26	9.53	28	9.20

413202073122401. Local Number, WY 1.

LOCATION.--Lat 41°32'02", long 73°12'24", Hydrologic Unit 01100005, about 75 ft east of Main Street and 21 ft north of Irene Thulin House and about 500 ft 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, depth 31 ft (formerly 34.2 ft).

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel. ADR water-level recorder with 60-minute punch installed May 7, 1986 and removed December 28, 1987.

Analog recorder installed Oct. 5, 1965; removed May 18, 1970.

DATUM.--Elevation of land-surface datum is 270 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of plywood cover, 2.53 ft above land-surface datum.

PERIOD OF RECORD.--October 1913 to December 1916, April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.70 ft below land-surface datum, April 26, 1983; lowest measured, 33.50 ft below land-surface datum, October 10, 1914.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 19.49 ft below land-surface datum, May 25, 1989; lowest water level measured, 29.42 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	29.42	DEC 28	24.69	FEB 24	25.50	APR 26	22.12	JUN 27	20.67	AUG 28	23.13
NOV 28	26.21	JAN 25	25.94	MAR 27	25.81	MAY 25	19.49	JUL 26	21.89	SEP 26	24.91

GROUND-WATER LEVELS

239

MIDDLESEX COUNTY

412809072420701. Local Number, D 116.

LOCATION.--Lat 41°28'09", long 72°42'07", Hydrologic Unit 01080205, in schoolyard of Brewster School about 100 ft east of Tuttle St. and about 2400 ft south of State Route 68, Durham; Durham quadrangle.

Owner: Town of Durham, Board of Education, Brewster School.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 23.8 ft, PVC casing, screened 22.3 to 23.8 ft.

INSTRUMENTATION.--Measurements made biweekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 241 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 1.27 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.02 ft above land-surface datum, June 10, 1989; lowest water level measured, 9.29 ft below land-surface datum, September 11, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, +0.02 ft above land-surface datum, June 10, 1989; lowest water level measured, 8.87 feet below land-surface datum, October 10, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	8.87	DEC 10	.75	FEB 10	.61	APR 12	.22	JUN 10	+0.02	AUG 10	4.48
25	8.54	26	.33	25	.15	25	.59	25	.57	25	2.13
NOV 15	2.06	JAN 10	.68	MAR 10	.65	MAY 10	.34	JUL 10	2.52	SEP 10	4.11
25	.44	25	.66	31	.11	25	.16	25	1.83	25	1.80

412825072410501. Local Number, D 117.

LOCATION.--Lat 41°28'25", long 72°41'05", Hydrologic Unit 01080205, about 400 ft west of Maple Ave and about 300 ft south of Allyn Brook, Durham; Durham quadrangle.

Owner: Town of Durham, Fair Grounds Association.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 22.5 ft, PVC casing, screened 21 to 22.5 ft.

INSTRUMENTATION.--Measurements made biweekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 162 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of steel casing, 1.35 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.97 ft below land-surface datum April 10, 1987. lowest measured, 14.48 ft below land-surface datum, August 26, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.08 ft below land-surface datum, June 10, 1989; lowest water level measured, 12.99 ft below land-surface datum, October 10, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	12.99	DEC 10	10.42	FEB 10	11.02	APR 25	10.22	JUN 25	8.66	AUG 25	10.41
25	12.53	26	10.40	25	9.74	MAY 10	9.49	JUL 10	10.91	SEP 10	11.43
NOV 15	10.99	JAN 10	10.87	MAR 10	10.69	25	8.29	25	10.89	25	11.11
25	9.51	25	11.06	APR 12	9.40	JUN 10	8.08	AUG 10	12.07		

MIDDLESEX COUNTY --Continued

412824072411902. Local Number, D 119.

LOCATION.--Lat 41°28'24", long 72°41'19", Hydrologic Unit 01080205, about 1600 ft west of Maple Ave. and about 400 ft south of Allyn Brook at northeast corner of parking area at end of gravel road, Durham; Durham quadrangle.

Owner: Town of Durham.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 23 ft, PVC casing, screened 20 to 23 ft.

INSTRUMENTATION.--Measurements made biweekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 157 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of steel protective casing, 0.42 ft above land-surface datum.

REMARKS.--Shallow, southern well of pair.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.02 ft below land-surface datum, March 10, 1988; lowest water level measured, 3.56 ft below land-surface datum, August 26, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.26 ft below land-surface datum, June 10, 1989; lowest water level measured, 2.45 ft below land-surface datum, August 10, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	1.78	DEC 10	.36	FEB 10	.84	APR 12	.29	JUN 10	.26	AUG 10	2.45
25	1.28	26	.36	25	.33	25	.94	25	.43	25	1.52
NOV 15	.48	JAN 10	.97	MAR 10	.93	MAY 10	.40	JUL 10	1.39	SEP 10	2.32
25	.35	25	.96	31	.37	25	.31	25	.80	25	.61

412824072411901. Local Number, D 120.

LOCATION.--Lat 41°28'24", long 72°41'19", Hydrologic Unit 01080205, about 1600 ft west of Maple Ave and West St. and about 400 ft south of Allyn Brook at northeast corner of parking area at end of gravel road, Durham; Durham quadrangle.

Owner: Town of Durham.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 50 ft, PVC casing, screened 47 to 50 ft.

INSTRUMENTATION.--Measurements made biweekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 157 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of steel protective casing, 0.42 ft above land-surface datum.

REMARKS.--Deep, northern well of pair.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.21 ft below land-surface datum, February 26, 1986; lowest measured, 3.94 ft below land-surface datum, July 26, 1987 and July 10, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.58 ft below land-surface datum, May 25, 1989; lowest water level measured, 3.31 ft below land-surface datum, August 10, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	3.17	DEC 10	1.96	FEB 10	2.57	APR 12	1.78	JUN 10	.90	AUG 10	3.31
25	3.03	26	1.96	25	1.98	25	2.17	25	1.86	25	2.42
NOV 15	2.36	JAN 10	1.28	MAR 10	2.57	MAY 10	1.77	JUL 10	2.67	SEP 10	2.84
25	1.87	25	2.51	31	1.79	25	.58	25	2.47	25	2.65

GROUND-WATER LEVELS

241

MIDDLESEX COUNTY --Continued

413033072432001. Local Number, MF 1.

LOCATION.--Lat 41°30'33", long 72°43'20", Hydrologic Unit 01080205, about 100 ft east of West St. and about 600 ft 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, depth 22 ft, stone-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 260 ft above National Geodetic Vertical Datum of 1929, 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 measured, 2.48 ft below land-surface datum, May 25, 1989; lowest measured, 16.92 ft below land-surface datum, November 24, 1964.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 2.48 ft below land-surface datum, May 25, 1989; lowest water level measured, 13.09 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	13.09	DEC 27	8.09	FEB 24	4.83	APR 26	5.94	JUN 27	6.26	AUG 28	8.30
NOV 28	2.68	JAN 25	7.60	MAR 27	4.08	MAY 25	2.48	JUL 26	9.07	SEP 26	10.24

413254072335501. Local Number, MT 261.

LOCATION.--Lat 41°32'54", long 72°33'55", Hydrologic Unit 01080205, about 200 ft east of River Road and 200 ft 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, depth 27.6 ft, stone-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 145 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of stone cover at land-surface datum.

PERIOD OF RECORD.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.16 ft below land-surface datum, April 26, 1983, lowest measured, dry (less than 27.6 ft), November 1, 1957, December 2, 1957, November 25, 1964, and October 31, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 18.65 ft below land-surface datum, May 25, 1989; lowest water level measured, 25.08 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	25.08	DEC 28	19.88	FEB 24	20.18	APR 26	18.92	JUN 27	19.28	AUG 28	20.53
NOV 28	21.19	JAN 25	20.63	MAR 27	19.72	MAY 25	18.65	JUL 26	20.52	SEP 26	21.27

GROUND-WATER LEVELS

NEW HAVEN COUNTY

411723072344701. Local Number, MA 314.

LOCATION.--Lat 41°17'23", long 72°34'47", Hydrologic Unit 01100004, 10 ft north of fence and 20 ft west of willows in long grass between service area parking and fence line on south side of east bound service area of I-95, Madison; Clinton quadrangle.

Owner: Connecticut Department of Transportation.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in, depth 26.7 ft, PVC casing to 24.7 ft, screened 24.7 to 26.7 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 45 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 0.55 ft above land-surface datum.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.56 ft below land-surface datum, June 14, 1982; lowest water level measured, 18.84 ft below land-surface datum, November 30, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 14.09 ft below land-surface datum, May 25, 1989; lowest water level measured, 18.65 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	18.65	DEC 27	16.38	FEB 24	16.88	APR 26	15.14	JUN 27	14.72	AUG 28	15.73
NOV 28	16.94	JAN 25	16.84	MAR 27	16.58	MAY 25	14.09	JUL 26	16.07	SEP 26	16.68

412307072515201. Local Number, NHV 201.

LOCATION.--Lat 41°23'07", long 72°51'52", Hydrologic Unit 01100004, 3 ft south of curb in southwest corner of parking area for recreation building, 35 ft east of 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, depth 32 ft, plastic casing to 27 ft, screened 27 ft to 32 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 35 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of plastic casing, 0.7 ft above land-surface datum.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.56 ft below land-surface datum, June 28, 1982; lowest water level measured, 18.71 ft below land-surface datum, November 5, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 14.07 ft below land-surface datum, May 25, 1989; lowest water level measured, 18.08 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	18.08	DEC 28	16.75	FEB 24	16.86	APR 26	15.65	JUN 28	14.21	AUG 28	15.29
NOV 28	16.83	JAN 25	17.03	MAR 27	16.55	MAY 25	14.07	JUL 29	14.91	SEP 26	15.98

GROUND-WATER LEVELS

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NEW HAVEN COUNTY --Continued

412550072510701. Local Number, NHV 202.

LOCATION.--Lat 41°25'50", long 72°51'07", Hydrologic Unit 01100004, about 50 ft east of east-bound lane of Merritt Parkway, 3.2 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, depth 60.4 ft, plastic casing to 60 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 55 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of plastic casing, 2.7 ft above land-surface datum.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.07 ft below land-surface datum, April 25, 1983; lowest water level measured, dry (less than 60.4 ft) on September 28, October 29, November 25, and December 29, 1981; January 27, 1982; October 29, November 27, December 30, 1985; January 28, July 28, August 28, September 26, October 29, and November 25, 1986; June 28, July 27, August 26, and September 27, 1988, October 26, November 28, and December 28, 1988; January 25, February 25 and March 27, 1989.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 45.79 ft below land-surface datum, June 28, 1989; lowest water level measured, dry (less than 60.4 ft) on October 26, November 28, and December 28, 1988; January 25, February 24, and March 27, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	DRY	DEC 28	DRY	FEB 24	DRY	APR 26	58.88	JUN 28	45.79	AUG 28	46.45
NOV 28	DRY	JAN 25	DRY	MAR 27	DRY	MAY 25	52.61	JUL 26	47.08	SEP 26	47.28

413134073021701. Local Number, WB 93.

LOCATION.--Lat 41°31'34", long 73°02'17", Hydrologic Unit 01100005, 10 ft 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, depth 33 ft, stone-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 320 ft above National Geodetic Vertical Datum of 1929, 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 measured, 22.82 ft below land-surface datum, June 4, 1984; lowest water level measured, 29.68 ft below land-surface datum, September 27, 1962.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 24.67 ft below land-surface datum, May 25, 1989; lowest water level measured, 27.92 ft below land-surface datum, September 28, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	27.85	DEC 27	27.20	FEB 24	27.70	APR 26	26.36	JUN 27	26.80	AUG 28	27.04
NOV 28	25.93	JAN 27	27.61	MAR 27	27.56	MAY 25	24.67	JUL 26	27.56	SEP 28	27.92

GROUND-WATER LEVELS

NEW HAVEN COUNTY --Continued

413245072584201. Local Number, WB 198.

LOCATION.--Lat 41°32'45", long 72°58'42", Hydrologic Unit 01100005, 10 ft 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, depth 31 ft, stone-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 540 ft above National Geodetic Vertical Datum of 1929, 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 measured, 5.49 ft below land-surface datum, January 10, 1946; lowest water level measured, 21.76 ft below land-surface datum, October 26, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.00 ft below land-surface datum, May 25, 1989; lowest water level measured, 21.76 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	21.76	DEC 27	16.88	FEB 24	17.50	APR 26	13.19	JUN 27	11.30	AUG 28	12.81
NOV 28	18.82	JAN 27	17.21	MAR 27	17.46	MAY 25	9.00	JUL 26	13.21	SEP 28	14.45

NEW LONDON COUNTY

413457072252201. Local Number, CO 335.

LOCATION.--Lat 41°34'57", long 72°25'22", Hydrologic Unit 01080205, about 80 ft east of Blackledge River and about 600 ft south of River Road, Colchester; Moodus quadrangle.

Owner: Connecticut Department of Environmental Protection.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 29 ft, PVC casing, screened 27 to 29 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by State Natural Resources Center personnel.

DATUM.--Elevation of land-surface datum is 145 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of steel protective casing 0.1 ft above land-surface datum.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.99 ft below land-surface datum, April 10, 1987; lowest water level measured, 8.52 ft below land-surface datum, September 24, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 6.24 ft below land-surface datum, August 15, 1989; lowest water level measured, 8.25 ft below land-surface datum, October 6, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	8.25	NOV 18	7.09	FEB 09	7.49	APR 26	6.92	AUG 15	6.24
14	8.13	DEC 02	6.79	MAR 08	7.29	MAY 19	6.37	30	7.02
27	7.98	30	7.17	23	7.10	JUN 28	6.58	SEP 27	7.29
NOV 04	7.19	JAN 18	7.39	APR 12	6.72	JUL 31	7.55		

GROUND-WATER LEVELS

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NEW LONDON --continued

412013072030601. Local Number, GT 19.

LOCATION.--Lat 41°20'13", long 72°03'06", Hydrologic Unit 01100003, 150 ft east and 48 ft 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, depth 18 ft, stone-lined.

INSTRUMENTATION.--Measurements made weekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 22 ft above National Geodetic Vertical Datum of 1929, 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 measured, 7.35 ft below land-surface datum, June 7, 1982; lowest water level measured, 17.97 ft below land-surface datum, October 6, 1963.

EXTREMES FOR CURRANT YEAR.--Highest water level measured, 12.66 ft below land-surface datum, April 19, 1989; lowest water level measured, 16.97 ft below land-surface datum, October 4, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	16.97	DEC 13	14.55	FEB 26	14.40	MAY 01	13.70	JUL 01	14.10	SEP 03	14.86
13	16.73	25	15.05	MAR 05	14.54	07	13.58	10	14.90	11	15.38
20	16.87	JAN 01	15.08	13	14.87	14	12.98	16	15.22	17	15.51
25	16.42	10	15.32	20	15.12	21	13.66	24	14.73	27	15.00
NOV 04	14.70	16	15.26	26	14.03	26	14.10	30	15.12		
09	15.60	25	15.34	APR 02	13.68	JUN 05	14.74	AUG 06	15.49		
16	15.85	31	15.32	11	13.07	13	13.25	13	14.56		
25	13.94	FEB 10	15.44	19	12.66	18	13.30	20	14.19		
DEC 03	13.55	20	15.35	25	13.32	25	13.62	27	14.72		

412824072173301. Local Number, SM 7.

LOCATION.--Lat 41°28'24", long 72°17'33", Hydrologic Unit 01080205, 100 ft east of State Route 11 northbound lane, 0.9 mi 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, depth 17 ft, plastic casing to 12 ft, screened 12 to 17 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 238 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.88 ft below land-surface datum, April 26, 1983; lowest water level measured, 13.76 ft below land-surface datum, October 30, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.79 ft below land-surface datum, May 25, 1989; lowest water level measured, 13.34 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	13.34	DEC 27	9.33	FEB 24	8.77	APR 26	7.83	JUN 27	7.93	AUG 28	9.60
NOV 28	10.98	JAN 25	9.40	MAR 27	8.32	MAY 25	7.79	JUL 26	9.75	SEP 26	11.24

TOLLAND COUNTY

414548072114501. Local Number, MS 19.

LOCATION.--Lat 41°45'48", long 72°11'45", Hydrologic Unit 01100002, 400 ft east of State Route 195 and 225 ft 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, depth 22 ft, concrete tile.

INSTRUMENTATION.--Measurements made weekly with a chalked tape by State Natural Resources Center personnel.

DATUM.--Elevation of land-surface datum is 260 ft above National Geodetic Vertical Datum of 1929, 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 measured, 7.85 ft below land-surface datum, April 26, 1983; lowest measured, 15.72 ft below land-surface datum, January 26, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.49 ft below land-surface datum, June 21, 1989; lowest water level measured, 14.02 ft below land-surface datum, November 2, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	13.66	DEC 08	12.05	FEB 16	12.43	APR 07	11.24	JUN 15	9.67	AUG 14	10.08
18	13.99	14	11.99	24	12.02	21	10.31	21	9.49	28	10.40
27	14.01	28	12.05	MAR 02	11.94	27	10.27	JUL 05	10.04	SEP 08	10.85
NOV 02	14.02	JAN 10	12.20	15	11.95	MAY 10	9.93	14	10.28	19	11.24
15	13.78	20	12.19	22	11.98	23	9.74	28	10.42	25	11.37
28	12.47	31	12.28	31	11.66	31	9.83	AUG 03	10.58		

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 from end of road, 40 ft south side of road. Owner: University of Connecticut.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table, diameter 2 in, depth 22 ft, PVC casing to 20 ft, slotted 20 to 22 ft.

INSTRUMENTATION.--Measurements made weekly with a chalked tape by State Natural Resources Center personnel.

DATUM.--Elevation of land-surface datum is 654 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--June 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.13 ft below land-surface datum, March 20, 1986; lowest measured, 9.78 ft below land-surface datum, September 29, 1983.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.22 ft below land-surface datum, April 7, 1989; lowest water level measured, 8.25 ft below land-surface datum, October 18, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	8.09	DEC 08	2.03	FEB 16	4.11	APR 07	.22	JUN 15	.78	AUG 14	.34
18	8.25	14	2.86	24	2.28	21	1.31	21	1.55	28	3.44
27	8.13	28	2.85	MAR 02	2.69	27	2.45	JUL 05	3.84	SEP 08	4.56
NOV 02	7.93	JAN 10	3.82	15	3.43	MAY 10	1.54	14	4.20	19	5.89
15	4.17	20	3.55	22	2.08	23	2.69	28	3.52	25	4.02
28	.49	31	3.50	31	.62	31	2.25	AUG 03	4.47		

GROUND-WATER LEVELS

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WINDHAM COUNTY

414054071552001. Local Number, PL 1.

LOCATION.--Lat 41°40'54", long 71°55'20", Hydrologic Unit 01100001, 195 ft south of Pleasant Street, 1300 ft 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, depth 34 ft, brick-lined.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by U.S.G.S. personnel.

Analog recorder installed April 12, 1985 and removed September 2, 1985.

DATUM.--Elevation of land-surface datum is 180 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of stone curb at land-surface datum.

PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.19 ft below land-surface datum, April 26, 1983; lowest water level measured, 33.21 ft below land-surface datum, February 10, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 27.87 ft below land-surface datum, June 28, 1989; lowest water level measured, 31.12 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	31.12	DEC 27	30.10	FEB 24	30.49	APR 26	29.04	JUN 28	27.87	AUG 28	29.32
NOV 28	30.98	JAN 26	30.38	MAR 29	30.11	MAY 25	28.39	JUL 26	28.60	SEP 26	29.82

GROUND-WATER LEVELS

WINDHAM COUNTY --Continued

414243072040501. Local Number, SC 19.

LOCATION.-- Lat 41°42'43", long 72°04'05", Hydrologic unit 01100002, hilltop site at Pudding Hill Wildlife Management area, off CT Rt.97 along south side of field road about 100 ft east of Rt.97; Scotland; Scotland quadrangle. Owner: State of Connecticut.

AQUIFER.-- Till of Pleistocene age.

WELL CHARACTERISTICS.-- Bored, unused, water table well, diameter 2 in, depth 21 ft, PVC casing to 21 ft, slotted 18 to 21 ft.

INSTRUMENTATION.-- Measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed October 28, 1988.

DATUM.-- Elevation of land-surface datum is 498 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC coupling 1.28 ft above land-surface datum.

PERIOD OF RECORD.-- January 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 0.95 ft below land-surface datum, June 10, 1989; lowest water level measured, 11.55 ft below land-surface datum, September 16, 1987.

EXTREMES FOR CURRENT YEAR.-- Highest water level measured, 0.95 ft below land-surface datum, June 10, 1989; lowest water level measured, 9.09 ft below land-surface datum, October 23, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.62	---	---	---	4.85	2.32	2.58	3.71	4.35	---	6.41
2	---	7.70	---	---	---	4.98	2.77	1.50	3.28	4.52	---	6.41
3	---	7.17	---	---	---	5.02	2.66	1.55	3.21	4.71	6.55	6.61
4	---	6.81	---	---	---	5.09	2.65	2.01	3.35	4.96	7.02	6.80
5	---	6.56	---	---	---	5.01	2.65	2.35	3.47	4.92	7.17	6.98
6	---	6.35	---	---	---	4.99	1.99	1.26	3.68	3.98	7.34	7.14
7	---	6.23	---	---	---	4.99	1.99	1.46	2.52	3.98	7.44	7.29
8	---	6.18	---	---	5.27	5.20	1.94	1.94	2.15	4.28	7.58	7.44
9	---	6.17	---	---	5.95	5.33	2.11	2.23	1.03	4.51	7.75	7.55
10	---	6.04	---	---	6.21	5.42	2.33	1.51	.95	4.72	7.86	7.70
11	---	6.04	---	---	6.21	5.62	2.63	1.03	1.40	4.91	6.41	7.85
12	---	6.22	---	---	6.21	5.63	2.92	1.05	1.93	5.13	6.40	8.02
13	---	5.83	---	---	6.21	5.71	3.13	1.44	1.82	5.31	6.41	8.11
14	---	5.21	---	---	6.21	5.71	3.33	1.79	1.82	5.44	6.41	8.23
15	---	5.12	---	---	6.21	5.63	2.78	2.07	1.64	5.40	6.41	7.78
16	---	5.09	---	---	6.21	5.63	2.16	2.33	1.22	5.41	6.41	7.68
17	---	4.53	---	---	6.21	5.38	2.25	2.33	1.21	3.60	6.41	6.76
18	---	4.31	---	---	6.21	4.59	2.60	2.64	1.36	3.60	6.41	6.72
19	---	4.31	---	---	6.21	4.30	2.85	3.04	1.81	3.81	6.41	6.41
20	---	2.46	---	---	6.25	4.33	3.02	3.25	2.23	4.15	6.41	---
21	---	---	---	---	5.61	3.70	3.38	3.44	2.70	4.25	6.41	---
22	---	---	---	---	4.78	3.86	3.60	3.63	2.76	4.27	6.41	---
23	9.09	---	---	---	4.64	3.93	---	3.85	2.52	4.47	6.41	---
24	---	---	---	---	4.62	3.27	---	3.13	2.44	4.68	6.40	---
25	---	---	---	---	4.62	2.72	---	2.47	2.64	5.00	6.40	---
26	---	---	---	---	4.66	2.74	---	2.56	3.08	5.16	6.41	---
27	---	---	---	---	4.66	2.94	3.88	2.56	3.42	5.38	6.43	---
28	8.69	---	---	---	4.84	3.00	3.98	2.56	3.69	5.18	6.63	---
29	8.73	2.06	---	---	---	3.05	4.10	3.07	3.95	5.18	6.77	---
30	8.80	---	---	---	---	2.59	2.58	3.42	4.14	---	6.40	---
31	8.81	---	---	---	---	2.32	---	3.63	---	---	6.40	---
MIN	---	---	---	---	---	2.32	---	1.03	.95	---	---	---

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414237072034401. Local Number, SC 20.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

414240072032201. Local Number. SC 21.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, +0.27 ft above land-surface datum, March 26, 1989;
lowest water level measured, 1.02 ft below land-surface datum, September 12, 1989.

[illegible]

GROUND-WATER LEVELS

251

WINDHAM COUNTY --continued

414240072033201. Local Number, SC 22.

LOCATION.-- Lat 41°42'40", long 72°03'32", Hydrologic unit 01100002, hillside site at Pudding Hill Wildlife Management area, off CT Rt. 97 along north side of field road about 3300 ft east of Rt.97; Scotland; Scotland quadrangle. Owner: State of Connecticut.

AQUIFER.-- Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.-- Bored, unused, water-table well, diameter 2 in, depth 26 ft, PVC casing to 24.5 ft, slotted 24.5 to 26 ft.

INSTRUMENTATION.--Measurements made monthly with a chalked tape by Natural Resources Center personnel.

ADR water-level recorder with 60-minute punch installed November 8, 1988.

DATUM.-- Elevation of land-surface datum is 315 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC coupling, 1.95 ft above land-surface datum.

ERIOD OF RECORD.-- October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 6.80 ft below land-surface datum, April 9, 1987; lowest water level measured, 14.43 ft below land-surface datum, November 13, 1987.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.78 ft below land-surface datum, May 15, 1989; lowest water level measured, 13.99 ft below land-surface datum, October 23, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.60	11.92	12.25	---	11.51	10.76	10.41	10.51	12.30	---
2	---	---	11.52	11.92	12.26	---	11.43	10.76	10.51	10.60	---	---
3	---	---	11.48	11.92	12.26	---	11.36	10.74	10.60	10.72	---	---
4	---	---	11.48	11.92	12.27	---	11.30	10.67	10.63	10.83	12.42	---
5	---	---	11.48	11.94	12.28	---	11.27	10.58	10.71	10.89	---	---
6	---	---	11.47	11.97	12.28	---	11.23	10.49	10.76	10.93	---	---
7	---	---	11.47	12.00	12.28	---	11.13	10.38	10.84	10.97	---	---
8	---	13.67	11.47	12.02	12.08	---	11.07	10.34	10.86	11.02	---	---
9	---	13.66	11.47	12.03	12.10	---	10.91	10.30	10.87	11.11	---	---
10	---	13.63	11.47	12.08	---	---	10.75	10.30	10.22	11.16	---	---
11	---	13.60	11.47	12.09	---	---	10.63	10.07	9.64	11.23	---	---
12	---	13.58	11.48	12.11	---	---	10.57	9.44	9.56	11.27	---	---
13	---	13.54	11.48	12.11	---	---	10.56	8.95	9.56	11.31	---	---
14	---	13.51	11.48	12.14	---	---	10.56	8.79	9.56	11.35	---	---
15	---	13.48	11.50	12.14	---	---	10.56	8.78	9.61	11.45	---	---
16	---	13.44	11.54	12.14	---	---	10.56	8.78	9.59	11.51	---	---
17	---	13.40	11.55	12.14	---	---	10.54	8.78	9.42	11.57	---	---
18	---	13.36	11.57	12.14	---	---	10.51	8.96	9.39	11.63	---	---
19	---	13.30	11.62	12.14	---	---	10.50	9.20	9.39	11.66	---	---
20	---	13.21	11.68	12.14	---	---	10.50	9.38	9.44	11.69	---	---
21	---	12.91	11.69	12.14	---	---	10.48	9.51	9.58	11.71	---	---
22	---	12.44	11.73	12.18	---	12.02	10.48	9.67	9.70	11.79	---	---
23	13.99	12.08	11.76	12.19	---	12.04	10.48	9.81	9.82	11.85	---	---
24	---	11.89	11.77	12.19	---	12.04	10.48	9.90	9.90	11.91	---	---
25	---	11.76	11.78	12.21	---	12.04	10.48	10.00	9.94	11.98	---	---
26	---	11.69	11.83	12.24	---	12.00	10.50	10.01	10.03	12.02	---	---
27	---	11.60	11.88	12.24	---	11.89	10.58	10.06	10.11	12.07	---	---
28	---	11.56	11.86	12.25	---	11.73	10.61	10.14	10.21	12.11	---	---
29	---	11.73	11.90	12.25	---	11.70	10.69	10.21	10.32	12.16	---	---
30	---	11.70	11.91	12.24	---	11.59	10.72	10.30	10.41	12.21	---	---
31	---	---	11.91	12.24	---	11.55	---	10.35	---	12.25	---	---
MIN	---	---	11.47	11.92	---	---	10.48	8.78	9.39	10.51	---	---

WATER RESOURCES DATA - CONNECTICUT, 1989

GROUND-WATER QUALITY RECORDS

REMARK CODES.-- The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the accepted range (non-ideal colony count)

<u>GEOLOGIC UNIT CODES</u>	<u>AQUIFER</u>
112DFSF	Stratified Drift
112TILL	Till
231EBRL	East Berlin Formation
231HLYK	Holyoke Basalt
231HMPD	Hampden Basalt
231NHVN	New Haven Formation
231PRLD	Portland Formation
231SDMN	Sedimentary Bedrock
231SLMD	Shuttle Meadow Formation
300CBCL	Carbonate Crystalline Bedrock
300NCBC	Paleozoic Non-Carbonate Crystalline Bedrock
400NCBC	Precambrian Non-Carbonate Crystalline Bedrock

QUALITY OF GROUND WATER

The following water-quality data were collected as part of a study of the effects of agricultural, residential, industrial and commercial land-use practices on the quality of ground water in shallow sand-and-gravel aquifers that underlie these areas. Data on the occurrence and distribution of the major inorganic chemical constituents, trace elements, volatile organic compounds, pesticides, and other organic chemical constituents of ground water were statistically compared to ascertain relations between land use and ground-water quality.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	STATION NUMBER	GEO- LOGIC UNIT	COUNTY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
FAIRFIELD COUNTY									
NEWTOWN									
NT 99	412320073165201	112DFS	001	16.18	26.50	88-11-09	237	6.50	--
NT 101	412453073170201	112DFS	001	7.87	16.40	88-11-14	407	6.60	16.5
NT 101	412453073170201	112DFS	001	7.55	16.40	88-12-01	396	6.65	15.0
NT 103	412308073164301	112DFS	001	5.72	21.00	88-11-09	328	6.90	12.0
HARTFORD COUNTY									
AVON									
A 304	414905072491301	112DFS	003	8.90	16.20	88-11-18	347	5.55	12.0
FARMINGTON									
F 327	414207072514801	112DFS	003	6.78	16.40	88-10-25	53	6.40	16.0
F 331	414436072514401	112DFS	003	20.28	25.90	88-10-25	289	6.85	12.5
F 332	414157072520801	112DFS	003	37.61	46.20	88-11-23	390	6.80	--
F 333	414208072510601	112DFS	003	43.55	55.60	88-11-08	71	9.20	12.5
GRANBY									
GR 336	415747072475901	112DFS	003	13.82	21.00	88-12-02	108	5.70	11.5
GR 337	415722072475701	112DFS	003	22.19	26.20	88-11-07	92	5.50	13.0
MANCHESTER									
M 163	414740072301801	112DFS	003	12.68	15.00	88-12-02	2400	6.75	12.5
M 164	414814072301901	112DFS	003	3.36	15.05	88-10-26	208	6.10	--
M 166	414709072330601	112DFS	003	3.13	15.30	88-10-26	414	7.80	13.0
M 171	414528072305101	112DFS	003	21.94	36.00	88-12-01	188	7.40	10.5
SIMSBURY									
SI 448	415351072500501	112DFS	003	21.60	25.80	88-10-31	61	6.30	9.0
SI 450	415234072480301	112DFS	003	15.30	21.10	88-10-31	204	6.25	11.5
LITCHFIELD COUNTY									
WOODBURY									
WY 44	413128073121901	112DFS	005	12.63	16.40	88-11-14	177	5.90	14.0
WY 53	413130073122201	112DFS	005	7.74	20.50	88-11-14	195	5.90	13.0
WY 56	413300073125901	112DFS	005	4.63	16.00	88-11-21	151	6.25	11.5
WY 60	413232073124001	112DFS	005	9.58	25.80	88-11-21	205	5.85	11.0
WY 61	413053073141801	112DFS	005	4.11	11.20	88-11-15	193	7.30	--
NEW HAVEN COUNTY									
SOUTHURY									
SB 38	412916073130001	112DFS	009	12.15	25.30	88-11-15	699	6.90	12.5
SB 38	412916073130001	112DFS	009	11.29	25.30	88-12-01	746	6.90	12.5
TOLLAND COUNTY									
VERNON									
V 89	415134072292601	112DFS	013	4.33	20.65	88-12-02	213	6.50	12.5
V 92	415155072284601	112DFS	013	12.57	25.60	88-11-07	392	6.55	12.0
V 95	414936072300201	112DFS	013	9.17	20.70	88-10-27	384	7.70	14.0
V 95	414936072300201	112DFS	013	8.50	20.70	88-11-17	386	7.70	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

[illegible]

[illegible]

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)	METHYL- CHLORO- RIDE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	XYLENE TOTAL WATER WHOLE TOT REC (UG/L)	PER- THANE TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDT, TOTAL (UG/L)
FAIRFIELD COUNTY										
NEWTOWN--Continued										
NT 99	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
NT 101	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
NT 101	--	--	--	--	--	--	--	--	--	--
NT 103	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
HARTFORD COUNTY										
AVON--Continued										
A 304	--	<5.0	<5.0	--	--	--	--	--	--	--
FARMINGTON--Continued										
F 327	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
F 331	--	<5.0	<5.0	--	--	--	--	--	--	--
F 332	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
F 333	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
GRANBY--Continued										
GR 336	--	--	--	--	--	--	--	--	--	--
GR 337	--	--	--	--	--	--	--	--	--	--
MANCHESTER--Continued										
M 163	--	--	--	--	--	--	--	--	--	--
M 164	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
M 166	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
M 171	--	--	--	--	--	--	--	--	--	--
SIMSBURY--Continued										
SI 448	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
SI 450	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
LITCHFIELD COUNTY										
WOODBURY--Continued										
WY 44	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
WY 53	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
WY 56	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
WY 60	<0.20	<0.20	0.30	<0.20	<0.20	<0.2	--	--	--	--
WY 61	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
NEW HAVEN COUNTY										
SOUTHBRURY--Continued										
SB 38	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
SB 38	--	--	--	--	--	--	--	--	--	--
TOLLAND COUNTY										
VERNON--Continued										
V 89	--	--	--	--	--	--	--	--	--	--
V 92	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010
V 95	--	<5.0	<5.0	--	--	--	--	--	--	--
V 95	--	--	--	--	--	--	<0.1	<0.010	<0.010	<0.010

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	ENDRIN, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
FAIRFIELD COUNTY									
NEWTOWN--Continued									
NT 99	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
NT 101	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
NT 101	--	--	--	--	--	--	--	--	--
NT 103	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
HARTFORD COUNTY									
AVON--Continued									
A 304	--	--	--	--	--	--	--	--	--
FARMINGTON--Continued									
F 327	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
F 331	--	--	--	--	--	--	--	--	--
F 332	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
F 333	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
GRANBY--Continued									
GR 336	--	--	--	--	--	--	--	--	--
GR 337	--	--	--	<0.01	--	--	--	--	--
MANCHESTER--Continued									
M 163	--	--	--	--	--	--	--	--	--
M 164	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
M 166	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
M 171	--	--	--	--	--	--	--	--	--
SIMSBURY--Continued									
SI 448	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
SI 450	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
LITCHFIELD COUNTY									
WOODBURY--Continued									
WY 44	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
WY 53	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
WY 56	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
WY 60	--	--	--	--	--	--	--	--	--
WY 61	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
NEW HAVEN COUNTY									
SOUTHBRURY--Continued									
SB 38	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
SB 38	--	--	--	--	--	--	--	--	--
TOLLAND COUNTY									
VERNON--Continued									
V 89	--	--	--	--	--	--	--	--	--
V 92	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10
V 95	--	--	--	--	--	--	--	--	--
V 95	<0.010	<0.010	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	2, 4-DP TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FAIRFIELD COUNTY									
NEWTOWN--Continued									
NT 99	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
NT 101	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
NT 101	--	--	--	--	--	--	--	--	--
NT 103	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
HARTFORD COUNTY									
AVON--Continued									
A 304	--	--	--	--	--	--	--	--	--
FARMINGTON--Continued									
F 327	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
F 331	--	--	--	--	--	--	--	--	--
F 332	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
F 333	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
GRANBY--Continued									
GR 336	--	--	--	--	--	--	--	--	--
GR 337	<0.01	--	--	--	--	--	--	<0.01	<0.01
MANCHESTER--Continued									
M 163	--	--	--	--	--	--	--	--	--
M 164	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	0.02	<0.01
M 166	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	0.02	<0.01
M 171	--	--	--	--	--	--	--	--	--
SIMSBURY--Continued									
SI 448	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
SI 450	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
LITCHFIELD COUNTY									
WOODBURY--Continued									
WY 44	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
WY 53	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
WY 56	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
WY 60	--	--	--	--	--	--	--	--	--
WY 61	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	0.06	<0.01
NEW HAVEN COUNTY									
SOUTHBURY--Continued									
SB 38	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
SB 38	--	--	--	--	--	--	--	--	--
TOLLAND COUNTY									
VERNON--Continued									
V 89	--	--	--	--	--	--	--	--	--
V 92	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01
V 95	--	--	--	--	--	--	--	--	--
V 95	<0.01	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	ETHION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PCB, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	D1- SYSTON TOTAL (UG/L)	PHORATE OTAL (UG/L)	DEF TOTAL (UG/L)
FAIRFIELD COUNTY									
NEWTOWN--Continued									
NT 99	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
NT 101	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
NT 101	--	--	--	--	--	--	--	--	--
NT 103	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
HARTFORD COUNTY									
AVON--Continued									
A 304	--	--	--	--	--	--	--	--	--
FARMINGTON--Continued									
F 327	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
F 331	--	--	--	--	--	--	--	--	--
F 332	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
F 333	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
GRANBY--Continued									
GR 336	--	--	--	--	--	--	--	--	--
GR 337	--	--	--	--	--	--	--	--	--
MANCHESTER--Continued									
M 163	--	--	--	--	--	--	--	--	--
M 164	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
M 166	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
M 171	--	--	--	--	--	--	--	--	--
SIMSBURY--Continued									
SI 448	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
SI 450	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
LITCHFIELD COUNTY									
WOODBURY--Continued									
WY 44	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
WY 53	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
WY 56	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
WY 60	--	--	--	--	--	--	--	--	--
WY 61	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
NEW HAVEN COUNTY									
SOUTHBURY--Continued									
SB 38	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
SB 38	--	--	--	--	--	--	--	--	--
TOLLAND COUNTY									
VERNON--Continued									
V 89	--	--	--	--	--	--	--	--	--
V 92	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
V 95	--	--	--	--	--	--	--	--	--
V 95	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

The following data pertains to a study of pesticides in Connecticut ground water.

QUALITY OF DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	STATION	NUMBER	GEO- LOGIC UNIT	COUNTY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
FAIRFIELD COUNTY										
DANBURY										
DY 91	412446073311901	112TILL	001		1.05	6.92	89-08-07	240	6.50	17.0
RIDGFIELD										
R 66	412129073322201	112TILL	001		5.92	9.35	89-08-07	210	7.10	14.0
SHELTON										
SH 44	411930073090301	112TILL	001		13.54	13.55	89-08-08	365	5.65	13.5
SH 45	411930073090302	300NCBC	001		6.42	28.41	89-08-08	372	5.54	12.0
SH 46	411952073090801	112TILL	001		8.80	10.41	89-08-09	79	6.10	13.5
SH 47	411952073090802	300NCBC	001		5.98	23.54	89-08-09	77	5.49	10.0
STAMFORD										
STM 42	410336073332701	112TILL	001		2.10	11.50	89-08-23	308	6.70	14.5
HARTFORD COUNTY										
AVON										
A 306	414637072493501	112DFS	003		7.13	21.00	89-06-23	183	6.80	9.5
A 306	414637072493501	112DFS	003		7.64	21.00	89-08-25	180	6.54	11.0
CANTON										
CA 137	414914072530401	112DFS	003		3.73	25.54	89-07-28	130	6.30	9.5
CA 138	414914072530402	112DFS	003		4.22	12.21	89-07-27	126	5.69	10.0
ENFIELD										
EF 119	420041072304101	112TILL	003		6.71	9.00	89-07-19	460	6.40	12.0
EF 120	420123072311201	112DFS	003		3.85	60.02	89-07-20	315	8.20	10.0
EF 121	420123072311202	112DFS	003		5.01	35.23	89-07-20	278	6.10	10.0
EF 122	420123072311203	112DFS	003		5.15	15.36	89-07-20	323	7.20	10.5
EF 123	420041072304102	231PRLD	003		5.68	23.70	89-07-19	473	5.93	8.5
FARMINGTON										
F 329	414324072495601	112DFS	003		29.74	38.50	89-06-23	538	7.10	11.0
F 329	414324072495601	112DFS	003		31.33	38.50	89-08-25	580	7.00	9.5
F 334	414324072502701	112DFS	003		4.18	63.35	89-06-30	126	8.40	9.5
F 335	414324072502702	112DFS	003		3.79	28.49	89-06-30	180	6.15	7.5
F 336	414324072502703	112DFS	003		3.79	12.28	89-06-30	260	5.80	7.5
F 337	414232072530901	112DFS	003		5.17	13.06	89-08-18	176	6.40	12.5
F 338	414232072530601	112DFS	003		4.95	12.73	89-08-17	77	6.00	12.0
GRANBY										
GR 332	415819072481001	112DFS	003		4.33	9.01	89-07-05	123	6.22	8.5
GR 333	415819072481002	112DFS	003		4.50	38.87	89-07-05	136	6.30	6.0
MANCHESTER										
M 165	414637072314401	112DFS	003		22.67	35.20	89-06-27	326	7.80	9.5
M 174	414447072311201	112DFS	003		2.07	12.53	89-08-18	190	6.70	11.5
M 175	414454072311401	112DFS	003		1.19	10.38	89-08-18	157	6.50	11.5
NEW BRITAIN										
NB 212	414206072454601	112DFS	003		1.25	10.75	89-07-07	355	7.50	10.5

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	2,4-D, TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FAIRFIELD COUNTY										
DANBURY--Continued										
DY 91	3.3	2.60	<0.010	0.010	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
RIDGEFIELD--Continued										
R 66	3.1	3.70	<0.010	<0.010	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
SHELTON--Continued										
SH 44	29	13.0	<0.010	0.010	0.16	--	--	--	--	--
SH 45	31	13.0	<0.010	0.010	0.18	--	--	--	--	--
SH 46	5.6	0.700	<0.010	<0.010	0.02	--	--	--	--	--
SH 47	5.3	0.900	0.010	0.020	0.02	--	--	--	--	--
STAMFORD--Continued										
STM 42	25	1.10	0.080	<0.010	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
HARTFORD COUNTY										
AVON--Continued										
A 306	12	0.800	<0.010	0.040	0.06	--	--	--	--	--
A 306	11	0.800	<0.010	0.020	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
CANTON--Continued										
CA 137	3.7	2.60	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CA 138	5.0	<0.100	0.140	<0.010	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
ENFIELD--Continued										
EF 119	29	25.0	0.010	0.040	0.32	<0.01	<0.01	<0.01	<0.01	<0.01
EF 120	17	<0.100	0.020	0.100	0.03	--	--	--	--	--
EF 121	26	7.50	<0.010	0.010	0.09	--	--	--	--	--
EF 122	12	11.0	<0.010	<0.010	0.15	--	--	--	--	--
EF 123	28	24.0	<0.010	0.020	0.32	<0.01	<0.01	<0.01	<0.01	<0.01
FARMINGTON--Continued										
F 329	25	5.10	0.020	0.050	0.16	--	--	--	--	--
F 329	25	4.00	0.010	0.040	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
F 334	1.1	<0.100	0.021	0.380	0.01	--	--	--	--	--
F 335	11	4.50	<0.010	0.050	0.07	--	--	--	--	--
F 336	20	14.0	<0.010	0.041	0.23	--	--	--	--	--
F 337	2.3	3.70	0.020	<0.010	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
F 338	1.0	2.70	0.020	<0.010	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
GRANBY--Continued										
GR 332	6.2	0.500	<0.010	0.050	0.02	--	--	--	--	--
GR 333	12	1.20	<0.010	0.060	<0.01	--	--	--	--	--
MANCHESTER--Continued										
M 165	24	3.00	0.010	<0.010	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
M 174	7.9	3.30	0.030	0.030	0.05	--	--	--	--	--
M 175	6.4	3.20	0.030	<0.010	0.05	--	--	--	--	--
NEW BRITAIN--Continued										
NB 212	7.9	2.80	<0.010	0.020	0.08	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	2,4,5-T TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	METHO- MYL TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	AME- TRYNE TOTAL	ATRA- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)
FAIRFIELD COUNTY										
DANBURY--Continued										
DY 91	<0.01	--	--	--	--	--	--	--	--	--
RIDGEFIELD--Continued										
R 66	<0.01	--	--	--	--	--	--	--	--	--
SHELTON--Continued										
SH 44	--	--	--	--	<0.10	<0.10	0.20	<0.10	<0.1	<0.1
SH 45	--	--	--	--	<0.10	<0.10	0.20	<0.10	<0.1	<0.1
SH 46	--	<0.50	<0.5	<0.5	--	--	--	--	--	--
SH 47	--	<0.50	<0.5	<0.5	--	--	--	--	--	--
STAMFORD--Continued										
STM 42	<0.01	--	--	--	--	--	--	--	--	--
HARTFORD COUNTY										
AVON--Continued										
A 306	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
A 306	<0.01	--	--	--	--	--	--	--	--	--
CANTON--Continued										
CA 137	<0.01	--	--	--	--	--	--	--	--	--
CA 138	<0.01	--	--	--	--	--	--	--	--	--
ENFIELD--Continued										
EF 119	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	0.20	<0.10	<0.1	<0.1
EF 120	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
EF 121	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
EF 122	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
EF 123	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	0.30	<0.10	<0.1	<0.1
FARMINGTON--Continued										
F 329	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
F 329	<0.01	--	--	--	--	--	--	--	--	--
F 334	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
F 335	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
F 336	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
F 337	<0.01	--	--	--	--	--	--	--	--	--
F 338	<0.01	--	--	--	--	--	--	--	--	--
GRANBY--Continued										
GR 332	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
GR 333	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MANCHESTER--Continued										
M 165	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
M 174	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
M 175	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
NEW BRITAIN--Continued										
NB 212	<0.01	<0.50	<0.5	<0.5	--	--	--	--	--	--

QUALITY OF GROUND WATER

273

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
FAIRFIELD COUNTY										
DANBURY--Continued										
DY 91	--	--	--	--	--	--	--	--	--	--
RIDGEFIELD--Continued										
R 66	--	--	--	--	--	--	--	--	--	--
SHELTON--Continued										
SH 44	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SH 45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SH 46	--	--	--	--	--	--	--	--	--	--
SH 47	--	--	--	--	--	--	--	--	--	--
STAMFORD--Continued										
STM 42	--	--	--	--	--	--	--	--	--	--
HARTFORD COUNTY										
AVON--Continued										
A 306	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
A 306	--	--	--	--	--	--	--	--	--	--
CANTON--Continued										
CA 137	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
CA 138	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
ENFIELD--Continued										
EF 119	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
EF 120	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
EF 121	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
EF 122	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
EF 123	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
FARMINGTON--Continued										
F 329	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
F 329	--	--	--	--	--	--	--	--	--	--
F 334	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
F 335	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
F 336	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
F 337	--	--	--	--	--	--	--	--	--	--
F 338	--	--	--	--	--	--	--	--	--	--
GRANBY--Continued										
GR 332	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
GR 333	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MANCHESTER--Continued										
M 165	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
M 174	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
M 175	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
NEW BRITAIN--Continued										
NB 212	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	PCB, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
FAIRFIELD COUNTY										
DANBURY--Continued										
DY 91	--	--	--	--	--	--	--	--	--	--
RIDGEFIELD--Continued										
R 66	--	--	--	--	--	--	--	--	--	--
SHELTON--Continued										
SH 44	--	--	--	--	--	--	--	--	--	--
SH 45	--	--	--	--	--	--	--	--	--	--
SH 46	--	--	--	--	--	--	--	--	--	--
SH 47	--	--	--	--	--	--	--	--	--	--
STAMFORD--Continued										
STM 42	--	--	--	--	--	--	--	--	--	--
HARTFORD COUNTY										
AVON--Continued										
A 306	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001
A 306	--	--	--	--	--	--	--	--	--	--
CANTON--Continued										
CA 137	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001
CA 138	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001
ENFIELD--Continued										
EF 119	--	--	--	--	--	--	--	--	--	--
EF 120	--	--	--	--	--	--	--	--	--	--
EF 121	--	--	--	--	--	--	--	--	--	--
EF 122	--	--	--	--	--	--	--	--	--	--
EF 123	--	--	--	--	--	--	--	--	--	--
FARMINGTON--Continued										
F 329	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001
F 329	--	--	--	--	--	--	--	--	--	--
F 334	--	--	--	--	--	--	--	--	--	--
F 335	--	--	--	--	--	--	--	--	--	--
F 336	--	--	--	--	--	--	--	--	--	--
F 337	--	--	--	--	--	--	--	--	--	--
F 338	--	--	--	--	--	--	--	--	--	--
GRANBY--Continued										
GR 332	--	--	--	--	--	--	--	--	--	--
GR 333	--	--	--	--	--	--	--	--	--	--
MANCHESTER--Continued										
M 165	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001
M 174	--	--	--	--	--	--	--	--	--	--
M 175	--	--	--	--	--	--	--	--	--	--
NEW BRITAIN--Continued										
NB 212	<0.001	<0.01	<0.001	<0.001	<0.001	<0.01	<0.1	<0.001	<0.001	<0.001

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)
FAIRFIELD COUNTY									
DANBURY--Continued									
DY 91	--	--	--	--	--	--	--	--	--
RIDGEFIELD--Continued									
R 66	--	--	--	--	--	--	--	--	--
SHELTON--Continued									
SH 44	--	--	--	--	--	--	--	--	--
SH 45	--	--	--	--	--	--	--	--	--
SH 46	--	--	--	--	--	--	--	--	--
SH 47	--	--	--	--	--	--	--	--	--
STAMFORD--Continued									
STM 42	--	--	--	--	--	--	--	--	--
HARTFORD COUNTY									
AVON--Continued									
A 306	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
A 306	--	--	--	--	--	--	--	--	--
CANTON--Continued									
CA 137	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
CA 138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
ENFIELD--Continued									
EF 119	--	--	--	--	--	--	--	--	--
EF 120	--	--	--	--	--	--	--	--	--
EF 121	--	--	--	--	--	--	--	--	--
EF 122	--	--	--	--	--	--	--	--	--
EF 123	--	--	--	--	--	--	--	--	--
FARMINGTON--Continued									
F 329	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
F 329	--	--	--	--	--	--	--	--	--
F 334	--	--	--	--	--	--	--	--	--
F 335	--	--	--	--	--	--	--	--	--
F 336	--	--	--	--	--	--	--	--	--
F 337	--	--	--	--	--	--	--	--	--
F 338	--	--	--	--	--	--	--	--	--
GRANBY--Continued									
GR 332	--	--	--	--	--	--	--	--	--
GR 333	--	--	--	--	--	--	--	--	--
MANCHESTER--Continued									
M 165	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
M 174	--	--	--	--	--	--	--	--	--
M 175	--	--	--	--	--	--	--	--	--
NEW BRITAIN--Continued									
NB 212	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	STATION	NUMBER	GEO- LOGIC UNIT	COUNTY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
HARTFORD COUNTY										
SIMSBURY										
SI 447	415251072483001	112DFS	003		5.04	15.80	89-06-26	113	6.00	8.0
SI 451	415300072480301	112DFS	003		32.75	45.70	89-06-26	249	6.45	10.0
SI 451	415300072480301	112DFS	003		32.53	45.70	89-08-25	253	7.08	10.0
SI 452	415340072472501	112DFS	003		16.12	31.20	89-06-20	158	6.10	9.0
SI 453	415441072472601	112DFS	003		13.07	20.30	89-06-22	660	6.00	8.0
SI 453	415441072472601	112DFS	003		14.88	20.30	89-08-25	504	5.78	9.0
SI 454	415248072470401	112DFS	003		10.71	29.04	89-08-10	155	8.40	9.5
SI 455	415248072470402	112DFS	003		--	18.85	89-08-10	168	8.40	11.0
SI 456	415105072482201	112DFS	003		5.17	13.09	89-07-05	135	6.60	9.5
SI 457	415306072474501	112DFS	003		2.61	40.30	89-07-03	265	6.70	10.5
SI 458	415306072474502	112DFS	003		4.11	16.83	89-07-03	275	6.30	8.0
SI 459	415434072503701	112DFS	003		10.62	26.11	89-08-15	278	7.40	11.0
SI 460	415422072505401	112DFS	003		6.94	21.08	89-08-16	270	7.90	10.0
WETHERSFIELD										
WF 181	414114072405601	112TILL	003		2.01	8.00	89-07-10	405	6.70	14.0
WF 182	414114072405602	231EBRL	003		2.06	24.05	89-07-10	440	6.50	10.5
WINDSOR										
W 215	415059072393401	112DFS	003		8.17	9.40	89-07-27	195	6.70	12.0
W 216	415056072393901	112DFS	003		8.42	12.83	89-07-25	460	7.10	11.5
LITCHFIELD COUNTY										
NEW MILFORD										
NMI 32	413354073253901	112DFS	005		20.89	28.75	89-08-04	1090	7.00	10.0
WASHINGTON										
WA 8	413750073065301	112TILL	005		2.85	15.00	89-08-17	127	6.70	11.5
WOODBURY										
WY 59	413258073123001	112DFS	005		25.89	44.70	89-06-28	164	6.50	10.0
WY 62	413320073114101	112DFS	005		8.24	18.92	89-07-14	200	6.05	9.0
WY 63	413322073114101	112DFS	005		8.43	18.75	89-07-14	185	6.00	9.0
MIDDLESEX COUNTY										
DURHAM										
D 125	412734072412601	112DFS	007		1.38	13.40	89-06-15	527	7.00	9.0
MIDDLEFIELD										
MF 213	413010072413701	112TILL	007		2.99	14.11	89-06-16	120	5.60	11.0
MF 214	413009072473101	112TILL	007		2.15	14.77	89-06-16	181	6.20	13.5
MF 215	412931072434401	112TILL	007		4.07	8.00	89-06-12	134	6.21	12.0
MF 216	412935072434001	112TILL	007		0.68	10.00	89-06-12	182	6.00	9.0
MF 217	412935072434002	231EBRL	007		-5.73	21.90	89-06-12	221	6.15	9.0
MF 218	412925072424101	112TILL	007		1.61	21.00	89-06-16	300	8.00	--
PORTLAND										
P 110	413731072373401	112DFS	007		9.51	47.96	89-07-31	114	5.52	9.5
P 111	413731072373402	112DFS	007		10.01	28.36	89-07-31	237	5.75	8.5
P 112	413731072373403	112DFS	007		10.05	14.15	89-07-31	76	5.86	10.0

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 (MG/L AS N)	NITRO- GEN, AMMONIA (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	2,4-D, TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
HARTFORD COUNTY										
SIMSBURY--Continued										
SI 447	18	<0.100	0.120	<0.010	0.15	<0.01	<0.01	<0.01	<0.01	<0.01
SI 451	16	8.80	<0.010	0.010	0.17	--	--	--	--	--
SI 451	17	5.80	<0.010	0.010	0.10	<0.01	<0.01	<0.01	<0.01	<0.01
SI 452	13	3.50	<0.010	<0.010	0.11	<0.01	<0.01	<0.01	<0.01	<0.01
SI 453	180	0.300	0.030	0.050	0.55	--	--	--	--	--
SI 453	110	2.50	<0.010	0.010	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
SI 454	2.7	1.10	0.030	0.070	<0.01	--	--	--	--	--
SI 455	7.2	4.80	0.010	0.030	0.01	--	--	--	--	--
SI 456	6.2	8.30	<0.010	0.050	0.13	--	--	--	--	--
SI 457	29	3.90	<0.010	<0.010	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
SI 458	40	3.20	<0.010	<0.010	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
SI 459	3.7	3.60	0.020	0.020	0.09	<0.01	<0.01	<0.01	<0.01	<0.01
SI 460	8.1	8.10	<0.010	0.020	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
WETHERSFIELD--Continued										
WF 181	13	2.00	0.020	<0.010	0.12	<0.10	<0.10	<0.10	<0.10	<0.10
WF 182	14	1.90	0.010	<0.010	0.06	<0.10	<0.10	<0.10	<0.10	<0.10
WINDSOR--Continued										
W 215	<0.10	4.00	<0.010	0.010	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
W 216	18	24.0	<0.010	<0.010	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
LITCHFIELD COUNTY										
NEW MILFORD--Continued										
NMI 32	45	28.0	0.010	<0.010	0.27	<0.01	<0.01	<0.01	<0.01	<0.01
WASHINGTON--Continued										
WA 8	2.5	0.900	0.030	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WOODBURY--Continued										
WY 59	4.1	4.10	0.021	0.030	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
WY 62	18	6.00	<0.010	0.010	0.10	--	--	--	--	--
WY 63	16	5.20	<0.010	<0.010	0.12	--	--	--	--	--
MIDDLESEX COUNTY										
DURHAM--Continued										
D 125	58	<0.100	1.40	<0.010	0.07	--	--	--	--	--
MIDDLEFIELD--Continued										
MF 213	0.90	0.800	<0.010	0.030	0.04	--	--	--	--	--
MF 214	3.1	1.30	<0.010	0.030	0.03	--	--	--	--	--
MF 215	3.4	4.60	0.020	0.010	0.20	<0.01	<0.01	<0.01	<0.01	<0.01
MF 216	6.0	3.10	0.010	0.020	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
MF 217	10	3.90	0.010	0.020	0.20	<0.01	<0.01	<0.01	<0.01	<0.01
MF 218	3.4	2.70	0.050	0.030	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
PORTLAND--Continued										
P 110	7.2	<0.100	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
P 111	10	11.0	<0.010	<0.010	0.12	<0.01	<0.01	<0.01	<0.01	<0.01
P 112	5.5	1.10	<0.010	<0.010	0.02	<0.01	<0.01	<0.01	0.10	<0.01

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	2,4,5-T TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	METHO- MYL TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	AME- TRYNE TOTAL	ATRA- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)
HARTFORD COUNTY										
SIMSBURY--Continued										
SI 447	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 451	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 451	<0.01	--	--	--	--	--	--	--	--	--
SI 452	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 453	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 453	<0.01	--	--	--	--	--	--	--	--	--
SI 454	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 455	--	--	--	--	<0.10	<0.10	0.10	<0.10	<0.1	<0.1
SI 456	--	--	--	--	<0.10	<0.10	1.5	<0.10	0.7	<0.1
SI 457	<0.01	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 458	<0.01	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SI 459	<0.01	--	--	--	--	--	--	--	--	--
SI 460	<0.01	--	--	--	--	--	--	--	--	--
WETHERSFIELD--Continued										
WF 181	<0.10	<0.50	<0.5	<0.5	--	--	--	--	--	--
WF 182	<0.10	<0.50	<0.5	<0.5	--	--	--	--	--	--
WINDSOR--Continued										
W 215	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	1.3
W 216	<0.01	<0.50	<0.5	<0.5	0.10	<0.10	0.30	<0.10	0.7	0.5
LITCHFIELD COUNTY										
NEW MILFORD--Continued										
NMI 32	<0.01	--	--	--	<0.10	<0.10	0.10	<0.10	<0.1	<0.1
WASHINGTON--Continued										
WA 8	<0.01	--	--	--	--	--	--	--	--	--
WOODBURY--Continued										
WY 59	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
WY 62	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
WY 63	--	--	--	--	<0.10	<0.10	0.10	<0.10	<0.1	<0.1
MIDDLESEX COUNTY										
DURHAM--Continued										
D 125	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MIDDLEFIELD--Continued										
MF 213	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MF 214	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MF 215	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MF 216	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MF 217	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MF 218	<0.01	--	--	--	--	--	--	--	--	--
PORTLAND--Continued										
P 110	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
P 111	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
P 112	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
HARTFORD COUNTY										
SIMSBURY--Continued										
SI 447	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
SI 451	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
SI 451	--	--	--	--	--	--	--	--	--	--
SI 452	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
SI 453	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
SI 453	--	--	--	--	--	--	--	--	--	--
SI 454	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SI 455	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SI 456	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SI 457	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SI 458	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SI 459	--	--	--	--	--	--	--	--	--	--
SI 460	--	--	--	--	--	--	--	--	--	--
WETHERSFIELD--Continued										
WF 181	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
WF 182	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
WINDSOR--Continued										
W 215	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
W 216	<0.1	<0.1	<0.10	1.8	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
LITCHFIELD COUNTY										
NEW MILFORD--Continued										
NMI 32	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
WASHINGTON--Continued										
WA 8	--	--	--	--	--	--	--	--	--	--
WOODBURY--Continued										
WY 59	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	0.001
WY 62	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
WY 63	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MIDDLESEX COUNTY										
DURHAM--Continued										
D 125	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
MIDDLEFIELD--Continued										
MF 213	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MF 214	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MF 215	<0.1	<0.1	<0.10	0.10	<0.1	<0.10	--	--	--	--
MF 216	<0.1	<0.1	<0.10	0.30	<0.1	<0.10	--	--	--	--
MF 217	<0.1	<0.1	<0.10	0.30	<0.1	<0.10	--	--	--	--
MF 218	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
PORTLAND--Continued										
P 110	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
P 111	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
P 112	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--

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MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THON, TOTAL (UG/L)	METHYL TRI- THON, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THON, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THON (UG/L)
879	65	10	12	ND	15	ND	ND	10

SIMSBURY--Continued

[illegible]

WF	181	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
WF	182	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01

W 215	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01
W 216	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<1	<0.01

NEW MILFORD--Continued

NMI	32	--	--	--	--	--	--	--	--
-----	----	----	----	----	----	----	----	----	----

WA	8	--	--	--	--	--	--	--	--
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DURHAM--Continued

0	125	--	<0.01	--	--	<0.01	--	<0.1	<1	--
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MF 213	--	--	--	--	--	--	--	--
MF 214	--	--	--	--	--	--	--	--
MF 215	--	--	--	--	--	--	--	--
MF 216	--	--	--	--	--	--	--	--
MF 217	--	--	--	--	--	--	--	--
MF 218	--	<0.01	--	--	<0.01	--	<0.1	<1

P	110	--	--	--	--	--	--	--	--
P	111	--	--	--	--	--	--	--	--
P	112	--	--	--	--	--	--	--	--

QUALITY OF GROUNDWATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	STATION	NUMBER	GEO- LOGIC UNIT	COUNTY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
NEW HAVEN COUNTY										
HAMDEN										
HM 445	412423072542801	231NHVN	009		24.78	36.35	89-08-01	170	6.30	8.5
SOUTHBURY										
SB 35	412918073132501	112DFS	009		8.75	26.10	89-06-28	566	7.55	10.0
WALLINGFORD										
WLD 275	412805072511401	112TILL	009		5.51	22.05	89-08-01	255	7.35	10.0
WATERBURY										
WB 394	413131073004802	300NCBC	009		7.20	30.70	89-07-17	82	5.00	9.0
WB 395	413323073051101	112TILL	009		1.74	15.00	89-07-14	168	7.00	10.5
WB 396	413131073004801	112TILL	009		7.44	17.00	89-07-17	101	6.18	9.0
NEW LONDON COUNTY										
FRANKLIN										
FR 23	413644072080501	112DFS	011		7.42	13.74	89-07-12	440	5.65	9.0
GRISWOLD										
GS 85	413343071523201	112DFS	011		6.43	33.64	89-08-02	75	6.65	10.0
GS 86	413343071523202	112DFS	011		5.79	11.79	89-08-02	702	5.14	14.0
GS 88	413427071583701	112TILL	011		3.69	6.66	89-08-22	390	6.22	13.5
GS 89	413427071583702	300NCBC	011		4.27	14.94	89-08-22	373	6.03	13.0
LEBANON										
LB 51	413812072192601	112TILL	011		4.38	15.37	89-08-14	615	6.34	9.5
PRESTON										
PS 137	413001072025701	112DFS	011		13.02	23.58	89-07-12	460	5.90	9.5
STONINGTON										
SN 176	412111071540401	112TILL	011		5.92	12.23	89-07-11	182	6.00	11.5
SN 177	412111071540402	300NCBC	011		5.84	22.83	89-07-11	275	5.90	10.0
TOLLAND COUNTY										
COVENTRY										
CV 38	414745072210101	112DFS	013		3.75	13.48	89-06-29	96	6.00	8.0
CV 43	414930072210102	112TILL	013		3.30	15.00	89-08-11	270	7.25	12.5
ELLINGTON										
EL 86	415441072274101	112DFS	013		5.70	16.40	89-06-29	169	6.00	10.0
MANSFIELD										
MS 45	414825072185601	112DFS	013		10.59	18.40	89-06-09	293	5.95	8.0
MS 46	414825072185602	112DFS	013		12.09	42.52	89-06-09	271	5.80	9.0
MS 47	414850072142001	112TILL	013		4.99	14.60	89-07-06	415	6.44	11.5
SOMERS										
SO 108	420103072302101	112TILL	013		8.17	14.87	89-07-19	478	6.60	10.0
SO 109	420103072302102	231PRLD	013		7.63	36.11	89-07-19	642	7.65	8.5

QUALITY OF GROUND WATER

283

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	2,4-D, TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NEW HAVEN COUNTY										
HAMDEN--Continued										
HM 445	9.9	2.10	<0.010	0.030	0.02	--	--	--	--	--
SOUTHURY--Continued										
SB 35	--	--	--	--	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
WALLINGFORD--Continued										
WLD 275	10	2.60	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WATERBURY--Continued										
WB 394	7.9	0.800	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WB 395	17	3.40	0.070	0.010	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
WB 396	7.3	1.70	0.070	<0.010	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
NEW LONDON COUNTY										
FRANKLIN--Continued										
FR 23	13	31.0	0.020	<0.010	0.47	--	--	--	--	--
GRISWOLD--Continued										
GS 85	2.1	0.200	<0.010	0.020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
GS 86	5.0	15.0	<0.010	0.010	0.15	<0.01	<0.01	<0.01	<0.01	<0.01
GS 88	28	5.20	<0.010	0.010	0.21	--	--	--	--	--
GS 89	28	5.20	<0.010	0.010	0.19	--	--	--	--	--
LEBANON--Continued										
LB 51	24	5.70	0.030	0.010	--	--	--	--	--	--
PRESTON--Continued										
PS 137	13	18.0	0.021	<0.010	0.32	<0.01	<0.01	<0.01	<0.01	<0.01
STONINGTON--Continued										
SN 176	4.8	3.80	0.020	0.020	0.11	--	--	--	--	--
SN 177	9.3	11.0	0.010	0.010	0.16	--	--	--	--	--
TOLLAND COUNTY										
COVENTRY--Continued										
CV 38	7.7	3.40	0.030	<0.010	0.12	<0.01	<0.01	<0.01	<0.01	<0.01
CV 43	10	0.200	0.280	0.100	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ELLINGTON--Continued										
EL 86	--	--	--	--	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
MANSFIELD--Continued										
MS 45	6.3	14.0	<0.010	0.020	0.46	<0.01	<0.01	<0.01	<0.01	<0.01
MS 46	11	12.0	<0.010	0.020	0.19	<0.01	<0.01	<0.01	<0.01	<0.01
MS 47	27	5.10	0.180	0.040	0.17	<0.01	<0.01	<0.01	<0.01	<0.01
SOMERS--Continued										
SO 108	32	18.0	<0.010	0.020	0.24	--	--	--	--	--
SO 109	41	25.0	<0.010	0.030	0.31	--	--	--	--	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	2,4,5-T TOTAL (UG/L) (39740)	SEVIN, TOTAL (UG/L) (39750)	METHO- MYL TOTAL (UG/L) (39051)	PROPHAM TOTAL (UG/L) (39052)	ALA- CHLOR TOTAL RECOVER (UG/L) (77825)	AME- TRYNE TOTAL (82184)	ATRA- ZINE, TOTAL (UG/L) (39630)	CYAN- AZINE TOTAL (UG/L) (81757)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L) (82612)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L) (82611)
NEW HAVEN COUNTY										
HAMDEN--Continued										
HM 445	--	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
SOUTHBURY--Continued										
SB 35	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
WALLINGFORD--Continued										
WLD 275	<0.01	--	--	--	--	--	--	--	--	--
WATERBURY--Continued										
WB 394	<0.01	<0.50	<0.5	<0.5	--	--	--	--	--	--
WB 395	<0.01	<0.50	<0.5	<0.5	--	--	--	--	--	--
WB 396	<0.01	<0.50	<0.5	<0.5	--	--	--	--	--	--
NEW LONDON COUNTY										
FRANKLIN--Continued										
FR 23	--	--	--	--	<0.10	<0.10	1.3	<0.10	2.1	<0.1
GRISWOLD--Continued										
GS 85	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
GS 86	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
GS 88	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
GS 89	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
LEBANON--Continued										
LB 51	--	--	--	--	<0.10	<0.10	0.70	<0.10	<0.1	<0.1
PRESTON--Continued										
PS 137	<0.01	--	--	--	<0.10	<0.10	0.10	<0.10	<0.1	<0.1
STONINGTON--Continued										
SN 176	--	--	--	--	<0.10	<0.10	0.30	<0.10	<0.1	<0.1
SN 177	--	--	--	--	<0.10	<0.10	1.0	<0.10	<0.1	<0.1
TOLLAND COUNTY										
COVENTRY--Continued										
CV 38	<0.01	--	--	--	<0.10	<0.10	3.4	<0.10	3.8	<0.1
CV 43	<0.01	--	--	--	--	--	--	--	--	--
ELLINGTON--Continued										
EL 86	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MANSFIELD--Continued										
MS 45	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MS 46	<0.01	<0.50	<0.5	<0.5	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1
MS 47	<0.01	--	--	--	<0.10	<0.10	0.30	<0.10	0.1	<0.1
SOMERS--Continued										
SO 108	--	<0.50	<0.5	<0.5	<0.10	<0.10	0.20	<0.10	<0.1	<0.1
SO 109	--	<0.50	<0.5	<0.5	<0.10	<0.10	0.10	<0.10	<0.1	<0.1

QUALITY OF GROUND WATER

285

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
NEW HAVEN COUNTY										
HAMDEN--Continued										
HM 445	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SOUTHURY--Continued										
SB 35	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
WALLINGFORD--Continued										
WLD 275	--	--	--	--	--	--	--	--	--	--
WATERBURY--Continued										
WB 394	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
WB 395	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
WB 396	--	--	--	--	--	--	<0.001	<0.1	<0.001	<0.001
NEW LONDON COUNTY										
FRANKLIN--Continued										
FR 23	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
GRISWOLD--Continued										
GS 85	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
GS 86	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
GS 88	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
GS 89	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
LEBANON--Continued										
LB 51	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
PRESTON--Continued										
PS 137	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
STONINGTON--Continued										
SN 176	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SN 177	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
TOLLAND COUNTY										
COVENTRY--Continued										
CV 38	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
CV 43	--	--	--	--	--	--	--	--	--	--
ELLINGTON--Continued										
EL 86	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	<0.001	<0.1	<0.001	<0.001
MANSFIELD--Continued										
MS 45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MS 46	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
MS 47	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SOMERS--Continued										
SO 108	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--
SO 109	<0.1	<0.1	<0.10	<0.10	<0.1	<0.10	--	--	--	--

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[illegible]

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	STATION	NUMBER	GEO- LOGIC UNIT	COUNTY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
WINDHAM COUNTY										
HAMPTON										
HP 29	414717072023101		112TILL	015	16.43	16.56	89-08-21	78	6.91	10.0
HP 30	414444072040901		112TILL	015	2.75	13.51	89-07-24	63	6.10	12.0
PLAINFIELD										
PL 440	414306071562801		112DFS	015	3.63	43.40	89-07-13	104	6.70	9.0
PL 441	414306071562802		112DFS	015	4.91	13.09	89-07-13	225	6.15	11.0
SCOTLAND										
SC 24	414251072062201		112TILL	015	4.87	12.70	89-07-06	340	5.82	10.0
SC 25	414251072062202		300NCBC	015	3.76	27.69	89-07-06	390	7.45	7.0
STERLING										
SG 101	414208071504501		300NCBC	015	4.28	10.47	88-11-29	90	5.50	10.0
SG 101	414208071504501		300NCBC	015	8.55	10.47	89-08-03	100	5.10	12.0
SG 102	414208071504502		112TILL	015	4.68	5.38	88-11-29	118	6.65	7.5
WOODSTOCK										
WK 211	415656071573101		112TILL	015	23.94	33.00	89-08-14	176	7.80	10.0

QUALITY OF GROUND WATER

289

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	2,4-D, TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
WINDHAM COUNTY										
HAMPTON--Continued										
HP 29	4.1	<0.100	<0.010	0.010	<0.01	--	--	--	--	--
HP 30	3.1	0.200	0.030	<0.010	<0.01	<0.01	<0.01	<0.01	--	<0.01
PLAINFIELD--Continued										
PL 440	4.2	1.70	0.020	0.010	0.06	--	--	--	--	--
PL 441	9.3	13.0	0.020	<0.010	0.20	--	--	--	--	--
SCOTLAND--Continued										
SC 24	11	21.0	0.780	0.020	0.41	--	--	--	--	--
SC 25	20	9.80	0.010	0.021	0.15	--	--	--	--	--
STERLING--Continued										
SG 101	9.2	2.70	<0.010	<0.010	0.02	--	--	--	--	--
SG 101	7.2	3.30	<0.010	0.020	0.04	--	--	--	--	--
SG 102	9.8	0.300	<0.010	<0.010	0.03	--	--	--	--	--
WOODSTOCK--Continued										
WK 211	2.7	5.50	0.030	<0.010	0.08	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

[illegible]

[illegible]

LOCAL
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FIER

MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)
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HAMPTON--Continued

[illegible]

PL 440	--	--	--	--	--	--	--	--
PL 441	--	--	--	--	--	--	--	--

SC	24	--	--	--	--	--	--	--	--
SC	25	--	--	--	--	--	--	--	--

SG	101	--	--	--	--	--	--	--	--
SG	101	--	--	--	--	--	--	--	--
SG	102	--	--	--	--	--	--	--	--

WK	211	--	--	--	--	--	--	--	--
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QUALITY OF GROUND WATER

The following data pertains to a study of naturally occurring radionuclides in Connecticut ground water.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	STATION	NUMBER	GEO- LOGIC UNIT	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
FAIRFIELD COUNTY								
GREENWICH								
GW 20	410410073410501	400NCBC	89-09-05	260	7.70	12.0	0.4	
NEW FAIRFIELD								
NFF 15	412834073294301	300NCBC	89-08-31	211	7.70	13.0	6.1	
NFF 16	412847073282401	300NCBC	89-09-05	193	7.10	12.5	4.4	
NFF 17	412943073295801	300NCBC	89-09-05	213	6.60	12.0	12.6	
RIDGEFIELD								
R 67	412106073311801	300NCBC	89-08-17	614	6.40	18.0	7.0	
R 68	412108073311801	300NCBC	89-08-17	185	5.90	13.0	3.8	
R 69	411713073312001	300NCBC	89-08-22	279	6.10	15.5	6.1	
HARTFORD COUNTY								
CANTON								
CA 136	413747072550001	300NCBC	88-12-07	203	7.40	9.5	2.2	
ENFIELD								
EF 124	420100072322901	231PRLD	89-07-13	280	8.00	14.0	8.3	
EAST WINDSOR								
EW 138	415416072311601	231PRLD	89-07-27	469	8.00	14.0	4.8	
GRANBY								
GR 344	415817072491101	231NHVN	89-08-01	189	8.30	13.5	7.6	
SIMSBURY								
SI 451	415300072480301	112DFSF	89-09-06	252	6.60	--	12.0	
SI 474	414907072511801	231NHVN	89-07-17	544	7.60	12.0	5.7	
SUFFIELD								
SU 233	415957072445401	231PRLD	89-08-04	130	8.40	13.5	7.6	
WETHERSFIELD								
WF 182	414114072405602	231EBRL	89-07-10	408	6.70	16.0	3.5	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CAC03	CAR- BONATE WATER WH IT FIELD MG/L AS CO3	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	RADON 222 DISSOLV COUNT. ERROR (PC/L)	RADON 222 DISSOLV COUNT. ERROR (PC/L)	RADIUM 228 DIS- SOLVED (PC/L) AS RA-228)	GROSS ALPHA, DIS- SOLVED (UG/L) AS U-NAT)
FAIRFIELD COUNTY								
GREENWICH--Continued								
GW 20	175	101	0	123	358	46	--	--
NEW FAIRFIELD--Continued								
NFF 15	134	89	0	108	312	34	--	--
NFF 16	107	80	0	98	978	22	--	--
NFF 17	132	80	0	98	267	22	--	--
RIDGEFIELD--Continued								
R 67	402	124	0	151	394	61	--	--
R 68	139	51	0	62	569	56	--	--
R 69	211	84	0	103	6056	164	--	--
HARTFORD COUNTY								
CANTON--Continued								
CA 136	117	52	0	64	3651	90	<1.0	2.6
ENFIELD--Continued								
EF 124	205	--	--	--	2366	60	--	--
EAST WINDSOR--Continued								
EW 138	381	51	0	62	1030	49	<1.0	3.3
GRANBY--Continued								
GR 344	140	70	0	86	3421	95	<1.0	2.1
SIMSBURY--Continued								
SI 451	161	29	0	35	143	50	--	0.4
SI 474	362	127	0	155	1176	55	--	7.7
SUFFERFIELD--Continued								
SU 233	86	63	0	77	1711	59	--	--
WETHERSFIELD--Continued								
WF 182	314	106	0	129	874	62	<1.0	1.0

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT - I - FIER		GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	URANIUM NATURAL TOTAL (UG/L AS U)
FAIRFIELD COUNTY								
GREENWICH--Continued								
GW	20	--	--	--	--	--	--	--
NEW FAIRFIELD--Continued								
NFF	15	--	--	--	--	--	--	--
NFF	16	--	--	--	--	--	--	--
NFF	17	--	--	--	--	--	--	--
RIDGEFIELD--Continued								
R	67	--	--	--	--	--	--	--
R	68	--	--	--	--	--	1.2	--
R	69	--	--	--	--	--	3.8	--
HARTFORD COUNTY								
CANTON--Continued								
CA	136	--	2.6	--	3.2	--	<1.0	--
ENFIELD--Continued								
EF	124	--	--	--	--	--	--	--
EAST WINDSOR--Continued								
EW	138	16	2.9	<0.4	3.3	<0.4	2.7	2.7
GRANBY--Continued								
GR	344	<0.4	1.6	<0.4	1.3	<0.4	1.1	2.2
SIMSBURY--Continued								
SI	451	<0.4	1.5	<0.4	1.8	<0.4	--	--
SI	474	<0.4	--	0.5	--	0.5	12	10
SUFFIELD--Continued								
SU	233	--	--	--	--	--	--	--
WETHERSFIELD--Continued								
WF	182	0.7	1.2	1.2	1.3	1.0	<1.0	<1.0

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	STATION	NUMBER	GEO- LOGIC UNIT	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
LITCHFIELD COUNTY										
BARKHAMSTED										
BA 103	415400073003501	300NCBC	89-08-30	79	8.70	12.5	9.4	56	35	
BETHLEHEM										
BM 3	413709073095001	300NCBC	89-03-28	112	5.60	11.0	9.6	71	16	
			89-03-28	112	5.60	11.0	9.6	--	16	
			89-03-28	112	5.60	11.0	9.6	--	16	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-05-10	140	5.50	10.5	9.2	--	13	
			89-06-07	132	5.80	11.5	9.2	--	20	
			89-06-07	132	5.80	11.5	9.2	--	20	
			89-06-23	121	5.90	12.0	9.2	--	20	
			89-06-23	121	5.90	12.0	9.2	--	20	
			89-07-05	302	6.50	12.5	7.7	--	--	
			89-07-19	207	6.20	12.0	7.2	--	62	
			89-07-26	210	6.20	13.0	5.2	--	62	
			89-07-26	210	6.20	13.0	5.2	--	62	
			89-08-02	274	6.70	14.0	6.0	--	71	
			89-08-09	204	6.20	12.0	6.8	--	64	
			89-08-23	204	6.40	13.0	5.8	--	57	
CANAAN										
CN 30	415752073162101	300CBCL	89-08-21	402	7.80	12.0	1.4	251	245	
COLEBROOK										
C 36	414630073021601	300NCBC	88-12-07	139	8.00	9.5	5.5	67	53	
CORNWALL										
CRN 25	414803073215001	300NCBC	89-08-21	88	6.10	12.0	8.9	61	15	
HARWINTON										
HA 8	414608073030201	300NCBC	88-10-11	225	5.90	10.5	0.8	135	19	
HA 9	414319073021701	300NCBC	88-10-11	226	5.70	9.5	5.2	130	10	
KENT										
KT 43	414533073290601	300NCBC	89-08-18	342	7.80	13.0	2.6	209	193	
KT 44	414622073244401	300NCBC	89-08-31	167	7.90	12.5	0.1	99	82	
WARREN										
WR 13	414527073234201	300NCBC	89-08-18	78	7.10	12.0	5.5	59	31	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- IFIER	DATE	CAR- BONATE WATER WH IT FIELD MG/L AS CO3	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	RADON 222 DISSOLV COUNT. 222 DISSOLV (PC/L)	RADON 222 DISSOLV ERROR (PC/L)	RADIUM 228 DIS- SOLVED (PC/L AS RA-228)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PC/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PC/L AS CS-137)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
LITCHFIELD COUNTY										
BARKHAMSTED--Continued										
BA 103		2	39	3348	96	--	--	--	--	--
BETHLEHEM--Continued										
BM 3	89-03-28	0	20	--	--	--	130	24	27	<1.0
	89-03-28	0	20	28954	234	--	--	--	--	--
	89-03-28	0	20	29493	259	--	--	--	--	--
	89-05-10	0	16	28474	274	--	--	--	--	--
	89-05-10	0	16	39152	638	--	--	--	--	--
	89-05-10	0	16	29291	274	--	--	--	--	--
	89-05-10	0	16	27386	369	--	--	--	--	--
	89-05-10	0	16	29571	464	--	--	--	--	--
	89-05-10	0	16	32331	416	--	--	--	--	--
	89-06-07	0	25	81483	515	--	--	--	--	--
	89-06-07	0	25	83350	397	--	--	--	--	--
	89-06-23	0	24	35548	210	--	--	--	--	--
	89-06-23	0	24	33397	285	--	--	--	--	--
	89-07-05	--	--	76593	434	--	--	--	--	--
	89-07-19	0	76	140370	438	--	--	--	--	--
	89-07-26	0	76	162810	1120	--	--	--	--	--
	89-07-26	0	76	206910	1055	--	--	--	--	--
	89-08-02	0	87	145860	654	--	--	--	--	--
	89-08-09	0	78	145470	835	--	--	--	--	--
	89-08-23	0	70	84009	424	--	--	--	--	--
CANAAH--Continued										
CN 30		0	299	820	64	--	--	--	--	--
COLEBROOK--Continued										
C 36		0	65	3995	71	--	2.6	3.7	4.3	1.1
CORNWALL--Continued										
CRN 25		0	18	581	70	--	--	--	--	<1.0
HARWINTON--Continued										
HA 8		0	23	1353	124	<1.0	2.7	3.5	4.3	<1.0
HA 9		0	12	4153	53	<1.0	3.9	3.0	3.7	<1.0
KENT--Continued										
KT 43		0	236	4897	87	--	--	--	--	--
KT 44		0	100	1606	115	<1.0	0.8	2.6	3.3	<1.0
WARREN--Continued										
WR 13		0	38	4328	69	--	--	--	--	--

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	STATION	NUMBER	GEO- LOGIC UNIT	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
MIDDLESEX COUNTY								
CHESTER								
CH 269	412252072304101	300NCBC	89-08-15		128	7.60	16.0	5.1
CH 270	412430072305401	300NCBC	89-08-29		97	8.80	12.0	0.2
DEEP RIVER								
DR 21	412244072243801	300NCBC	88-11-15		236	6.40	12.5	7.6
DR 22	412252072242701	300NCBC	88-11-15		77	5.90	11.5	7.2
DURHAM								
D 126	412630072401401	300NCBC	88-10-06		67	5.50	11.0	6.2
EAST HADDAM								
EHD 331	412651072223701	300NCBC	88-10-12		148	8.30	12.5	0.3
PORTLAND								
P 112	413731072373403	112DFS	89-09-06		82	6.00	13.5	--
P 114	413348072353001	300NCBC	88-10-04		274	8.30	12.0	0.3
P 115	413557072343601	300NCBC	88-10-04		133	6.40	12.0	5.4
P 116	413424072334001	300NCBC	89-01-04		125	7.40	11.5	0.4
NEW HAVEN COUNTY								
CHESHIRE								
CS 205	413301072530301	231NHVN	89-07-25		283	7.10	12.0	7.0
GUILFORD								
G 404	412354072422101	231EBRL	89-08-15		326	8.00	14.0	1.4
G 405	412308072431901	231EBRL	89-08-29		384	8.20	13.0	1.0
G 406	412247072434801	231EBRL	89-09-05		150	5.60	11.5	8.2
MIDDLEBURY								
MD 10	413110073063501	300NCBC	89-08-28		190	8.10	14.0	0.2
MD 11	413112073063101	300NCBC	89-08-28		176	7.60	13.5	0.2
WALLINGFORD								
WLD 276	412458072471401	231NHVN	89-07-18		279	7.80	13.5	4.1
WLD 277	412908072445201	231SLMD	89-08-30		400	7.80	13.5	6.5
WOLCOTT								
WC 36	413806072565201	300NCBC	89-08-23		124	8.20	14.5	0.9
NEW LONDON COUNTY								
NORTH STONINGTON								
NSN 76	412536071481401	300NCBC	88-11-15		87	6.10	11.0	5.6
PRESTON								
PS 140	413241071575101	300NCBC	89-08-10		131	8.30	16.0	0.8
SALEM								
SM 8	412857072155901	300NCBC	88-10-12		159	7.70	11.0	0.7

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CAC03	CAR- BONATE WATER WH IT FIELD MG/L AS C03	BICAR- BONATE WATER WH IT FIELD MG/L AS HC03	RADON 222 DISSOLV COUNT. ERROR (PC/L)	RADON 228 DIS- SOLVED (PC/L AS RA-228)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
MIDDLESEX COUNTY							
CHESTER--Continued							
CH 269	86	49	0	60	4000	44	--
CH 270	83	29	0	35	1052	45	--
DEEP RIVER --Continued							
DR 21	147	36	0	44	16111	97	<1.0
DR 22	60	13	0	16	18203	141	<1.0
DURHAM--Continued							
D 126	38	5	0	6	34070	191	<1.0
EAST HADDAM--Continued							
EHD 331	110	48	3	53	1180	30	--
PORTLAND--Continued							
P 112	51	8	0	9	303	29	--
P 114	165	117	0	143	1063	29	--
P 115	95	37	0	45	4113	67	--
P 116	84	39	0	47	891	21	--
NEW HAVEN COUNTY							
CHESHIRE--Continued							
CS 205	192	102	0	125	1289	117	--
GUILFORD--Continued							
G 404	190	142	0	173	549	30	<1.0
G 405	237	222	0	270	404	60	--
G 406	100	22	0	27	254	56	--
MIDDLEBURY--Continued							
MD 10	122	66	0	81	1600	90	<1.0
MD 11	121	67	0	82	4937	166	--
WALLINGFORD--Continued							
WLD 276	203	119	0	145	1244	59	--
WLD 277	253	169	0	206	3391	119	--
WOLCOTT--Continued							
WC 36	89	57	0	69	342	44	--
NEW LONDON COUNTY							
NORTH STONINGTON--Continued							
NSN 76	61	16	0	19	32949	199	<1.0
PRESTON--Continued							
PS 140	96	42	0	51	4109	143	--
SALEM--Continued							
SM 8	95	44	0	54	680	35	--

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	URANIUM NATURAL TOTAL (UG/L AS U)
MIDDLESEX COUNTY							
CHESTER--Continued							
CH 269	--	--	--	--	--	<1.0	--
CH 270	--	--	--	--	--	--	--
DEEP RIVER--Continued							
DR 21	--	12	--	15	--	7.9	--
DR 22	--	8.8	--	9.7	--	2.2	--
DURHAM--Continued							
D 126	--	11	--	12	--	3.3	--
EAST HADDAM--Continued							
EHD 331	--	1.9	--	2.2	--	<1.0	--
PORTLAND--Continued							
P 112	2.5	1.7	6.9	2.1	8.7	--	--
P 114	--	7.9	--	10	--	13	--
P 115	--	4.5	--	5.1	--	<1.0	--
P 116	--	3.7	--	3.1	--	<1.0	--
NEW HAVEN COUNTY							
CHESHIRE--Continued							
CS 205	--	--	--	--	--	--	--
GUILFORD--Continued							
G 404	<0.4	2.6	<0.4	3.0	<0.4	<1.0	1.1
G 405	--	--	--	--	--	--	--
G 406	<0.4	1.6	<0.4	2.0	<0.4	<1.0	<1.0
MIDDLEBURY--Continued							
MD 10	--	--	--	--	--	--	--
MD 11	--	--	--	--	--	<1.0	--
WALLINGFORD--Continued							
WLD 276	--	--	--	--	--	--	--
WLD 277	--	--	--	--	--	--	--
WOLCOTT--Continued							
WC 36	--	--	--	--	--	<1.0	--
NEW LONDON COUNTY							
NORTH STONINGTON--Continued							
NSN 76	--	8.0	--	8.8	--	1.8	--
PRESTON--Continued							
PS 140	--	--	--	--	--	--	--
SALEM--Continued							
SM 8	--	1.4	--	1.6	--	<1.0	--

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER	STATION NUMBER	GEO- LOGIC UNIT	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3	CAR- BONATE WATER WH IT FIELD MG/L AS CO3	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	RADON 222 DISSOLV COUNT. ERROR (PC/L)	
TOLLAND COUNTY												
BOLTON												
BO 10	414741072281201	300NCBC	88-10-06	--	--	--	--	--	--	10787	89	
			88-10-21	--	--	--	--	--	--	18470	137	
			88-10-21	--	--	--	--	--	--	19900	432	
			88-11-03	--	--	--	--	--	--	13560	130	
			88-11-03	--	--	--	--	--	--	13824	111	
			88-11-03	--	--	--	--	--	--	12607	108	
			88-11-17	--	--	--	--	--	--	12852	102	
			88-11-17	--	--	--	--	--	--	10368	91	
			88-12-02	--	--	--	--	--	--	13614	178	
			88-12-02	--	--	--	--	--	--	12642	145	
			88-12-02	--	--	--	--	--	--	11563	106	
			88-12-16	--	--	--	--	--	--	17933	133	
			88-12-16	--	--	--	--	--	--	17864	141	
			88-12-16	--	--	--	--	--	--	19005	168	
			88-12-30	--	--	--	--	--	--	16574	96	
			88-12-30	--	--	--	--	--	--	15255	93	
			88-12-30	--	--	--	--	--	--	13351	98	
			89-01-13	--	--	--	--	--	--	19184	150	
			89-01-13	--	--	--	--	--	--	19583	162	
			89-01-13	--	--	--	--	--	--	16672	114	
			89-01-30	--	--	--	--	--	--	16730	146	
			89-01-30	--	--	--	--	--	--	17973	129	
			89-01-30	--	--	--	--	--	--	17868	140	
			89-02-15	--	--	--	--	--	--	16024	148	
			89-02-15	--	--	--	--	--	--	16810	142	
			89-02-15	--	--	--	--	--	--	14450	102	
			89-02-28	--	--	--	--	--	--	12696	140	
			89-02-28	--	--	--	--	--	--	13614	108	
			89-03-13	--	--	--	--	--	--	14599	59	
			89-03-13	--	--	--	--	--	--	12773	152	
			89-03-13	--	--	--	--	--	--	10909	100	
			89-03-27	626	5.90	11.0	6.0	19	0	23	15349	177
			89-03-27	626	5.90	11.0	6.0	19	0	23	14447	146
			89-03-27	626	5.90	11.0	6.0	19	0	23	12146	98
			89-03-27	626	5.90	11.0	6.0	19	0	23	15231	274
			89-04-10	--	--	--	--	--	--	--	13407	206
			89-04-10	--	--	--	--	--	--	--	9991	82
			89-04-10	--	--	--	--	--	--	--	12889	203
			89-04-24	--	--	--	--	--	--	--	12666	114
			89-04-24	--	--	--	--	--	--	--	14029	180
			89-04-24	--	--	--	--	--	--	--	13401	150
			89-05-08	--	--	--	--	--	--	--	20495	265
			89-05-08	--	--	--	--	--	--	--	16207	192
			89-05-08	--	--	--	--	--	--	--	16560	139
			89-05-23	--	--	--	--	--	--	--	13106	144
			89-05-23	--	--	--	--	--	--	--	14062	134
			89-05-23	--	--	--	--	--	--	--	17109	198
			89-06-05	--	--	--	--	--	--	--	16942	148
			89-06-05	--	--	--	--	--	--	--	16956	205
			89-06-05	--	--	--	--	--	--	--	15487	156
			89-06-20	--	--	--	--	--	--	--	16341	200
			89-06-20	--	--	--	--	--	--	--	17787	169
			89-06-20	--	--	--	--	--	--	--	15106	314
			89-07-03	--	--	--	--	--	--	--	19035	204
			89-07-03	--	--	--	--	--	--	--	18914	162
			89-07-03	--	--	--	--	--	--	--	15228	232
			89-07-20	--	--	--	--	--	--	--	18436	222
			89-07-20	--	--	--	--	--	--	--	19404	467
			89-07-26	--	--	--	--	--	--	--	25747	495
			89-07-26	--	--	--	--	--	--	--	27079	321
			89-08-02	490	6.20	13.0	5.6	23	0	28	17334	311
			89-08-02	490	6.20	13.0	5.6	23	0	28	16305	388
			89-08-09	--	--	--	--	22	0	27	22965	325
			89-08-09	--	--	--	--	22	0	27	21987	281
			89-08-16	257	6.40	13.0	11.0	22	0	27	19052	399

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT- I- FIER		STATION	NUMBER	GEO- LOGIC UNIT	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
TOLLAND COUNTY											
HEBRON											
HB	39	413640072200601	300NCBC	88-10-12	124	8.10	11.0	3.3	84	43	
MANSFIELD											
MS	48	414412072121301	300NCBC	88-10-20	295	7.90	14.0	0.3	171	69	
MS	49	414427072125001	300NCBC	88-10-20	197	8.10	13.0	0.4	122	85	
MS	53	414906072113501	300NCBC	89-07-31	156	7.30	12.5	4.5	107	48	
STAFFORD											
STF	25	415706072161301	300NCBC	88-10-05	230	5.70	10.5	1.2	143	11	
TOLLAND											
TO	9	415106072203501	300NCBC	89-01-25	189	8.20	8.5	0.4	108	52	
WINDHAM COUNTY											
ASHFORD											
AF	15	415621072121301	300NCBC	88-10-20	276	7.70	10.0	0.7	146	78	
AF	16	415045072073101	300NCBC	88-10-20	344	6.80	12.0	5.0	188	79	
AF	17	415226072112001	300NCBC	89-08-30	195	6.80	12.0	0.2	127	44	
BROOKLYN											
BK	130	414616071562301	300NCBC	89-03-10	321	5.90	9.5	9.0	188	16	
CANTERBURY											
CY	144	414051072005001	300NCBC	89-08-10	165	6.60	12.5	1.2	111	57	
CY	145	413917072033601	300NCBC	89-08-11	227	--	11.5	7.8	128	58	
KILLINGLY											
KI	388	415126071552101	300NCBC	89-08-11	119	7.70	11.5	0.7	84	36	
POMFRET											
PO	111	415303072022301	300NCBC	88-10-05	156	6.10	11.5	6.2	119	14	
SCOTLAND											
SC	27	414211072044301	300NCBC	89-08-24	159	7.90	12.5	0.9	96	46	
THOMPSON											
TH	58	415755071500001	300NCBC	88-10-05	123	6.80	11.0	8.5	84	28	
TH	59	415950071530101	300NCBC	88-10-05	121	7.90	11.0	0.4	86	55	
TH	60	415848071500501	300NCBC	89-08-14	154	8.40	15.0	1.5	94	60	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

LOCAL IDENT-1-FIER	CAR-BONATE WATER WH IT FIELD MG/L AS CO3	BICAR-BONATE WATER WH IT FIELD MG/L AS HCO3	RADON 222 DISSOLV COUNT. DISSOLV (PC/L)	RADON 228 DIS-SOLVED (PCI/L AS RA-228)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
TOLLAND COUNTY								
HEBRON--Continued								
HB 39	0	53	3794	60	--	6.0	4.6	5.3 2.3
MANSFIELD--Continued								
MS 48	0	84	3055	73	--	9.2	3.9	5.1 <1.0
MS 49	0	104	389	18	--	4.6	3.3	4.1 <1.0
MS 53	0	59	3292	70	--	--	--	-- --
STAFFORD--Continued								
STF 25	0	14	193	12	--	18	16	19 7.3
TOLLAND--Continued								
TO 9	0	64	1158	40	<1.0	2.0	2.7	3.3 <1.0
WINDHAM COUNTY								
ASHFORD--Continued								
AF 15	0	95	468	18	<1.0	0.8	1.3	1.6 <1.0
AF 16	0	96	9900	121	--	13	6.8	9.0 4.9
AF 17	0	54	720	39	--	--	--	-- <1.0
BROOKLYN--Continued								
BK 130	0	20	808	32	<1.0	1.7	4.3	5.8 <1.0
CANTERBURY--Continued								
CY 144	0	70	11457	312	--	--	--	-- <1.0
CY 145	0	71	7150	111	--	--	--	-- 2.4
KILLINGLY--Continued								
KI 388	0	44	3558	80	--	--	--	-- --
POMFRET--Continued								
PO 111	0	17	25115	178	--	0.6	8.5	11 <1.0
SCOTLAND--Continued								
SC 27	0	56	8486	208	--	--	--	-- <1.0
THOMPSON--Continued								
TH 58	0	34	299	20	--	<0.4	1.7	1.9 <1.0
TH 59	0	67	783	38	<1.0	1.0	1.9	2.2 <1.0
TH 60	0	73	1769	71	--	--	--	-- --

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 southwest of Wauregan and 1.5 mi northwest of Central Village.

PERIOD OF RECORD.--Precipitation events November 1982 to current year.

INSTRUMENTATION.-- The wetfall collector is a Geotech Model 0600* automatic wet/dry sensing precipitation collector. A sensor on the collector detects the occurrence of precipitation and activates a motor that removes the cover from the wetfall collection vessel. When the precipitation ceases, the cycle is reversed and the cover is replaced. The collection vessel is polyethylene and has a collection diameter of 11.2 inches and a capacity of 3.5 gallons. The precipitation gage is comprised of a straight-sided funnel 8 inches in diameter which drains into an 8 ft section of 3 inch diameter plastic pipe. Attached to the pipe is a water stage recorder which has been calibrated to the funnel and pipe. Ground level from topographic map is 130 ft. Collector and precipitation gage are 14 ft. above ground level.

REMARKS.--Inches of precipitation is reported for the period of sampling. During periods of snow, no records of precipitation quantity are reported because the precipitation gage does not accurately measure snowfall. Precipitation samples are normally collected within 24 hrs of the end of the storm event, and are immediately analyzed for pH and specific conductance, and preserved and processed for chemical analyses.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)
88/10/02--88/10/03	0.49	25	4.30
88/10/07--88/10/08	0.78	32	4.20
88/10/20--88/10/22	1.58	13	4.70
88/11/01--88/11/02	3.66	10	4.80
88/11/05	0.52	16	4.90
88/11/10	0.20	77	3.90
88/11/13		16	4.80
88/11/17	0.80	16	4.60
88/11/20	3.33	7	4.90
88/11/27--88/11/28	1.34	9	4.80
88/12/13	**	11	4.80
88/12/24--88/12/25	0.71	30	4.40
88/12/28	0.33	31	4.80
89/01/06--89/01/08	0.04	56	4.60
89/01/12	0.45	19	4.60
89/01/26	0.45	48	4.10
89/01/29--89/01/30	0.27	31	4.20
89/02/03--89/02/05	**	37	4.20
89/02/13--89/02/15	0.86	36	4.20
89/02/21--89/02/23	2.11	15	4.70
89/02/24--89/02/26	**	24	4.30
89/03/12	0.18	72	3.91
89/03/20--89/03/21	0.73	16	4.56
89/03/24--89/03/25	1.50	7	4.94
89/03/30--89/03/31	1.26	26	4.31
89/04/03--89/04/06	1.85	24	4.39
89/04/07--89/04/08	0.85	41	4.11
89/04/15--89/04/16	1.40	25	4.35
89/04/29--89/04/30	2.60	12	4.64
89/05/01--89/05/02	1.27	26	4.54
89/05/05--89/05/06	1.12	46	4.26
89/05/10--89/05/12	2.34	20	4.33
89/05/24	0.87	60	3.95
89/05/27	0.52	37	4.22
89/06/02--89/06/06	0.64	55	4.01
89/06/06--89/06/10	2.57	24	4.36
89/06/14--89/06/15	0.91	34	4.17
89/06/17--89/06/18	0.56	15	4.53
89/06/22	0.89	29	4.31
89/06/23--89/06/24	0.36	26	4.26
89/07/05--89/07/06	0.75	6	5.37
89/07/07	0.08	44	4.36
89/07/10	0.09	70	4.08
89/07/14--89/07/17	4.70	15	4.61
89/07/20--89/07/21	0.41	58	3.96
89/07/27	0.62	72	3.77
89/08/06	0.11	53	3.99
89/08/07	0.95	32	4.22
89/08/11--89/08/13	5.74	9	4.89
89/08/16	0.35	17	3.63
89/08/29--89/08/30	0.81	37	4.08
89/09/14--89/09/17	2.18	4	5.27
89/09/18--89/09/21	0.90	14	4.51
89/09/22--89/09/24	0.45	18	4.63
89/09/26	1.05	3	5.29

**SNOW -- NO INFORMATION ON QUANTITY

* The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

THAMES RIVER BASIN

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414400071554601 ATMOSPHERIC DEPOSITION SITE NEAR WAUREGAN, CT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

STORM EVENT WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV								
01-02	3.66	10	4.76	0.07	0.03	0.28	0.03	0.78
FEB								
13-15	0.86	36	4.24	0.30	0.06	0.42	0.15	3.2
MAR								
30-31	1.26	26	4.31	0.09	0.02	0.13	0.03	2.1
APR								
03-06	1.85	24	4.39	0.10	0.02	0.16	0.04	1.7
APR								
15-16	1.40	25	4.35	0.09	0.02	0.14	0.03	2.3
APR								
29-30	2.60	12	4.64	0.12	0.02	0.07	0.03	0.90
MAY								
01-02	1.27	26	4.54	0.21	0.12	1.0	0.11	2.3
JUN								
14-15	0.91	34	4.17	0.16	0.03	0.09	0.04	2.7
JUL								
05-06	0.75	6	5.37	0.10	0.02	0.19	0.08	0.56
JUL								
14-17	4.70	15	4.61	0.10	<0.01	0.10	0.22	1.2
AUG								
11-13	5.74	9	4.89	0.09	0.03	0.25	0.03	0.61
SEP								
14-17	2.18	4	5.27	0.04	0.02	0.15	<0.01	0.27

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
NOV							
01-02	0.46	<0.01	<0.010	0.080	0.093	0.034	<0.010
FEB							
13-15	0.73	0.02	0.13	0.570	--	0.320	0.020
MAR							
30-31	0.19	0.01	<0.010	0.350	--	0.137	<0.010
APR							
03-06	0.29	0.01	<0.010	0.330	--	0.179	<0.010
APR							
15-16	0.20	0.02	<0.010	0.200	--	0.169	<0.010
APR							
29-30	0.15	<0.01	<0.010	0.160	--	0.064	<0.010
MAY							
01-02	1.7	0.03	<0.010	0.210	--	0.219	<0.010
JUN							
14-15	0.22	0.02	<0.010	0.350	--	0.174	<0.010
JUL							
05-06	0.23	0.02	<0.010	0.080	--	0.087	0.030
JUL							
14-17	0.11	0.01	<0.010	0.300	--	0.169	0.060
AUG							
11-13	0.41	<0.01	<0.010	0.080	--	0.023	<0.010
SEP							
14-17	0.23	0.02	<0.010	0.050	--	0.025	<0.010

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 northeast of North Westchester and 2.9 mi southeast of Marlborough.

PERIOD OF RECORD.--Precipitation events May 1983 to current year.

INSTRUMENTATION.-- The wetfall collector is a Geotech Model 0600* automatic wet/dry sensing precipitation collector. A sensor on the collector detects the occurrence of precipitation and activates a motor that removes the cover from the wetfall collection vessel. When the precipitation ceases, the cycle is reversed and the cover is replaced. The collection vessel is polyethylene and has a collection diameter of 11.2 inches and a capacity of 3.5 gallons. The precipitation gage is comprised of a straight-sided funnel 8 inches in diameter which drains into an 8 ft section of 3 inch diameter plastic pipe. Attached to the pipe is a water stage recorder which has been calibrated to the funnel and pipe. Ground level from topographic map is 260 ft. Collector and precipitation gage are 10 ft. above ground level.

REMARKS.--Inches of precipitation is reported for the period of sampling. During periods of snow, no records of precipitation quantity are reported because the precipitation gage does not accurately measure snowfall. Precipitation samples are normally collected within 24 hrs of the end of the storm event, and are immediately analyzed for pH and specific conductance, and preserved and processed for chemical analyses.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)
88/10/02--88/10/03	0.39	15	4.50
88/10/05	0.09	20	4.50
88/10/07--88/10/08	1.11	22	4.40
88/10/21--88/10/22	1.61	11	4.90
88/11/01--88/11/02	3.00	8	4.90
88/11/05	0.41	18	4.80
88/11/13	1.02	24	4.60
88/11/17	0.98	19	4.50
88/11/20	3.19	9	4.80
88/11/27--88/11/28	1.31	11	4.80
88/12/13	**	17	4.60
88/12/24--88/12/25	0.75	32	4.30
88/12/28	0.41	24	4.70
89/01/06--89/01/08	0.15	86	3.80
89/01/12	0.29	20	4.50
89/01/26	0.58	49	4.10
89/01/29--89/01/30	0.26	27	4.30
89/02/03--89/02/05	**	44	4.10
89/02/13--89/02/15	0.83	69	3.90
89/02/21--89/02/23	2.24	23	4.50
89/02/24--89/02/26	**	22	4.40
89/03/05--89/03/06	**	54	4.07
89/03/18--89/03/19	0.74	48	4.10
89/03/20--89/03/21	0.89	16	4.53
89/03/24--89/03/25	1.30	10	4.77
89/03/30--89/03/31	1.63	30	4.26
89/04/03--89/04/06	1.17	25	4.36
89/04/07--89/04/08	1.03	32	4.21
89/04/15--89/04/16	1.23	24	4.36
89/04/29--89/04/30	0.93	29	4.29
89/05/01--89/05/02	1.46	23	4.51
89/05/05--89/05/06	1.34	54	4.15
89/05/16	0.66	22	4.44
89/05/21	0.10	80	3.83
89/05/24	1.99	25	4.37
89/05/27	0.68	30	4.26
89/06/02--89/06/06	0.80	37	4.15
89/06/06--89/06/10	5.08	44	4.03
89/06/13	0.66	37	4.11
89/06/14--89/06/15	1.20	37	4.16
89/06/17--89/06/18	1.02	32	4.61
89/06/23--89/06/24	0.79	13	4.62
89/07/05--89/07/06	2.12	4	5.20
89/07/07	1.63	38	4.30
89/07/10	0.88	40	4.24
89/07/14--89/07/17	1.68	11	4.64
89/07/20--89/07/21	0.20	49	4.08
89/07/27	0.56	51	3.94
89/08/11--89/08/13	7.92	8	4.84
89/08/16	0.20	133	3.62
89/08/21	0.40	56	4.07
89/08/29--89/08/30	1.80	70	3.83
89/09/14--89/09/17	1.36	9	4.81
89/09/18--89/09/21	1.69	13	4.65
89/09/22--89/09/24	0.45	22	4.40
89/09/26	0.89	4	5.24

** SNOW -- NO INFORMATION ON QUANTITY

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CONNECTICUT RIVER BASIN

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413538072253501 ATMOSPHERIC DEPOSITION SITE AT NORTH WESTCHESTER, CT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

STORM EVENT WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 01-02	3.00	8	4.85	0.08	0.02	0.21	0.04	0.57
FEB 13-15	0.83	69	3.93	0.34	0.14	0.89	0.22	6.5
MAR 30-31	1.63	30	4.26	0.08	0.02	0.13	0.04	2.3
APR 03-06	1.17	25	4.36	0.09	0.02	0.12	0.02	1.9
APR 15-16	0.66	24	4.36	0.08	0.01	0.18	0.02	2.0
APR 29-30	0.93	29	4.29	0.19	0.03	0.16	0.11	2.3
MAY 01-02	1.46	54	4.15	0.17	0.09	0.79	0.08	2.2
JUN 14-15	1.20	37	4.16	0.28	0.04	0.10	0.10	3.3
JUL 05-06	2.12	4	5.20	0.06	0.01	0.08	0.04	--
JUL 14-17	1.68	11	4.64	0.27	<0.01	0.05	0.01	0.74
AUG 11-13	7.92	8	4.84	0.09	0.03	0.16	0.02	0.55
SEP 14-17	1.36	9	4.81	0.05	0.02	0.12	<0.01	0.67

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
NOV 01-02	0.23	<0.01	<0.010	0.080	0.077	0.038	<0.010
FEB 13-15	1.7	0.08	<0.010	0.970	--	0.140	<0.010
MAR 30-31	0.22	0.01	<0.010	0.400	--	0.168	<0.010
APR 03-06	0.19	0.01	<0.010	0.340	--	0.161	<0.010
APR 15-16	0.15	<0.01	<0.010	0.210	--	0.146	<0.010
APR 29-30	0.23	<0.01	<0.010	0.430	--	0.172	0.020
MAY 01-02	1.2	0.02	0.94	<0.010	--	0.203	<0.010
JUN 14-15	0.29	0.03	<0.010	0.430	--	0.272	<0.010
JUL 05-06	--	--	--	--	--	0.047	--
JUL 14-17	0.07	<0.01	<0.010	0.180	--	0.046	<0.010
AUG 11-13	0.27	<0.01	<0.010	0.070	--	0.036	<0.010
SEP 14-17	0.19	0.02	<0.010	0.110	--	0.079	<0.010

CHEMICAL QUALITY OF PRECIPITATION

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 center of earthen dam of Morris Reservoir 3 mi northwest of Thomaston and 5 mi southeast of Litchfield.

PERIOD OF RECORD.--Precipitation events December 1982 to current year.

INSTRUMENTATION.-- The wetfall collector is a Geotech Model 0600* automatic wet/dry sensing precipitation collector. A sensor on the collector detects the occurrence of precipitation and activates a motor that removes the cover from the wetfall collection vessel. When the precipitation ceases, the cycle is reversed and the cover is replaced. The collection vessel is polyethylene and has a collection diameter of 11.2 inches and a capacity of 3.5 gallons. The precipitation gage is comprised of a straight-sided funnel 8 inches in diameter which drains into an 8 ft section of 3 inch diameter plastic pipe. Attached to the pipe is a water stage recorder which has been calibrated to the funnel and pipe. Ground level from topographic map is 650 ft. Collector and precipitation gage are 9 ft. above ground level.

REMARKS.--Inches of precipitation is reported for the period of sampling. During periods of snow, no records of precipitation quantity are reported because the precipitation gage does not accurately measure snowfall. Precipitation samples are normally collected within 24 hrs of the end of the storm event, and are immediately analyzed for pH and specific conductance, and preserved and processed for chemical analyses.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)
88/10/02--88/10/03	0.85	26	4.30
88/10/07--88/10/08	0.68	24	4.30
88/10/18	0.12	54	4.00
88/10/21--88/10/22	1.85	10	4.80
88/11/01--88/11/02	2.24	8	4.80
88/11/05	2.31	10	4.90
88/11/13	0.93	15	4.60
88/11/17	0.91	16	4.60
88/11/20	4.02	9	4.80
88/11/27--88/11/28	1.74	9	4.90
88/12/13	**	16	4.90
88/12/24--88/12/25	0.80	30	4.30
88/12/28	0.52	24	4.50
89/01/06--89/01/08	0.22	45	4.10
89/01/12	0.47	27	4.40
89/01/14--89/01/15	0.56	30	4.30
89/01/19	0.07	55	4.30
89/01/26	0.45	49	4.10
89/01/29--89/01/30	0.24	29	4.20
89/02/03--89/02/05	**	82	3.80
89/02/13--89/02/15	0.65	45	4.10
89/02/21--89/02/23	1.08	26	4.40
89/02/24--89/02/26	**	35	4.20
89/03/05--89/03/06	**	36	4.17
89/03/12	0.15	72	3.87
89/03/18--89/03/19	0.37	71	3.92
89/03/20--89/03/21	0.64	46	4.62
89/03/24--89/03/25	0.91	11	4.73
89/03/30--89/03/31	1.78	39	4.16
89/04/03--89/04/06	1.24	46	4.09
89/04/07--89/04/08	0.23	31	4.22
89/04/15--89/04/16	1.40	26	4.31
89/04/29--89/04/30	0.46	37	4.16
89/05/01--89/05/02	2.35	15	4.58
89/05/05--89/05/06	2.17	28	4.32
89/05/10--89/05/12	2.54	23	4.35
89/05/16	2.39	21	4.46
89/05/21	0.12	216	3.40
89/05/24	2.70	16	4.55
89/05/27	0.25	61	3.98
89/06/02--89/06/06	0.26	70	3.88
89/06/06--89/06/10	2.76	28	4.27
89/06/13	0.60	50	3.98
89/06/14--89/06/15	0.85	31	4.20
89/06/17--89/06/18	0.15	33	4.22
89/06/23--89/06/24	1.48	31	4.23
89/07/05--89/07/06	0.47	13	4.80
89/07/07	0.32	47	4.19
89/07/10	1.81	49	4.12
89/07/14--89/07/17	0.17	16	4.46
89/07/20--89/07/21	1.67	19	4.47
89/07/27	0.67	51	3.90
89/08/06	0.15	42	4.00
89/08/11--89/08/13	5.05	7	4.90
89/08/16	0.16	50	4.02
89/08/21	0.78	43	4.06
89/08/29--89/08/30	1.28	56	3.91
89/09/14--89/09/17	2.06	16	4.53
89/09/18--89/09/21	2.62	11	4.81
89/09/22--89/09/24	0.98	46	4.22
89/09/26	0.95	8	4.89

**SNOW -- NO INFORMATION ON QUANTITY

* The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

HOUSATONIC RIVER BASIN

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414029073083501 ATMOSPHERIC DEPOSITION SITE NEAR THOMASTON, CT--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

STORM EVENT WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 01-02	2.24	8	4.80	0.07	0.01	0.11	0.02	0.58
FEB 13-15	0.65	45	4.10	0.21	0.05	0.42	0.15	3.6
MAR 30-31	1.78	39	4.16	0.09	0.02	0.17	0.05	3.2
APR 03-06	1.24	46	4.09	0.17	0.04	0.14	0.03	2.9
APR 15-16	1.40	26	4.31	0.10	0.01	0.13	0.02	2.0
APR 29-30	0.46	37	4.16	0.16	0.02	0.20	0.04	2.9
MAY 01-02	2.35	15	4.58	0.10	0.01	0.15	0.06	1.1
JUN 14-15	0.85	31	4.20	0.10	0.02	0.09	0.03	2.5
AUG 11-13	5.05	7	4.90	0.13	0.02	0.09	0.02	0.45
SEP 14-17	2.06	16	4.53	0.06	0.02	0.07	0.02	1.6

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
NOV 01-02	0.13	<0.01	<0.010	0.100	0.101	0.030	<0.010
FEB 13-15	0.70	0.01	0.13	0.700	--	0.210	<0.010
MAR 30-31	0.28	<0.01	<0.010	0.450	--	0.225	<0.010
APR 03-06	0.23	0.02	<0.010	<0.010	--	0.293	<0.010
APR 15-16	0.16	0.01	<0.010	0.320	--	0.136	<0.010
APR 29-30	0.27	<0.01	0.97	<0.010	--	0.175	<0.010
MAY 01-02	0.18	0.01	<0.010	0.180	--	0.074	<0.010
JUN 14-15	0.14	0.02	<0.010	0.340	--	0.146	<0.010
AUG 11-13	0.16	0.01	<0.010	0.060	--	0.012	<0.010
SEP 14-17	0.07	<0.01	<0.010	0.220	--	0.147	<0.010

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND SOUND

411535072325701 ATMOSPHERIC DEPOSITION SITE NEAR CLINTON, CT

LOCATION.--Lat 41°15'35", long 72°32'57", Middlesex County, Hydrologic Unit 01100004. At abandoned water-treatment site in Hammonasset State Park 1.5 mi southwest of Clinton and 2 mi southeast of Madison.

PERIOD OF RECORD.--Precipitation events February 1989 to current year.

INSTRUMENTATION.--The wetfall collector is a Geotech Model 0600* automatic wet/dry sensing precipitation collector. A sensor on the collector detects the occurrence of precipitation and activates a motor that removes the cover from the wetfall collection vessel. When the precipitation ceases, the cycle is reversed and the cover is replaced. The collection vessel is polyethylene and has a collection diameter of 11.2 inches and a capacity of 3.5 gallons. Precipitation gage is a clear plastic wedge-shaped tube, 13 inches long with an opening of 2.5 inches by 2 inches. The tube is calibrated in increments of 0.01 inch. Ground level from topographic map is 10 ft. Collector and precipitation gage are 12 ft above ground level.

REMARKS.--Inches of precipitation is reported for the period of sampling. During periods of snow, no records of precipitation quantity are reported because the precipitation gage does not accurately measure snowfall. Precipitation samples are normally collected within 24 hrs of the end of the storm event, and are immediately analyzed for pH and specific conductance, and preserved and processed for chemical analyses.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)
89/02/13--89/02/15	0.42	46	4.14
89/02/21--89/02/23	1.50	23	4.51
89/02/24--89/02/26	**	54	4.00
89/03/05--89/03/06	0.09	49	4.07
89/03/12	0.06	100	3.76
89/03/18--89/03/19	0.41	44	4.12
89/03/20--89/03/21	0.73	17	4.50
89/03/24--89/03/25	1.60	13	4.69
89/03/30--89/03/31	1.24	23	4.37
89/04/03--89/04/06	0.90	28	4.33
89/04/07--89/04/08	0.84	30	4.25
89/04/15--89/04/16	1.34	24	4.38
89/04/29--89/04/30	1.21	16	4.59
89/05/01--89/05/02	1.12	20	4.58
89/05/05--89/05/06	0.52	69	4.11
89/05/10--89/05/12	2.23	25	4.36
89/05/16	0.64	29	4.30
89/05/21	0.06	111	3.65
89/05/24	0.52	30	4.29
89/05/27	0.29	59	3.97
89/05/31--89/06/01	0.22	52	4.03
89/06/02--89/06/06	0.31	28	4.62
89/06/06--89/06/10	2.70	24	4.38
89/06/13	0.45	29	4.25
89/06/14--89/06/15	0.92	31	4.21
89/06/17--89/06/18	0.26	26	4.37
89/06/23--89/06/24	0.12	19	4.46
89/07/05--89/07/06	2.02	6	5.30
89/07/07	0.49	31	4.80
89/07/10	1.51	68	3.92
89/07/14--89/07/17	1.55	17	4.52
89/07/20--89/07/21	0.26	34	4.42
89/08/07	0.11	91	3.77
89/08/11--89/08/13	6.28	8	4.99
89/08/21	0.15	73	3.86
89/08/29--89/08/30	1.26	59	3.85
89/09/14--89/09/17	1.90	12	4.66
89/09/18--89/09/21	0.23	8	4.87
89/09/22--89/09/24	0.25	113	4.13
89/09/26	0.88	6	5.32

**SNOW -- NO INFORMATION ON QUANTITY

* The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

411535072325701 ATMOSPHERIC DEPOSITION SITE NEAR CLINTON, CT--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

STORM EVENT WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB 13-15	0.42	46	4.14	0.22	0.16	1.2	0.08	3.1
MAR 30-31	1.24	23	4.37	0.08	0.03	0.22	0.03	1.6
APR 03-06	0.90	28	4.33	0.19	0.04	0.28	0.04	2.1
APR 15-16	1.34	24	4.38	0.09	0.05	0.39	0.03	2.3
APR 29-30	1.50	16	4.59	0.11	0.03	0.22	0.03	1.2
MAY 01-02	1.12	20	4.58	0.13	0.09	0.83	0.05	1.4
JUN 14-15	0.92	31	4.21	0.16	0.03	0.03	0.03	2.4
JUL 05-06	2.02	6	5.30	0.07	0.02	0.20	0.03	0.34
JUL 14-17	1.55	17	4.52	0.12	0.02	0.41	0.08	1.2
AUG 11-13	6.28	8	4.99	0.10	0.04	0.28	0.02	0.45
SEP 14-17	1.90	12	4.66	0.06	0.05	0.34	0.03	0.86

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 13-15	2.4	0.02	0.20	0.620	0.230	<0.010
MAR 30-31	0.36	<0.01	<0.010	0.330	0.104	<0.010
APR 03-06	0.48	<0.01	<0.010	0.420	0.199	<0.010
APR 15-16	0.54	0.01	<0.010	0.160	0.165	<0.010
APR 29-30	0.33	<0.01	<0.010	0.140	0.089	<0.010
MAY 01-02	1.3	0.02	<0.010	0.200	0.132	<0.010
JUN 14-15	0.33	0.01	<0.010	0.350	0.164	<0.010
JUL 05-06	0.25	0.02	<0.010	0.070	0.033	<0.010
JUL 14-17	0.69	0.02	<0.010	0.270	0.057	<0.010
AUG 11-13	0.47	0.02	<0.010	0.060	0.018	<0.010
SEP 14-17	0.55	0.01	<0.010	0.180	0.075	<0.010

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND SOUND

410512073341201 ATMOSPHERIC DEPOSITION SITE AT OLD GREENWICH, CT

LOCATION.--Lat 41°05'12", long 73°34'12", Fairfield County, Hydrologic Unit 01100006. In yard of private residence at entrance to Greenwich Point Park at Old Greenwich.

PERIOD OF RECORD.--Precipitation events February 1989 to current year.

INSTRUMENTATION.--The wetfall collector is a Geotech Model 0600* automatic wet/dry sensing precipitation collector. A sensor on the collector detects the occurrence of precipitation and activates a motor that removes the cover from the wetfall collection vessel. When the precipitation ceases, the cycle is reversed and the cover is replaced. The collection vessel is polyethylene and has a collection diameter of 11.2 inches and a capacity of 3.5 gallons. Precipitation gage is a clear plastic wedge-shaped tube, 13 inches long with an opening of 2.5 inches by 2 inches. The tube is calibrated in increments of 0.01 inch. Ground level from topographic map is 10 ft. Collector and precipitation gage are 4 ft above ground level.

REMARKS.--Inches of precipitation is reported for the period of sampling. During periods of snow, no records of precipitation quantity are reported because the precipitation gage does not accurately measure snowfall. Precipitation samples are normally collected within 24 hrs of the end of the storm event, and are immediately analyzed for pH and specific conductance, and preserved and processed for chemical analyses.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	pH (STANDARD UNITS)
89/02/03--89/02/05	**	67	3.90
89/02/13--89/02/15	1.28	65	4.02
89/02/21--89/02/23	1.88	23	4.42
89/02/24--89/02/26	**	33	4.22
89/03/05--89/03/06	0.21	45	4.17
89/03/12	0.05	143	3.62
89/03/18--89/03/19	0.53	44	4.21
89/03/20--89/03/21	0.29	26	4.54
89/03/24--89/03/25	1.80	20	4.73
89/03/30--89/03/31	1.13	47	4.16
89/04/03--89/04/06	0.96	58	4.02
89/04/07--89/04/08	0.34	65	3.93
89/04/15--89/04/16	1.21	32	4.26
89/04/29--89/04/30	0.65	63	4.05
89/05/01--89/05/02	2.26	21	4.57
89/05/05--89/05/06	0.88	68	4.13
89/05/10--89/05/12	1.53	76	4.15
89/05/16	4.09	19	4.52
89/05/24	1.16	32	4.24
89/05/27	0.16	81	3.85
89/05/31--89/06/01	0.12	65	3.98
89/06/02--89/06/06	0.21	30	4.36
89/06/06--89/06/10	2.49	39	4.30
89/06/13	0.89	25	4.36
89/06/14--89/06/15	0.50	59	3.95
89/06/17--89/06/18	0.13	62	3.94
89/06/22	0.31	33	4.23
89/06/23--89/06/24	0.10	63	3.89
89/07/05--89/07/06	2.04	14	4.73
89/07/07	0.06	58	4.07
89/07/10	0.15	59	4.10
89/07/14--89/07/17	0.56	23	4.44
89/07/20--89/07/21	1.17	33	4.21
89/07/27	0.10	96	3.62
89/08/07	0.22	59	3.95
89/08/11--89/08/13	4.57	12	4.71
89/08/16	0.13	142	3.53
89/08/29--89/08/30	0.24	115	3.64
89/09/14--89/09/17	1.82	37	4.28
89/09/18--89/09/21	1.38	28	4.37
89/09/26	0.61	10	4.93

**SNOW -- NO INFORMATION ON QUANTITY

* The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

LONG ISLAND SOUND

315

410512073341201 ATMOSPHERIC DEPOSITION SITE AT OLD GREENWICH, CT--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

STORM EVENT WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB								
13-15	1.28	65	4.02	0.49	0.23	1.7	0.11	5.1
MAR								
30-31	1.13	47	4.16	0.14	0.17	1.3	0.09	3.8
APR								
03-06	0.96	58	4.02	0.22	0.08	0.51	0.06	5.4
APR								
15-16	1.21	32	4.26	0.11	0.04	0.34	0.03	2.7
APR								
29-30	0.65	63	4.05	0.25	0.23	1.8	0.08	4.7
MAY								
01-02	2.26	21	4.57	0.12	0.10	0.94	0.08	1.6
JUN								
14-15	0.50	59	3.95	0.18	0.10	1.2	0.07	4.5
JUL								
05-06	2.04	14	4.73	0.09	0.04	0.31	0.07	1.1
JUL								
14-17	0.56	23	4.44	0.12	0.10	1.1	0.08	1.6
AUG								
11-13	4.57	12	4.71	0.10	0.05	0.32	0.03	0.78
SEP								
14-17	1.82	37	4.28	0.13	0.23	1.9	0.09	2.6

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB						
13-15	2.4	0.04	<0.010	1.30	0.640	<0.010
MAR						
30-31	2.5	0.03	<0.010	0.510	0.227	<0.010
APR						
03-06	0.86	0.03	<0.010	1.20	0.012	<0.010
APR						
15-16	0.56	<0.01	<0.010	0.340	0.194	<0.010
APR						
29-30	3.3	0.03	0.22	<0.010	0.414	<0.010
MAY						
01-02	1.6	0.01	<0.010	0.130	0.084	<0.010
JUN						
14-15	1.3	0.04	<0.010	0.850	0.236	<0.010
JUL						
05-06	0.50	0.01	<0.010	0.120	0.040	<0.010
JUL						
14-17	1.9	0.02	<0.010	0.190	0.069	<0.010
AUG						
11-13	0.61	0.02	<0.010	0.100	0.016	<0.010
SEP						
14-17	3.1	0.03	<0.010	0.320	0.118	<0.010

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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).

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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